
Apache Libcloud Documentation

Release 1.13.0

The Apache Software Foundation

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Note: This is an unofficial client library which is not affiliated with Yubico in any way.

Yubico Client is a Python library for verifying Yubikey One Time Passwords (OTPs) based on the validation protocol version 2.0.

- Yubikey website: <http://www.yubico.com>
- Yubikey documentation: <http://www.yubico.com/developers/intro/>
- Validation Protocol Version 2.0 FAQ: <http://www.yubico.com/develop/open-source-software/web-api-clients/server/>
- Validation Protocol Version 2.0 description: <https://github.com/Yubico/yubikey-val/wiki/ValidationProtocolV20>

CHAPTER 1

Installation

Note: Package has been recently renamed from *yubico* to *yubico-client* and the main module has been renamed from *yubico* to *yubico_client*. This was done to avoid naming conflicts and make creation of distribution specific packages easier.

Latest stable version can be installed from PyPi using pip:

```
pip install yubico-client
```

If you want to install latest development version, you can install it from this Git repository:

```
pip install -e https://github.com/Kami/python-yubico-client.git@master#egg=yubico_
↪client
```


CHAPTER 2

Usage

Note: It may take up until 5 minutes until all validation servers know about your newly generated client.

1. Generate your client id and secret key. This can be done on the [Yubico website](#).
2. Use the generated client id and key to instantiate the client

Keep in mind that using a secret key is optional, but you are strongly recommended to do so. If a secret key is not specified, you can still verify the token, but the response message signature won't be verified.

Single mode:

```
from yubico_client import Yubico

client = Yubico('client id', 'secret key')
client.verify('otp')
```

The `yubico_client.Yubico.verify()` method will return `True` if the provided OTP is valid (`STATUS=OK`).

Multi mode:

```
from yubico_client import Yubico

client = Yubico('client id', 'secret key')
client.verify_multi(['otp 1', 'otp 2', 'otp 3'])
```

The `yubico_client.Yubico.verify()` method will return `True` if all of the provided OTPs are valid (`STATUS=OK`).

Both methods can also throw one of the following exceptions:

- `StatusCodeError` - server returned `REPLAYED_OTP` status code
- `SignatureVerificationError` - server response message signature verification failed
- `InvalidClientIdError` - client with the specified id does not exist (server returned `NO_SUCH_CLIENT` status code)

- `Exception` - server returned one of the following status values: `BAD_OTP`, `BAD_SIGNATURE`, `MISSING_PARAMETER`, `OPERATION_NOT_ALLOWED`, `BACKEND_ERROR`, `NOT_ENOUGH_ANSWERS`, `REPLAYED_REQUEST` or no response was received from any of the servers in the specified time frame (default timeout = 10 seconds)

Using a custom CA certificate bundle

Note: This functionality changed slightly in version 1.9.0. Before this version, you could use a custom CA bundle by setting `yubico_client.yubico.CA_CERTS_BUNDLE_PATH` module level variable.

By default, the library will try to find and use a standard CA bundle which is available on your operating system for verifying the server SSL certificate.

If you want to use a custom CA bundle (e.g. you want to use a more restrictive bundle which only contains root CA certificate for `api.yubico.com` domain), you can do so by passing `ca_certs_bundle_path` argument to the `Yubico` class constructor.

Version 1.9.0 and above:

```
from yubico_client import Yubico

client = Yubico('client id', 'secret key',
                ca_certs_bundle_path='/home/to/my/bundle.pem')
```

Versions prior to 1.9.0:

```
from yubico_client import yubico

yubico.CA_CERTS_BUNDLE_PATH = '/home/to/my/bundle.pem'
client = yubico.Yubico('client id', 'secret key')
```

Keep in mind that this bundle needs to be in PEM format.

CHAPTER 4

API Documentation

For API documentation, please see the [API Documentation](#) page.

CHAPTER 5

Changelog

For changelog, please see the Changelog page.

CHAPTER 6

License

Yubico Client is distributed under the [3-Clause BSD License](#).