
Imap-CLI Documentation

Release 0.6

Romain Soufflet (Gentux)

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Everyone is receiving more and more emails days after days and every mail client I know forced users to adapt their working environment.

This is unacceptable, mails are simple. Mail management softwares must adapt to us !

[Imap-CLI](#) aims to provide a command line interface, a python API and a REST API to consult and manage IMAP accounts:

- Get IMAP account status (New mails, mail counting... etc...)
- Get list of mails in INBOX (or any other directory)
- Search amongst mails by tag, header, or full text search
- Read mail
- Flag mail (Read, Unread, Delete... etc...)

Contents:

CHAPTER 1

Installation

To install Imap-CLI, you can use pip:

```
pip install imap-cli
```

Or install it from its source code:

```
git clone https://github.com/Gentux/imap-cli.git
cd imap-cli
python setup.py install --user
```

This installation will provide command line tools allowing you to do simple task an IMAP account:

```
* imap-api: Provide a simple REST API to access your mailbox information
* imap-cli-status: List directories and display count of mail *seen*, *unseen* and
  ↵*recent* [#f1]
* imap-cli-list: List mail in specified directory
* imap-cli-search: Search through specified directory for tag or plain text
* imap-cli-read: Display a mail on standard output
* imap-cli-flag: Set or Unset flag on specified set of mail
* imap-shell: A little shell to query mailbox informations
```

Each one of these command has its own *documentation* with the *-help* options

You can also find in Imap-CLI source code 2 bash script. The first one is **imapcli**, it is a little wrapper to help user with mail command:

```
imapcli status
imapcli list
imapcli read 23
```

Is equivalent to:

```
imap-cli-status
imap-cli-list
imap-cli-read 23
```

You can also access to help message of the wanted command with:

```
imapcli help status
```

The last script included in source code is **imapcli_bash_completion.sh**. This script give autocompletion to **imapcli** script. To install it, you just have to do:

```
cp imapcli_bash_completion.sh /etc/bash_completion.d/imapcli  
source ~/.bashrc
```

And then, autocompletion will be available.

CHAPTER 2

Configuration

Imap-CLI need to have information about your IMAP account to connect to it. And to do so, it provide several ways to retrieve those configurations.

Loading default config

Load an *empty* configuration dictionnary with default values listed in file *config-example.ini*:

```
from imap_cli import config
conf = config.new_context()
```

This is usually not what you want, this configuration method is used by unit tests

Loading config from configuration file

If you intend to use command line tools, this is definitely the best method.

Each command line tools will provide the options *-c*, *--config-file* in order to let you specify your very own config file. It is also helpful to have multiple file in case you have multiple IMAP account.

There is a default configuration file which will be used if no one is specified, it's **~/.config/imapcli**.

This file can contains the following options:

```
[imap]
hostname = imap.example.org
username = username
password = secret
ssl = True

[display]
format_list =
```

```
ID:          {mail_id}
Flags:       {flags}
From:        {from}
To:          {to}
Date:        {date}
Subject:     {subject}
format_thread = {uid} {subject} <<< FROM {from}
format_status = {directory:>20} : {count:>5} Mails - {unseen:>5} Unseen - {recent:>5} ↵Recent
limit = 10
```

Warning: Don't forget to set correct permission on these files ! It will store your IMAP Account password, allow only your own user to read this file

Loading config from python code

If you need to connect and retrieve mail information with a python script, you can load any config file

But you can also use a python structure to store your information and load it from a *dict*. In fact, config it's just a dict, the following method will just “complete” your dict.

Every missing key will take the default value.

CHAPTER 3

Connection

Once *configuration* is done, you can connect to your imap account

CHAPTER 4

Status

Status module allow you to get the actual state of your IMAP account. It will tell you for each one of your directories

- The name of directory
- Total number of mail in this directory
- Number of *Recent* mail in this directory
- Number of *Unseen* mail in this directory

CHAPTER 5

Search

This module aim to provide all search options available in IMAP protocoles without having to read the entire IMAP RFC.

For now, you can do following searches

- Simple listing of all mails
- Search by tag
- Search by flag
- Search full text in mails body
- search by subject
- search by mail adresse, in *bcc*, *cc*, *from* or *to* header fields
- search by date, *before*, *after* or *on* a particular date
- search by header, given a pair of haeder name and header value to search
- search by size, *larger* or *smaller* than given value

Moreover, a few logical combination of the above

- Not
- Or

CHAPTER 6

IMAP Shell

The *imap-shell* provide you a minimalist shell to query your IMAP account.

As the other commands, it will use the default configuration file if no other is specified.

Available commands

- cd: Select another mailbox (ex: cd INBOX)
- flag: Put a flag on a mail
- help: Display available command or short description of specified command
- list: List mail in selected mailbox
- quit: Exit the shell
- read: Read specified mail
- search: Search through mailbox
- status: Display IMAP account statuses

CHAPTER 7

Roadmap

The actual version of Imap-CLI is 0.6.

Impa-CLI aims to map all IMAP protocols functionnality within a simple python API, and points in development are listed below

v0.1

- Status (list directory and new mail per directory)
- List (list content of a directory)
- Read (display content of specified email)

v0.2

- Basic Search (search amongs tag, subject and full text within mails)
- Tags (Add or Remove tag from mails)

v0.3

- Rewrite code structure to ease the creation of API
- Documentation

v0.4

- Advanced Search

- Use UID instead of volatile mails id
- Read all type of mail and handle attachments

v0.5

- List mail by thread
- Display threads

v0.6 (current)

- Clean up and complete documentation
- Clean up code
- Test coverage > 90%
- Copy, Move and Delete methods

CHAPTER 8

How to contribute

All contributions are welcome.

Submit a patch

To submit a patch

- Step 1: Fork the project on github.
- Step 2: Apply your patch
- Step 3: Ensure all unit test pass, using **tox**
- Step 4: Create a pull request

If you're not a developper

You can [open new issues](#) for:

- Ask any questions
- Report Bugs
- Request new feature

There are a lot to do

Feel free to contact any mainteners you can found on github. There always a lot of things to do.

CHAPTER 9

Indices and tables

- genindex
- modindex