
Wonderbolt

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Wonderbolt LDA

Wonderbolt is a config based email modifier, acting as local delivery agent and resubmitting emails via SMTP after modification.

Wonderbolt's main purpose is to enable simple email lists with external management of subscribers.

- Depends: python >= 3.4
- Recommends: python3-systemd

1.1 Command-Line Options

--config file	Required. This option takes one or more paths to config files. Later config files overwrite values from earlier ones.
--sasl-username username	Optional. See config option <code>require_sasl_username</code> .

1.2 Configuration Options

All configuration options are optional. However, you probably want to change an option like `envelope_rcpt_to` to avoid loops.

bounce_from *string or null*

The *From* header that is used for bounce messages generated by Wonderbolt. If not specified or `null`, the header is set to *Mail Delivery System <MAILER-DAEMON@hostname>*, where *hostname* is replaced by the configured hostname.

envelope_mail_from *string or null*

Bounce address for the new delivery of the email. If this setting is `null`, it will be derived from the *From* email header.

envelope_rcpt_to *list of strings or null*

Recipients for new delivery of the email. If this setting is `null`, it will be derived from the *To* email header.

header_add *mapping*

Adds header values without removing/changing existing header lines. Performed after `header_replace` and `header_add_if_missing`. Therefore, `header_add` adds a header

a second time if key overlaps with header_replace and/or header_add_if_missing are present.

header_add_if_missing *mapping*

Adds header values only if header with the given key does not exist. Performed after header_replace, but before header_add. Therefore, header_add adds a header a second time if key overlaps with header_add_if_missing are present.

header_replace *mapping*

Removes all existing headers with the given keys and adds the new values.

hostname *string*

The configured hostname is used in the content of bounce messages generated by Wonderbolt and is part of the default value for the bounce_from option.

reject_msg_requirements *string*

Error message used if emails are rejected by Wonderbolt due to violated require_configurations. This message is usually contained in a bounce message generated by the MTA and delivered to the sender afterwards.

require_from *list of strings* or "envelope_rcpt_to" or false

Enables to reject mails if the *From* email header does not fulfill a condition.

- *list of strings*: *From* must be contained in this list.
- "envelope_rcpt_to": *From* must be contained in the envelope_rcpt_to list. If this option is set, envelope_rcpt_to must be set and not null.
- false: Disables checks (default).

require_sasl_username *list of strings* or "envelope_rcpt_to" or false

Enables to reject mails if the SASL username does not fulfill a condition. Same parameters as for require_from.

For this feature to work, --sasl-username has to be specified on delivery.

Note: While this feature is named after the SASL (Simple Authentication and Security Layer), there is no aspect of the implementation that limits the functionality to this exact authentication protocol.

sasl_recipient_delimiter *string*

Recipient delimiters only affect the interpretation of envelope_rcpt_to if require_sasl_username is set to this value. The local part of all recipients is stripped from all characters occurring after a first delimiter for comparing with the SASL username.

This option should be set to the same value as the recipient_delimiter option of the postfix server. Every character in the string is treated as a delimiter. An empty string (default) corresponds to no delimiters.

smtp_server *string*

SMTP server via which the email is submitted. Default is "localhost:25".

1.3 Configuration Examples

Example of a wonderbolt config without a specific use case.

```
{
    "reject_msg_requirements": "Rejected due to unprivileged SASL user",
    "header_add": {
        "X-Header-1": 1,
        "X-Header-3": "Value 3"
    },
    "header_replace": {
        "X-Header-1": "Value 1",
        "X-Header-2": "Value 2"
    },
    "envelope_mail_from": "Bounce To <bounce_to@example.com>",
    "envelope_rcpt_to": [
        "User Name <user@example.org>",
        "user2@example.org"
    ],
    "require_from": false,
    "require_sasl_username": "envelope_rcpt_to",
    "smtp_server": "mail.example.com:25"
}
```

