DShield Documentation

Release 0.1

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A Pythonic interface to the Internet Storm Center / DShield API.

CHAPTER 1

DShield documentation

A Pythonic interface to the Internet Storm Center / DShield API.

1.1 DShield documentation

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter(date=None, rows=None, return_format=None)`
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler(return_format=None)`
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

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- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter(date=None, rows=None, return_format=None)`
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler(return_format=None)`
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter(date=None, rows=None, return_format=None)`
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler(return_format=None)`
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter(date=None, rows=None, return_format=None)`
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler(return_format=None)`
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

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- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter(date=None, rows=None, return_format=None)`
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler(return_format=None)`
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter(date=None, rows=None, return_format=None)`
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler(return_format=None)`
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter(date=None, rows=None, return_format=None)`
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler(return_format=None)`
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

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- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter(date=None, rows=None, return_format=None)`
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler(return_format=None)`
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

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- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

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- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter(date=None, rows=None, return_format=None)`
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler(return_format=None)`
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter(date=None, rows=None, return_format=None)`
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler(return_format=None)`
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

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- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter(date=None, rows=None, return_format=None)`
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler(return_format=None)`
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

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- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter(date=None, rows=None, return_format=None)`
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler(return_format=None)`
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter(date=None, rows=None, return_format=None)`
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler(return_format=None)`
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

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- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter(date=None, rows=None, return_format=None)`
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler(return_format=None)`
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

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Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
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- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

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- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources(sort_by=None, limit=None, date=None, return_format=None)`
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`

Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

dshield.**portdate**(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

`dshield.asnum`(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

`dshield.dailysummary`(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.daily404summary`(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.daily404detail`(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.`**`backscatter`**(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **`date`** – optional string (in Y-M-D format) or datetime.date() object
- **`rows`** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.`**`handler`**(*return_format=None*)

Returns the name of the handler of the day.

`dshield.`**`infocon`**(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.`**`ip`**(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **`ip_address`** – a valid IP address

`dshield.`**`port`**(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **`port_number`** – a string or integer port number

`dshield.`**`portdate`**(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **`port_number`** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions
class dshield.**Error**
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format

Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
```

```
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions

The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)

Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.glossary`(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

Indices and tables

- genindex
- modindex
- search

Return Format

Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

Functions

The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter(date=None, rows=None, return_format=None)`
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler(return_format=None)`
Returns the name of the handler of the day.

`dshield.infocon(return_format=None)`
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip(ip_address, return_format=None)`
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port(port_number, return_format=None)`
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate(port_number, date=None, return_format=None)`
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips(sort_by=None, limit=None, date=None, return_format=None)`
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'

- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.webhoneypotsummary`(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.webhoneypotbytype`(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

Exceptions

class `dshield.Error`
Custom exception class.

1.1.2 Indices and tables

- genindex
- modindex
- search

1.1.3 Return Format

Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

1.1.4 Functions

The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)
Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)
Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)
Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)
List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)
API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)
API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

1.1.5 Exceptions

class dshield.**Error**
Custom exception class.

1.2 Indices and tables

- genindex
- modindex
- search

1.3 Return Format

Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

1.4 Functions

The docstrings for these functions are for the most part taken directly from the official API documentation.

dshield.**backscatter**(*date=None*, *rows=None*, *return_format=None*)
Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

dshield.**handler**(*return_format=None*)
Returns the name of the handler of the day.

dshield.**infocon**(*return_format=None*)
Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)
Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)
Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)
Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topports`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.topips`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.sources`(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

`dshield.porthistory`(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)

Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetail-sascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)

Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

dshield.**daily404summary**(*date*, *return_format=None*)

Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

dshield.**daily404detail**(*date*, *limit=None*, *return_format=None*)

Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

dshield.**glossary**(*term=None*, *return_format=None*)

List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

dshield.**webhoneypotsummary**(*date*, *return_format=None*)

API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

dshield.**webhoneypotbytype**(*date*, *return_format=None*)

API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

1.5 Exceptions

class `dshield.`**`Error`**

Custom exception class.

CHAPTER 2

Indices and tables

- genindex
- modindex
- search

CHAPTER 3

Return Format

Just like the DShield API itself, all functions in this library are able to return data in a variety of formats. By default, the library will convert data returned from the API to a native object, either a *dict* or a *list* depending on the function. You can change this behavior by specifying the *return_format* when calling a function. Valid values for the *return_format* parameter are: *dshield.XML*, *dshield.JSON*, *dshield.TEXT*, and *dshield.PHP*. When any of these formats are used, the function will return a string containing the raw data from the API.

