
Python Digitalocean Documentation

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Submodules

digitalocean.Account module

```
class digitalocean.Account.Account (*args, **kwargs)
    Bases: digitalocean.baseapi.BaseAPI
    classmethod get_object (api_token)
        Class method that will return an Account object.
    load ()
```

digitalocean.Action module

```
class digitalocean.Action.Action (*args, **kwargs)
    Bases: digitalocean.baseapi.BaseAPI
    classmethod get_object (api_token, action_id)
        Class method that will return a Action object by ID.
    load ()
    load_directly ()
    wait (update_every_seconds=1)
        Wait until the action is marked as completed or with an error. It will return True in case of success,
        otherwise False.
    Optional Args:
        update_every_seconds - int [number of seconds to wait before] checking if the action is completed.
```

digitalocean.Domain module

class digitalocean.Domain.**Domain** (*args, **kwargs)

Bases: *digitalocean.baseapi.BaseAPI*

create ()

Create new doamin

create_new_domain_record (*args, **kwargs)

Create new domain record. <https://developers.digitalocean.com/#create-a-new-domain-record>

Parameters

- **type** – The record type (A, MX, CNAME, etc).
- **name** – The host name, alias, or service being defined by the record
- **data** – Variable data depending on record type.

Optional Args: priority: The priority of the host port: The port that the service is accessible on weight: The weight of records with the same priority

destroy ()

Destroy the domain by name

classmethod **get_object** (api_token, domain_name)

Class method that will return a Domain object by ID.

get_records (params=None)

Returns a list of Record objects

load ()

digitalocean.Droplet module

exception digitalocean.Droplet.**BadKernelObject**

Bases: *digitalocean.Droplet.DropletError*

exception digitalocean.Droplet.**BadSSHKeyFormat**

Bases: *digitalocean.Droplet.DropletError*

class digitalocean.Droplet.**Droplet** (*args, **kwargs)

Bases: *digitalocean.baseapi.BaseAPI*

“Droplet management

Attributes accepted at creation time:

Parameters

- **name** (*str*) – name
- **size_slug** (*str*) – droplet size
- **image** (*str*) – image name to use to create droplet
- **region** (*str*) – region
- **ssh_keys** – (*str*, optional): list of ssh keys
- **backups** (*bool*) – True if backups enabled

- **ipv6** (*bool*) – True if ipv6 enabled
- **private_networking** (*bool*) – True if private networking enabled
- **user_data** (*str*) – arbitrary data to pass to droplet
- **volumes** (*str*, optional) – list of blockstorage volumes
- **monitoring** – (*bool*) - True if installing the DigitalOcean monitoring agent

Attributes returned by API: **id** (*int*): droplet id **memory** (*str*): memory size **vcpus** (*int*): number of vcpus **disk** (*int*): disk size in GB **status** (*str*): status **locked** (*bool*): True if locked **created_at** (*str*): creation date in format u'2014-11-06T10:42:09Z' **status** (*str*): status, e.g. 'new', 'active', etc **networks** (*dict*): details of connected networks **kernel** (*dict*): details of kernel **backup_ids** (*int*, optional): list of ids of backups of this droplet **snapshot_ids** (*int*, optional): list of ids of snapshots of this droplet **action_ids** (*int*, optional): list of ids of actions **features** (*str*, optional): list of enabled features. e.g.

```
[u'private_networking', u'virtio']
```

image (*dict*): details of image used to create this droplet **ip_address** (*str*): public ip addresses **private_ip_address** (*str*): private ip address **ip_v6_address** (*str*, optional): list of ipv6 addresses assigned **end_point** (*str*): url of api endpoint used **volume_ids** (*str*, optional): list of blockstorage volumes

change_kernel (*kernel*, *return_dict=True*)

Change the kernel to a new one

Parameters **kernel** – instance of digitalocean.Kernel.Kernel

Optional Args:

return_dict (*bool*): **Return a dict when True (default)**, otherwise return an Action.

