TwinDB CloudFlare Library Documentation

Release 0.1.1

TwinDB Development Team

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CHAPTER 1

TwinDB CloudFlare Library

TwinDB CloudFlare Library is a module to work with CloudFlare API

- Free software: Apache Software License 2.0
- Documentation: https://twindb-cloudflare.readthedocs.io.

1.1 Features

- TODO

1.2 Credits

This package was created with Cookiecutter and the audreyr/cookiecutter-pypackage project template.

CHAPTER 2

Installation

2.1 Stable release

To install TwinDB CloudFlare Library, run this command in your terminal:

```
$ pip install twindb_cloudflare
```

This is the preferred method to install TwinDB CloudFlare Library, as it will always install the most recent stable release.

If you don't have pip installed, this Python installation guide can guide you through the process.

2.2 From sources

The sources for TwinDB CloudFlare Library can be downloaded from the Github repo.

You can either clone the public repository:

```
$ git clone git://github.com/twindb/twindb_cloudflare
```

Or download the tarball:

```
$ curl  -OL https://github.com/twindb/twindb_cloudflare/tarball/master
```

Once you have a copy of the source, you can install it with:

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

CHAPTER 3

Usage

To use TwinDB CloudFlare Library in a project:

```
import twindb_cloudflare
```

CHAPTER 4

twindb_cloudflare package

4.1 Submodules

4.2 twindb_cloudflare.twindb_cloudflare module

class `twindb_cloudflare.twindb_cloudflare.`**`CloudFlare`**(*email*, *auth_key*, *api_endpoint='https://api.cloudflare.com/client/v4'*)

Bases: `object`

Class to work with CloudFlare API https://api.cloudflare.com/

`auth_key`

See "API Key" on https://www.cloudflare.com/a/account/my-account

Returns CloudFlare email

`create_dns_record`(*name*, *zone*, *content*, *data=None*, *record_type='A'*, *ttl=1*)

Create a new DNS record for a zone.

Parameters

- **`name`** – DNS record name - "example.com"
- **`zone`** – zone name
- **`content`** – DNS record content - "127.0.0.1"
- **`data`** – Optional parameters for DNS record. For example, an SRV record for etcd server needs this:

```
{
    "name": "twindb.com",
    "port": 2380,
    "priority": 0,
    "proto": "_tcp",
    "service": "_etcd-server",
    "target": "node0.twindb.com",
    "weight": 0
}
```

- **`record_type`** – DNS record type - "A".
- **`ttl`** – Time to live for DNS record. Value of 1 is 'automatic'

Raise CloudFlareException if error

delete_dns_record(*name*, *zone*)
Delete DNS record

Parameters

- **name** – DNS record name
- **zone** – zone name

Raise CloudFlareException if error

email
See "API Key" on https://www.cloudflare.com/a/account/my-account

Returns CloudFlare authentication key

get_record_id(*domain_name*, *zone_id*)
Get record id by its name

Parameters

- **domain_name** – DNS record name "example.com"
- **zone_id** – zone identified (returned by get_zone_id())

Returns id of the record

Raise CloudFlareException if record is not found or other error

get_zone_id(*name*)
Get zone id of a given zone

Parameters **name** – zone name

Returns id of the zone

Raise CloudFlareException if zone is not found or other error

update_dns_record(*name*, *zone*, *content*, *record_type='A'*, *ttl=1*)
Update DNS record

Parameters

- **name** – domain name
- **zone** – zone identifier
- **content** – content of DNS record. For A records that would be IP address
- **record_type** – DNS record type. "A" by default
- **ttl** – TTL of DNS record. 1 by default

Raise CloudFlareException if record is not found or other error

exception twindb_cloudflare.twindb_cloudflare.**CloudFlareException**
Bases: exceptions.Exception

Exception for CloudFlare errors

4.3 Module contents

CHAPTER 5

Contributing

Contributions are welcome, and they are greatly appreciated! Every little bit helps, and credit will always be given.

You can contribute in many ways:

5.1 Types of Contributions

5.1.1 Report Bugs

Report bugs at https://github.com/twindb/twindb_cloudflare/issues.

If you are reporting a bug, please include:

- Your operating system name and version.
- Any details about your local setup that might be helpful in troubleshooting.
- Detailed steps to reproduce the bug.

5.1.2 Fix Bugs

Look through the GitHub issues for bugs. Anything tagged with "bug" and "help wanted" is open to whoever wants to implement it.

5.1.3 Implement Features

Look through the GitHub issues for features. Anything tagged with "enhancement" and "help wanted" is open to whoever wants to implement it.

5.1.4 Write Documentation

TwinDB CloudFlare Library could always use more documentation, whether as part of the official TwinDB CloudFlare Library docs, in docstrings, or even on the web in blog posts, articles, and such.

5.1.5 Submit Feedback

The best way to send feedback is to file an issue at https://github.com/twindb/twindb_cloudflare/issues.

If you are proposing a feature:

- Explain in detail how it would work.
- Keep the scope as narrow as possible, to make it easier to implement.
- Remember that this is a volunteer-driven project, and that contributions are welcome :)

5.2 Get Started!

Ready to contribute? Here's how to set up *twindb_cloudflare* for local development.

1. Fork the *twindb_cloudflare* repo on GitHub.
2. Clone your fork locally:

```
$ git clone git@github.com:your_name_here/twindb_cloudflare.git
```

3. Install your local copy into a virtualenv. Assuming you have virtualenvwrapper installed, this is how you set up your fork for local development:

```
$ mkvirtualenv twindb_cloudflare
$ cd twindb_cloudflare/
$ python setup.py develop
```

4. Create a branch for local development:

```
$ git checkout -b name-of-your-bugfix-or-feature
```

   Now you can make your changes locally.

5. When you're done making changes, check that your changes pass flake8 and the tests, including testing other Python versions with tox:

```
$ flake8 twindb_cloudflare tests
$ python setup.py test or py.test
$ tox
```

   To get flake8 and tox, just pip install them into your virtualenv.

6. Commit your changes and push your branch to GitHub:

```
$ git add .
$ git commit -m "Your detailed description of your changes."
$ git push origin name-of-your-bugfix-or-feature
```

7. Submit a pull request through the GitHub website.

5.3 Pull Request Guidelines

Before you submit a pull request, check that it meets these guidelines:

1. The pull request should include tests.

2. If the pull request adds functionality, the docs should be updated. Put your new functionality into a function with a docstring, and add the feature to the list in README.rst.
3. The pull request should work for Python 2.6, 2.7, 3.3, 3.4 and 3.5, and for PyPy. Check https://travis-ci.org/twindb/twindb_cloudflare/pull_requests and make sure that the tests pass for all supported Python versions.

5.4 Tips

To run a subset of tests:

```
$ py.test tests.test_twindb_cloudflare
```

CHAPTER 6

Credits

6.1 Development Lead

- TwinDB Development Team <dev@twindb.com>

6.2 Contributors

- Aleksandr Kuzminsky <aleks@twindb.com>
- Ovais Tariq <ovaistariq@twindb.com>

CHAPTER 7

History

7.1 0.1.0 (2016-07-17)

- First release on PyPI.

CHAPTER 8

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