To give a simple example:

```
>>> import dshield
>>> dshield.infocon()
{'status': 'green'}
>>> dshield.infocon(dshield.JSON)
'{"status":"green"}'
```

CHAPTER 4

Functions

The docstrings for these functions are for the most part taken directly from the official API documentation.

`dshield.backscatter`(*date=None*, *rows=None*, *return_format=None*)

Returns possible backscatter data.

This report only includes "syn ack" data and is summarized by source port.

Parameters

- **date** – optional string (in Y-M-D format) or datetime.date() object
- **rows** – optional number of rows returned (default 1000)

Returns list – backscatter data.

`dshield.handler`(*return_format=None*)

Returns the name of the handler of the day.

`dshield.infocon`(*return_format=None*)

Returns the current infocon level (green, yellow, orange, red).

`dshield.ip`(*ip_address*, *return_format=None*)

Returns a summary of the information our database holds for a particular IP address (similar to /ipinfo.html).

In the returned data:

Count: (also reports or records) total number of packets blocked from this IP. Attacks: (also targets) number of unique destination IP addresses for these packets.

Parameters **ip_address** – a valid IP address

`dshield.port`(*port_number*, *return_format=None*)

Summary information about a particular port.

In the returned data:

Records: Total number of records for a given date. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters **port_number** – a string or integer port number

`dshield.portdate`(*port_number*, *date=None*, *return_format=None*)

Information about a particular port at a particular date.

If the date is ommited, today's date is used.

Parameters

- **port_number** – a string or integer port number

- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topports**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'targets', 'sources'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**topips**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information about top ports for a particular date with return limit.

Parameters

- **sort_by** – one of 'records', 'attacks'
- **limit** – number of records to be returned
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**sources**(*sort_by=None*, *limit=None*, *date=None*, *return_format=None*)
Information summary from the last 30 days about source IPs with return limit.

Parameters

- **sort_by** – one of 'ip', 'count', 'attacks', 'firstseen', 'lastseen'
- **limit** – number of records to be returned (max 10000)
- **date** – an optional string in 'Y-M-D' format or datetime.date() object

dshield.**porthistory**(*port_number*, *start_date=None*, *end_date=None*, *return_format=None*)
Returns port data for a range of dates.

In the return data:

Records: Total number of records for a given date range. Targets: Number of unique destination IP addresses. Sources: Number of unique originating IPs.

Parameters

- **port_number** – a valid port number (required)
- **start_date** – string or datetime.date(), default is 30 days ago
- **end_date** – string or datetime.date(), default is today

dshield.**asnum**(*number*, *limit=None*, *return_format=None*)
Returns a summary of the information our database holds for a particular ASNUM (similar to /asdetailsascii.html) with return limit.

Parameters **limit** – number of records to be returned (max 2000)

dshield.**dailysummary**(*start_date=None*, *end_date=None*, *return_format=None*)
Returns daily summary totals of targets, attacks and sources. Limit to 30 days at a time. (Query 2002-01-01 to present)

In the return data:

Sources: Distinct source IP addresses the packets originate from. Targets: Distinct target IP addresses the packets were sent to. Reports: Number of packets reported.

Parameters

- **start_date** – string or datetime.date(), default is today
- **end_date** – string or datetime.date(), default is today

`dshield.`**`daily404summary`**(*date*, *return_format=None*)

Returns daily summary information of submitted 404 Error Page Information.

Parameters **date** – string or datetime.date() (required)

`dshield.`**`daily404detail`**(*date*, *limit=None*, *return_format=None*)

Returns detail information of submitted 404 Error Page Information.

Parameters

- **date** – string or datetime.date() (required)
- **limit** – string or int, limit for number of returned items

`dshield.`**`glossary`**(*term=None*, *return_format=None*)

List of glossary terms and definitions.

Parameters **term** – a whole or parital word to "search" in the API

`dshield.`**`webhoneypotsummary`**(*date*, *return_format=None*)

API data for Webhoneypot: Web Server Log Project.

Parameters **date** – string or datetime.date() (required)

`dshield.`**`webhoneypotbytype`**(*date*, *return_format=None*)

API data for Webhoneypot: Attack By Type. We currently use a set of regular expressions to determine the type of attack used to attack the honeypot. Output is the top 30 attacks for the last month.

Parameters **date** – string or datetime.date() (required)

CHAPTER 5

Exceptions

class `dshield.`**`Error`**

Custom exception class.

CHAPTER 6

Indices and tables

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