Returns dict or Action

create (**args*, ***kwargs*)

Create the droplet with object properties.

Note: Every argument and parameter given to this method will be assigned to the object.

classmethod create_multiple (**args*, ***kwargs*)

destroy ()

Destroy the droplet

Returns dict

disable_backups (*return_dict=True*)

Disable automatic backups

Optional Args:

return_dict (*bool*): **Return a dict when True (default)**, otherwise return an Action.

Returns dict or Action

enable_backups (*return_dict=True*)

Enable automatic backups

Optional Args:

return_dict (*bool*): **Return a dict when True (default)**, otherwise return an Action.

Returns dict or Action

enable_ipv6 (*return_dict=True*)

Enable IPv6 on an existing Droplet where available.

Optional Args:

return_dict (bool): Return a dict when True (default), otherwise return an Action.

Returns dict or Action

enable_private_networking (*return_dict=True*)

Enable private networking on an existing Droplet where available.

Optional Args:

return_dict (bool): Return a dict when True (default), otherwise return an Action.

Returns dict or Action

get_action (*action_id*)

Returns a specific Action by its ID.

Parameters **action_id** (*int*) – id of action

get_actions ()

Returns a list of Action objects This actions can be used to check the droplet's status

get_data (**args, **kwargs*)

Customized version of get_data to perform `__check_actions_in_data`

get_events ()

A helper function for backwards compatability. Calls `get_actions()`

get_kernel_available ()

Get a list of kernels available

classmethod get_object (*api_token, droplet_id*)

Class method that will return a Droplet object by ID.

Parameters

- **api_token** (*str*) – token
- **droplet_id** (*int*) – droplet id

get_snapshots ()

This method will return the snapshots/images connected to that specific droplet.

load ()

Fetch data about droplet - use this instead of `get_data()`

power_cycle (*return_dict=True*)

restart the droplet

Optional Args:

return_dict (bool): Return a dict when True (default), otherwise return an Action.

Returns dict or Action

power_off (*return_dict=True*)

restart the droplet

Optional Args:

return_dict (bool): Return a dict when True (default), otherwise return an Action.

Returns dict or Action

power_on (*return_dict=True*)

Boot up the droplet

Optional Args:

return_dict (bool): Return a dict when True (default), otherwise return an Action.

Returns dict or Action

reboot (*return_dict=True*)

restart the droplet

Optional Args:

return_dict (bool): Return a dict when True (default), otherwise return an Action.

Returns dict or Action

rebuild (*image_id=None, return_dict=True*)

Restore the droplet to an image (snapshot or backup)

Parameters **image_id** (*int*) – id of image

Optional Args:

return_dict (bool): Return a dict when True (default), otherwise return an Action.

Returns dict or Action

rename (*name, return_dict=True*)

Rename the droplet

Parameters **name** (*str*) – new name

Optional Args:

return_dict (bool): Return a dict when True (default), otherwise return an Action.

Returns dict or Action

reset_root_password (*return_dict=True*)

reset the root password

Optional Args:

return_dict (bool): Return a dict when True (default), otherwise return an Action.

Returns dict or Action

resize (*new_size_slug, return_dict=True, disk=True*)

Resize the droplet to a new size slug. <https://developers.digitalocean.com/documentation/v2/#resize-a-droplet>

Parameters **new_size_slug** (*str*) – name of new size

Optional Args:

return_dict (bool): Return a dict when True (default), otherwise return an Action.

disk (bool): If a permanent resize, with disk changes included.

Returns dict or Action

restore (*image_id, return_dict=True*)

Restore the droplet to an image (snapshot or backup)

Parameters `image_id` (*int*) – id of image

Optional Args:

return_dict (**bool**): **Return a dict when True (default)**, otherwise return an Action.

Returns dict or Action

shutdown (*return_dict=True*)
shutdown the droplet

Optional Args:

return_dict (**bool**): **Return a dict when True (default)**, otherwise return an Action.

Returns dict or Action

take_snapshot (*snapshot_name, return_dict=True, power_off=False*)
Take a snapshot!

