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# **coverage2sql Documentation**

*Release 0.0.1.dev126*

**OpenStack Foundation**

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Command to Read a coverage file and put the data in a SQL database

coverage2sql is a tool for storing data of test coverage into a SQL database. With using this tool, you can store time series coverage data and analyze it if your coverage rate is down.

- Free software: Apache license
- Documentation: <https://docs.openstack.org/coverage2sql/latest/>
- Source: <https://opendev.org/openstack/coverage2sql>
- Bugs: <https://bugs.launchpad.net/coverage2sql>
- Contributing: If you are a new contributor to coverage2sql please refer: *So You Want to Contribute*



## INSTALLATION

At the command line:

```
$ pip install coverage2sql
```

Or, if you have virtualenvwrapper installed:

```
$ mkvirtualenv coverage2sql  
$ pip install coverage2sql
```





## 2.1 DB Setup

The usage of `coverage2sql` is split into 2 stages. First you need to prepare a database with the proper schema; `coverage2sql-db-manage` should be used to do this. The utility requires db connection info which can be specified with a config file. Obviously the sql connector type, user, password, address, and database name should be specific to your environment. `coverage2sql-db-manage` will use alembic to setup the db schema. You can run the db migrations with a config file:

```
coverage2sql-db-manage --config-file etc/coverage2sql.conf upgrade head
```

This will bring the DB schema up to the latest version for `coverage2sql`.

## 2.2 coverage2sql

Once you have a database setup with the proper database schema you can then use the `coverage2sql` command to populate the database with data from your test coverage file. `coverage2sql` takes in a `.coverage` file through by passing its file paths as positional arguments to the script at this moment.

For example:

```
coverage2sql --config-file etc/coverage2sql.conf coverage2sql .coverage
```

There are several options for running `coverage2sql`, they can be listed with:

```
coverage2sql --help
```

The only required option is `--database-connection`. The options can either be used on the CLI, or put in a config file. If a config file is used you need to specify the location on the CLI.

## 2.3 Using in project

To use `coverage2sql` in a project:

```
import coverage2sql
```

## 2.4 TODO

To see the TODO, go to the launchpad site:

- <https://bugs.launchpad.net/coverage2sql>
- <https://blueprints.launchpad.net/coverage2sql>

## 2.5 ChangeLog

To see the release notes go here: <https://docs.openstack.org/releasenotes/coverage2sql/>

## SO YOU WANT TO CONTRIBUTE

For general information on contributing to OpenStack, please check out the [contributor guide](#) to get started. It covers all the basics that are common to all OpenStack projects: the accounts you need, the basics of interacting with our Gerrit review system, how we communicate as a community, etc.

Below will cover the more project specific information you need to get started with coverage2sql.

### 3.1 Communication

- IRC channel `#openstack-qa` at OFTC
- Mailing list (prefix subjects with `[qa]` for faster responses) <http://lists.openstack.org/cgi-bin/mailman/listinfo/openstack-discuss>

### 3.2 Contacting the Core Team

Please refer to the [coverage2sql Core Team](#) contacts.

### 3.3 New Feature Planning

If you want to propose a new feature please read [Feature Proposal Process](#) coverage2sql features are tracked on [Launchpad BP](#).

### 3.4 Task Tracking

We track our tasks in [Launchpad](#).

If you're looking for some smaller, easier work item to pick up and get started on, search for the `low-hanging-fruit` tag.

### 3.5 Reporting a Bug

You found an issue and want to make sure we are aware of it? You can do so on [Launchpad](#). More info about Launchpad usage can be found on [OpenStack docs page](#)

### 3.6 Getting Your Patch Merged

All changes proposed to the coverage2sql requires two `Code-Review +2` votes from coverage2sql core reviewers before one of the core reviewers can approve patch by giving `Workflow +1` vote.

### 3.7 Project Team Lead Duties

All common PTL duties are enumerated in the [PTL guide](#).

The Release Process for QA is documented in [QA Release Process](#).

## INDICES AND TABLES

- [OpenStack wide search](#): Search the wider set of OpenStack documentation, including forums.