blockade-toolkit Documentation

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Contents

Python client for Blockade.io services. Questions, comments or for support needs, please use the issues page on Github.

CHAPTER 1

Command-line scripts

The following command line scripts are installed with the library:

- **blockade-cfg**: utility to set or query API configuration options for the library (email and API key).
- **blockade-aws-deploy**: utility to set automatically deploy a Blockade cloud node within Amazon Web Services.
- **blockade**: primary client to interface with the blockade back-end services.

See the *Usage* section for getting started or our wiki for more information.

CHAPTER 2

Code Documentation

2.1 Installation

From the downloaded source distribution:

```
$ python setup.py install
```

Or from PyPI:

```
$ pip install blockade-toolkit [--upgrade]
```

The package depends on several external libraries. If these are not present, they will be installed automatically. A `requirements.txt` file is included in the repository which outlines these dependencies in detail.

2.2 Setup

Users must supply their email and API key in order for this library to function. On the first setup run, validated whitelists will be downloaded and stored within the configuration directory. First-time setup requires configuring your API email and private key for authentication:

```
$ blockade-cfg setup <EMAIL> <API_KEY>
```

At any time, the current API configuration parameters can be queried using the same utility:

```
$ blockade-cfg show
```

Configuration parameters are stored in **$HOME/.config/blockade/api_config.json**.

2.3 Usage

Every command-line script has several sub-commands that may be passed to it. The commands usage may be described with the `-h/--help` option.

For example:

```
$ blockade -h
usage: blockade [-h] {ioc} ...

Blockade Analyst Bench

positional arguments:
  {ioc}
    ioc       Perform actions with IOCs

optional arguments:
  -h, --help  show this help message and exit
```

2.4 Code Documentation

2.4.1 Blockade Analyst Bench Interface

class blockade.api.**Client**(*email*, *api_key*, *server='api.blockade.io'*, *http_proxy=None*, *https_proxy=None*, *verify=True*, *headers=None*, *debug=False*)

Base client that all data sources will inherit from.

_endpoint(*endpoint*, *action*, **url_args*)

Return the URL for the action.

Parameters

- **endpoint** (*str*) – The controller
- **action** (*str*) – The action provided by the controller
- **url_args** – Additional endpoints(for endpoints that take part of the url as option)

Returns Full URL for the requested action

_get(*endpoint*, *action*, **url_args*, ***url_params*)

Request API Endpoint - for GET methods.

Parameters

- **endpoint** (*str*) – Endpoint
- **action** (*str*) – Endpoint Action
- **url_args** – Additional endpoints(for endpoints that take part of the url as option)
- **url_params** – Parameters to pass to url, typically query string

Returns response deserialized from JSON

_json(*response*)

JSON response from server.

Parameters **response** – Response from the server

Throws ValueError from requests' response.json() error

Returns response deserialized from JSON

_send_data(*method*, *endpoint*, *action*, *data*, **url_args*, ***url_params*)
Submit to API Endpoint - for DELETE, PUT, POST methods.

Parameters

- **method** (*str*) – Method to use for the request
- **endpoint** (*str*) – Endpoint
- **action** (*str*) – Endpoint Action
- **url_args** – Additional endpoints(for endpoints that take part of the url as option)
- **url_params** – Parameters to pass to url, typically query string

Returns response deserialized from JSON

classmethod from_config()
Method to return back a loaded instance.

set_debug(*status*)
Control the logging state.

class blockade.config.**Config**(***kwargs*)
Manage configuration to ease library use.

get(*item*, *default=None*)
Get details from the configuration.

Parameters

- **item** (*str*) – Key used for search
- **default** – Default value if search misses

Returns Configuration value

load_config(***kwargs*)
Load the configuration for the user or seed it with defaults.

Returns Boolean if successful

options
Return configuration option data.

Returns Dict of configuration keys

write_config()
Write the configuration to a local file.

Returns Boolean if successful

class blockade.libs.events.**EventsClient**(**args*, ***kwargs*)
Client to interface with events for blockade.

flush_events()
Flush events from the cloud node.

get_events()
Get events from the cloud node.

class blockade.libs.indicators.**IndicatorClient**(**args*, ***kwargs*)
Client to interface with indicators for blockade.

add_indicators(*indicators=[]*, *private=False*, *tags=[]*)
Add indicators to the remote instance.

get_indicators()
List indicators available on the remote instance.

2.5 Exceptions

class blockade.common.exceptions.**INVALID_INDICATORS**
No indicators were passed.

2.6 Changelog

CHAPTER 3

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