Parameters `snapshot_name` (*str*) – name of snapshot

Optional Args:

return_dict (**bool**): **Return a dict when True (default)**, otherwise return an Action.

power_off (**bool**): **Before taking the snapshot the droplet will be** turned off with another API call.
It will wait until the droplet will be powered off.

Returns dict or Action

exception `digitalocean.Droplet.DropletError`
Bases: `digitalocean.baseapi.Error`

Base exception class for this module

digitalocean.FloatingIP module

class `digitalocean.FloatingIP.FloatingIP` (**args, **kwargs*)
Bases: `digitalocean.baseapi.BaseAPI`

assign (*droplet_id*)
Assign a FloatingIP to a Droplet.

Parameters `droplet_id` – int - droplet id

create (**args, **kwargs*)
Creates a FloatingIP and assigns it to a Droplet.

Note: Every argument and parameter given to this method will be assigned to the object.

Parameters `droplet_id` – int - droplet id

destroy ()
Destroy the FloatingIP

classmethod `get_object` (*api_token, ip*)
Class method that will return a FloatingIP object by its IP.

Parameters

- `api_token` – str - token

- **ip** – str - floating ip address

load()

Load the FloatingIP object from DigitalOcean.

Requires self.ip to be set.

reserve (*args, **kwargs)

Creates a FloatingIP in a region without assigning it to a specific Droplet.

Note: Every argument and parameter given to this method will be assigned to the object.

Parameters **region_slug** – str - region's slug (e.g. 'nyc3')

unassign()

Unassign a FloatingIP.

digitalocean.Image module

class digitalocean.Image.**Image** (*args, **kwargs)

Bases: *digitalocean.baseapi.BaseAPI*

destroy()

Destroy the image

classmethod **get_object** (api_token, image_id)

Class method that will return an Image object by ID.

load()

rename (new_name)

Rename an image

transfer (new_region_slug)

Transfer the image

digitalocean.Kernel module

class digitalocean.Kernel.**Kernel** (*args, **kwargs)

Bases: *digitalocean.baseapi.BaseAPI*

digitalocean.LoadBalancer module

class digitalocean.LoadBalancer.**ForwardingRule** (entry_protocol=None, entry_port=None, target_protocol=None, target_port=None, certificate_id='', tls_passthrough=False)

Bases: *object*

An object holding information about a LoadBalancer forwarding rule setting.

Parameters

- **entry_protocol** (*str*) – The protocol used for traffic to a LoadBalancer. The possible values are: “http”, “https”, or “tcp”
- **entry_port** (*int*) – The port the LoadBalancer instance will listen on

- **target_protocol** (*str*) – The protocol used for traffic from a LoadBalancer to the backend Droplets. The possible values are: “http”, “https”, or “tcp”
- **target_port** (*int*) – The port on the backend Droplets on which the LoadBalancer will send traffic
- **certificate_id** (*str, optional*) – The ID of the TLS certificate used for SSL termination if enabled
- **tls_passthrough** (*bool, optional*) – A boolean indicating if SSL encrypted traffic will be passed through to the backend Droplets

```
class digitalocean.LoadBalancer.HealthCheck (protocol='http', port=80, path='/',
                                             check_interval_seconds=10, response_timeout_seconds=5,
                                             healthy_threshold=5, unhealthy_threshold=3)
```

Bases: `object`

An object holding information about a LoadBalancer health check settings.

Parameters

- **protocol** (*str*) – The protocol used for health checks. The possible values are “http” or “tcp”.
- **port** (*int*) – The port on the backend Droplets for health checks
- **path** (*str*) – The path to send a health check request to
- **check_interval_seconds** (*int*) – The number of seconds between between two consecutive health checks
- **response_timeout_seconds** (*int*) – The number of seconds the Load Balancer instance will wait for a response until marking a check as failed
- **healthy_threshold** (*int*) – The number of times a health check must fail for a backend Droplet to be removed from the pool
- **unhealthy_threshold** (*int*) – The number of times a health check must pass for a backend Droplet to be re-added to the pool

```
class digitalocean.LoadBalancer.LoadBalancer (*args, **kwargs)
```

Bases: `digitalocean.baseapi.BaseAPI`

An object representing an DigitalOcean Load Balancer.