1.3.1 Complete Mailing List under Postfix

master.cfg

```
wonderbolt    unix    -      n      n      -      -      pipe
  flags=Ohu
  user=wonderbolt:wonderbolt
  argv=/usr/local/bin/wonderbolt.py --config /etc/wonderbolt/${nexthop}.json --sasl-username ${sasl_u}
```

main.cfg

```
wonderbolt_destination_recipient_limit = 1
```

/etc/wonderbolt/list@example.org.json

```
{
    "envelope_mail_from": "list+bounce@example.org",
    "envelope_rcpt_to": [
        "listadmin@example.org",
        "user1@example.com",
        "user2_lists@example.com"
    ],
    "header_add_if_missing": {
        "List-Id": "<test.example.org>",
        "List-Post": "<mailto:list@example.org>",
        "Precedence": "bulk"
    },
    "header_replace": {
        "List-Help": "<mailto:listadmin@example.org>",
        "List-Owner": "<mailto:listadmin@example.org>",
        "List-Subscribe": "<mailto:listadmin@example.org?body=subscribe%20list%20list@example.org>",
        "List-Unsubscribe": "<mailto:listadmin@example.org?body=unsubscribe%20list%20list@example.org>"
    },
}
```

```
"require_sasl_username": "envelope_rcpt_to",
"sasl_recipient_delimiter": "_"
}
```

Note: The choice of which headers are kept and which are replaced is made such that the list should conform with all currently applicable RFCs.

This configuration follows [RFC 2919](#) by not removing the *List-Id* of a “parent” mailing list by not removing any *List-Id*. Since it is hard to tell what an *unexpected source* for such a header is, it does pass a given *List-Id* through to the list in any case, which violates a *SHOULD NOT* of this RFC.

It further follows [RFC 2369](#) by replacing the *List-Help*, *List-Owner*, *List-Subscribe* and *List-Unsubscribe* headers. The *List-Post* header could also be replaced.

maps/aliases (postfix virtual_alias_maps)

```
list+bounce@example.org listadmin@example.org
```

Note: This aliasing of the list-admin address is done to use it as an envelope sender, which does not conflict with any sender policies defined by via the SPF and similar mechanisms.

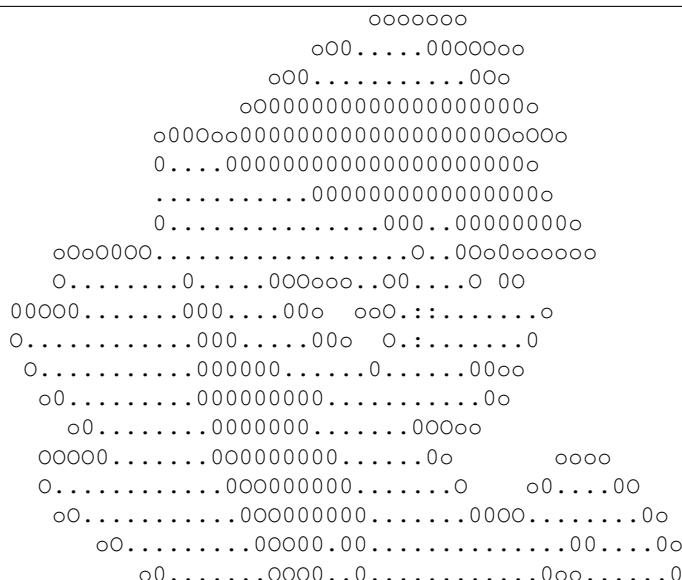
maps/transport (postfix transport_maps)

```
list@example.org wonderbolt:list@example.org
```

1.4 See also

[pipe\(8\)](#), Postfix delivery to external command

1.5 Dedication



```
          o.....000.....o 0.....o
          oo.....00.....0 00...0
  oooooooo  oo0.....o  ooo
  oooooooooooooooo00000000  0:.....
  oooooooooooooooo0000000000000000  .0.....0o0....0
  ooooooooooooo00000000000000000000  ..0o  oooo
o0 ooooooooooooo:::0000ooo000.....0o
  000000000:::00000  0.....0o
  0000000:::0000  o.....0o
  0000000:::00000o  o.....0
  0000000:::000000  o.....o
  0000000:::000000o  o.....0
  0000000:::00000  o.....0
  0000000:::0000o  o00.....0o
  0000000:::0000  0.....0o
  0000000:::000o  o000....0o
  o0000:::o  oo
  o000:::0  o
  o 0.0
  Oo
```

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CHAPTER 2

wonderbolt module
