Historical Documentation

Release 0.0.1

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Sep 11, 2017

Contents

Historical is a AWS configuration collection service. It uses a combination of Cloudwatch Events (CWE) and periodic polling to gather and store configuration data from multiple accounts.

Key Features:

- Real-time

- Multi-account

- Serverless architecture

- Region isolation

Installation

Quickstart

Dependencies

Administration

Configuration

Basic Configuration

Developers

Contributing

Want to contribute back to Historical? This page describes the general development flow, our philosophy, the test suite, and issue tracking.

Documentation

If you're looking to help document Historical, you can get set up with Sphinx, our documentation tool, but first you will want to make sure you have a few things on your local system:

- python-dev (if you're on OS X, you already have this)

- pip

- virtualenvwrapper

Once you've got all that, the rest is simple:

```
# If you have a fork, you'll want to clone it instead
git clone git://github.com/netflix/historical.git

# Create a python virtualenv
mkvirtualenv historical

# Make the magic happen
make dev-docs
```

Running `make dev-docs` will install the basic requirements to get Sphinx running.

Building Documentation

Inside the `docs` directory, you can run `make` to build the documentation. See `make help` for available options and the Sphinx Documentation for more information.

Developing Against HEAD

We try to make it easy to get up and running in a development environment using a git checkout of Historical. You'll want to make sure you have a few things on your local system first:

- python-dev (if you're on OS X, you already have this)
- pip
- virtualenv (ideally virtualenvwrapper)
- node.js (for npm and building css/javascript)
- (Optional) PostgreSQL

Once you've got all that, the rest is simple:

```
# If you have a fork, you'll want to clone it instead
git clone git://github.com/historical/historical.git

# Create a python virtualenv
mkvirtualenv historical

# Make the magic happen
make
```

Running `make` will do several things, including:

- Setting up any submodules (including Bootstrap)
- Installing Python requirements
- Installing NPM requirements

Note: You will want to store your virtualenv out of the `historical` directory you cloned above, otherwise `make` will fail.

Coding Standards

Historical follows the guidelines laid out in pep8 with a little bit of flexibility on things like line length. We always give way for the Zen of Python. We also use strict mode for JavaScript, enforced by jshint.

You can run all linters with `make lint`, or respectively `lint-python` or `lint-js`.

Spacing

Python: 4 Spaces

Git hooks

To help developers maintain the above standards, Historical includes a configuration file for Yelp's pre-commit. This is an optional dependency and is not required in order to contribute to Historical.

Running the Test Suite

The test suite consists of multiple parts, testing both the Python and JavaScript components in Historical. If you've setup your environment correctly, you can run the entire suite with the following command:

```
make test
```

If you only need to run the Python tests, you can do so with `make test-python`.

You'll notice that the test suite is structured based on where the code lives, and strongly encourages using the mock library to drive more accurate individual tests.

Note: We use py.test for the Python test suite.

Contributing Back Code

All patches should be sent as a pull request on GitHub, include tests, and documentation where needed. If you're fixing a bug or making a large change the patch **must** include test coverage.

Uncertain about how to write tests? Take a look at some existing tests that are similar to the code you're changing, and go from there.

You can see a list of open pull requests (pending changes) by visiting https://github.com/netflix-skunkworks/historical/pulls

Pull requests should be against **master** and pass all TravisCI checks

Security

Security

We take the security of `historical` seriously. The following are a set of policies we have adopted to ensure that security issues are addressed in a timely fashion.

Reporting a security issue

We ask that you do not report security issues to our normal GitHub issue tracker.

If you believe you've identified a security issue with `historical`, please report it to `cloudsecurity@netflix.com`.

Once you've submitted an issue via email, you should receive an acknowledgment within 48 hours, and depending on the action to be taken, you may receive further follow-up emails.

Supported Versions

At any given time, we will provide security support for the master branch as well as the 2 most recent releases.

Disclosure Process

Our process for taking a security issue from private discussion to public disclosure involves multiple steps.

Approximately one week before full public disclosure, we will send advance notification of the issue to a list of people and organizations, primarily composed of operating-system vendors and other distributors of `historical`. This notification will consist of an email message containing:

- A full description of the issue and the affected versions of `historical`.
- The steps we will be taking to remedy the issue.
- The patches, if any, that will be applied to `historical`.

- The date on which the `historical` team will apply these patches, issue new releases, and publicly disclose the issue.

Simultaneously, the reporter of the issue will receive notification of the date on which we plan to make the issue public.

On the day of disclosure, we will take the following steps:

- Apply the relevant patches to the `historical` repository. The commit messages for these patches will indicate that they are for security issues, but will not describe the issue in any detail; instead, they will warn of upcoming disclosure.

- Issue the relevant releases.

If a reported issue is believed to be particularly time-sensitive – due to a known exploit in the wild, for example – the time between advance notification and public disclosure may be shortened considerably.

The list of people and organizations who receives advanced notification of security issues is not, and will not, be made public. This list generally consists of high-profile downstream distributors and is entirely at the discretion of the `historical` team.

Doing a Release

Doing a release

Doing a release of `historical` requires a few steps.

Bumping the version number

The next step in doing a release is bumping the version number in the software.

- Update the version number in `historical/__about__.py`.
- Set the release date in the *Changelog*.
- Do a commit indicating this.
- Send a pull request with this.
- Wait for it to be merged.

Performing the release

The commit that merged the version number bump is now the official release commit for this release. You will need to have `gpg` installed and a `gpg` key in order to do a release. Once this has happened:

- Run `invoke release {version}`.

The release should now be available on PyPI and a tag should be available in the repository.

Verifying the release

You should verify that `pip install historical` works correctly:

```
>>> import historical
>>> historical.__version__
'...'
```

Verify that this is the version you just released.

Post-release tasks

- Update the version number to the next major (e.g. `0.5.dev1`) in `historical/__about__.py` and

- Add new *Changelog* entry with next version and note that it is under active development

- Send a pull request with these items

- Check for any outstanding code undergoing a deprecation cycle by looking in `historical.utils` for `DeprecatedIn**` definitions. If any exist open a ticket to increment them for the next release.

FAQ

Frequently Asked Questions

Common Problems

How do I

Reference

Changelog

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Authors

A list of additional contributors can be seen on GitHub.

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Version 2.0, January 2004

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CHAPTER 8

Indices and tables

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