Attributes accepted at creation time:

Args: name (*str*): The Load Balancer’s name region (*str*): The slug identifier for a DigitalOcean region algorithm (*str, optional*): The load balancing algorithm to be

used. Currently, it must be either “round_robin” or “least_connections”

forwarding_rules (*obj:list*): A list of *ForwardingRules* objects health_check (*obj, optional*): A *HealthCheck* object sticky_sessions (*obj, optional*): A *StickySessions* object

redirect_http_to_https (*bool, optional*): A boolean indicating whether HTTP requests to the Load Balancer should be redirected to HTTPS

droplet_ids (*obj:list of int*): A list of IDs representing Droplets to be added to the Load Balancer (mutually exclusive with ‘tag’)

tag (*str*): A string representing a DigitalOcean Droplet tag (mutually exclusive with ‘droplet_ids’)

Attributes returned by API: `name` (`str`): The Load Balancer’s name `id` (`str`): An unique identifier for a Load-Balancer `ip` (`str`): Public IP address for a LoadBalancer `region` (`str`): The slug identifier for a DigitalOcean region `algorithm` (`str`, optional): The load balancing algorithm to be

used. Currently, it must be either “round_robin” or “least_connections”

`forwarding_rules` (`obj:list`): A list of *ForwrdingRules* objects `health_check` (`obj`, optional): A *HealthCheck* object `sticky_sessions` (`obj`, optional): A *StickySessions* object `redirect_http_to_https` (`bool`, optional): A boolean indicating

whether HTTP requests to the Load Balancer should be redirected to HTTPS

`droplet_ids` (`obj:list of int`): A list of IDs representing Droplets to be added to the Load Balancer

`tag` (`str`): A string representing a DigitalOcean Droplet tag `status` (`string`): An indication the current state of the LoadBalancer `created_at` (`str`): The date and time when the LoadBalancer was created

`add_droplets` (`droplet_ids`)

Assign a LoadBalancer to a Droplet.

Parameters (`obj` (`droplet_ids`) – list of `int`): A list of Droplet IDs

`add_forwarding_rules` (`forwarding_rules`)

Adds new forwarding rules to a LoadBalancer.

Parameters (`obj` (`forwarding_rules`) – list): A list of *ForwrdingRules* objects

`create` (`*args`, `**kwargs`)

Creates a new LoadBalancer.

Note: Every argument and parameter given to this method will be assigned to the object.

Parameters

- **`name`** (`str`) – The Load Balancer’s name
- **`region`** (`str`) – The slug identifier for a DigitalOcean region
- **`algorithm`** (`str`, `optional`) – The load balancing algorithm to be used. Currently, it must be either “round_robin” or “least_connections”
- (`obj` (`droplet_ids`) – list): A list of *ForwrdingRules* objects
- **`health_check`** (`obj`, `optional`) – A *HealthCheck* object
- **`sticky_sessions`** (`obj`, `optional`) – A *StickySessions* object
- **`redirect_http_to_https`** (`bool`, `optional`) – A boolean indicating whether HTTP requests to the Load Balancer should be redirected to HTTPS
- (`obj` – list of `int`): A list of IDs representing Droplets to be added to the Load Balancer (mutually exclusive with ‘tag’)
- **`tag`** (`str`) – A string representing a DigitalOcean Droplet tag (mutually exclusive with ‘droplet_ids’)

`destroy` ()

Destroy the LoadBalancer

classmethod `get_object` (`api_token`, `id`)

Class method that will return a LoadBalancer object by its ID.

Parameters

- **`api_token`** (`str`) – DigitalOcean API token

- **id** (*str*) – Load Balancer ID

load ()

Loads updated attributes for a LoadBalancer object.

Requires self.id to be set.

remove_droplets (*droplet_ids*)

Unassign a LoadBalancer.

Parameters (**obj** (*droplet_ids*) – list of int): A list of Droplet IDs

remove_forwarding_rules (*forwarding_rules*)

Removes existing forwarding rules from a LoadBalancer.

Parameters (**obj** (*forwarding_rules*) – list): A list of *ForwardingRules* objects

class digitalocean.LoadBalancer.**StickySessions** (*type='none', cookie_name='DO_LB', cookie_ttl_seconds=300*)

Bases: `object`

An object holding information on a LoadBalancer's sticky sessions settings.

Parameters

- **type** (*str*) – The type of sticky sessions used. Can be “cookies” or “none”
- **cookie_name** (*str, optional*) – The name used for the client cookie when using cookies for sticky session
- **cookie_ttl_seconds** (*int, optional*) – The number of seconds until the cookie expires

digitalocean.Manager module

class digitalocean.Manager.**Manager** (**args, **kwargs*)

Bases: `digitalocean.baseapi.BaseAPI`

get_account ()

Returns an Account object.

get_action (*action_id*)

Return an Action object by a specific ID.

get_all_certificates ()

This function returns a list of Certificate objects.

get_all_domains ()

This function returns a list of Domain object.

get_all_droplets (*tag_name=None*)

This function returns a list of Droplet object.

get_all_floating_ips ()

This function returns a list of FloatingIP objects.

get_all_images ()

This function returns a list of Image objects containing all available DigitalOcean images, both public and private.

get_all_load_balancers ()

Returns a list of Load Balancer objects.

get_all_regions ()

This function returns a list of Region object.

get_all_sizes ()

This function returns a list of Size object.

get_all_sshkeys ()

This function returns a list of SSHKey object.

get_all_volumes ()

This function returns a list of Volume objects.

get_app_images ()

This function returns a list of Image objects representing public DigitalOcean ‘One-Click’ application images.

get_certificate (*id*)

Returns a Certificate object by its ID.

Parameters *id* (*str*) – Certificate ID

get_distro_images ()

This function returns a list of Image objects representing public base distribution images.

get_domain (*domain_name*)

Return a Domain by its domain_name

get_droplet (*droplet_id*)

Return a Droplet by its ID.

get_floating_ip (*ip*)

Returns a FloatingIP object by its IP address.

get_global_images ()

This function returns a list of Image objects representing public DigitalOcean images (e.g. base distribution images and ‘One-Click’ applications).

get_image (*image_id*)

Return a Image by its ID.

get_images (*private=False*, *type=None*)

This function returns a list of Image object.

get_load_balancer (*id*)

Returns a Load Balancer object by its ID.

Parameters *id* (*str*) – Load Balancer ID

get_my_images ()

This function returns a list of Image objects representing private DigitalOcean images (e.g. snapshots and backups).

get_ssh_key (*ssh_key_id*)

Return a SSHKey object by its ID.

get_volume (*volume_id*)

Returns a Volume object by its ID.

digitalocean.Metadata module

```
class digitalocean.Metadata.Metadata (*args, **kwargs)
    Bases: digitalocean.baseapi.BaseAPI

    Metadata API: Provide useful information about the current Droplet. See: https://developers.digitalocean.com/metadata/#introduction

    droplet_id = None

    end_point = 'http://169.254.169.254/metadata/v1'

    get_data (url, headers={}, params={}, render_json=True)
        Customized version of get_data to directly get the data without using the authentication method.

    load ()
```

digitalocean.Record module

```
class digitalocean.Record.Record (domain_name=None, *args, **kwargs)
    Bases: digitalocean.baseapi.BaseAPI

    create ()
        Create a record for a domain

    destroy ()
        Destroy the record

    classmethod get_object (api_token, domain, record_id)
        Class method that will return a Record object by ID and the domain.

    load ()

    save ()
        Save existing record
```

digitalocean.Region module

```
class digitalocean.Region.Region (*args, **kwargs)
    Bases: digitalocean.baseapi.BaseAPI
```

digitalocean.SSHKey module

```
class digitalocean.SSHKey.SSHKey (*args, **kwargs)
    Bases: digitalocean.baseapi.BaseAPI

    create ()
        Create the SSH Key

    destroy ()
        Destroy the SSH Key

    edit ()
        Edit the SSH Key
```


classmethod `get_object` (*api_token, ssh_key_id*)
 Class method that will return a SSHKey object by ID.

load ()
 Load the SSHKey object from DigitalOcean.
 Requires either self.id or self.fingerprint to be set.

load_by_pub_key (*public_key*)
 This method will load a SSHKey object from DigitalOcean from a public_key. This method will avoid problem like uploading the same public_key twice.

digitalocean.Size module

class `digitalocean.Size.Size` (**args, **kwargs*)
 Bases: `digitalocean.baseapi.BaseAPI`

digitalocean.Tag module

class `digitalocean.Tag.Tag` (**args, **kwargs*)
 Bases: `digitalocean.baseapi.BaseAPI`

add_droplets (*droplet*)
 Add the Tag to a Droplet.

Attributes accepted at creation time: droplet: array of string or array of int, or array of Droplets.

create (***kwargs*)
 Create the tag.

delete ()

classmethod `get_object` (*api_token, tag_name*)

load ()
 Fetch data about tag

remove_droplets (*droplet*)
 Remove the Tag from the Droplet.

Attributes accepted at creation time: droplet: array of string or array of int, or array of Droplets.

digitalocean.Volume module

class `digitalocean.Volume.Volume` (**args, **kwargs*)
 Bases: `digitalocean.baseapi.BaseAPI`

attach (*droplet_id, region*)
 Attach a Volume to a Droplet.

Parameters

- **droplet_id** – int - droplet id
- **region** – string - slug identifier for the region

create (*args, **kwargs)

Creates a Block Storage volume

Note: Every argument and parameter given to this method will be assigned to the object.

Parameters

- **name** – string - a name for the volume
- **region** – string - slug identifier for the region
- **size_gigabytes** – int - size of the Block Storage volume in GiB

Optional Args: description: string - text field to describe a volume

destroy ()

Destroy a volume

detach (droplet_id, region)

Detach a Volume to a Droplet.

Parameters

- **droplet_id** – int - droplet id
- **region** – string - slug identifier for the region

classmethod get_object (api_token, volume_id)

Class method that will return an Volume object by ID.

get_snapshots ()

Retrieve the list of snapshots that have been created from a volume.

Args:

load ()

resize (size_gigabytes, region)

Detach a Volume to a Droplet.

Parameters

- **size_gigabytes** – int - size of the Block Storage volume in GiB
- **region** – string - slug identifier for the region

snapshot (name)

Create a snapshot of the volume.

Parameters **name** – string - a human-readable name for the snapshot

digitalocean.baseapi module

class digitalocean.baseapi.**BaseAPI** (*args, **kwargs)

Bases: `object`

Basic api class for

end_point = 'https://api.digitalocean.com/v2/'

get_data (url, type='GET', params=None)

This method is a basic implementation of `__call_api` that checks errors too. In case of success the method will return True or the content of the response to the request.

Pagination is automatically detected and handled accordingly

get_timeout ()

Checks if any timeout for the requests to DigitalOcean is required. To set a timeout, use the REQUEST_TIMEOUT_ENV_VAR environment variable.

token = ''

exception digitalocean.baseapi.**DataReadError**

Bases: *digitalocean.baseapi.Error*

exception digitalocean.baseapi.**Error**

Bases: *exceptions.Exception*

Base exception class for this module

exception digitalocean.baseapi.**JSONReadError**

Bases: *digitalocean.baseapi.Error*

exception digitalocean.baseapi.**NotFoundError**

Bases: *digitalocean.baseapi.Error*

exception digitalocean.baseapi.**TokenError**

Bases: *digitalocean.baseapi.Error*

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digitalocean API to manage droplets

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