cwmon-mysql

Release 0.5.0

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CHAPTER 1

Overview

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A cwmon plugin for monitoring MySQL.

- Free software: BSD license

1.1 Installation

```
pip install cwmon-mysql
```

1.2 Documentation

https://cwmon-mysql.readthedocs.io/

1.3 Development

To run the all tests run:

```
tox
```

Note, to combine the coverage data from all the tox environments run:

Windows	`set PYTEST_ADDOPTS=--cov-append` `tox`
Other	`PYTEST_ADDOPTS=--cov-append tox`

CHAPTER 2

Installation

At the command line:

```
pip install cwmon-mysql
```

CHAPTER 3

Usage

3.1 Monitoring a MySQL instance

Once you've install `cwmon-mysql`, using it is as simple as invoking `cwmon mysql`. The following caveats apply:

1. Your AWS API credentials need to be available in a manner understandable by boto3.
2. You need to provide valid connection info for the MySQL instance to be monitored.

To be truly useful, you probably need to automate this. The most straightforward way to do this is probably via a crontab entry, e.g.,

```
3 * * * * cwmon mysql deadlocks uptime running_threads questions
  slow_queries open_files open_tables seconds_behind_master
```

CHAPTER 4

Reference

4.1 cwmon_mysql

CHAPTER 5

Contributing

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

5.1 Bug reports

When 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.

5.2 Documentation improvements

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

5.3 Feature requests and feedback

The best way to send feedback is to file an issue at https://github.com/RescueTime/cwmon-mysql/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 code contributions are welcome :)

5.4 Development

To set up *cwmon-mysql* for local development:

1. Fork cwmon-mysql (look for the "Fork" button).
2. Clone your fork locally:

```
git clone git@github.com:your_name_here/cwmon-mysql.git
```

3. Create a branch for local development:

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

   Now you can make your changes locally.

4. When you're done making changes, run all the checks, doc builder and spell checker with tox one command:

```
tox
```

5. 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
```

6. Submit a pull request through the GitHub website.

5.4.1 Pull Request Guidelines

If you need some code review or feedback while you're developing the code just make the pull request.

For merging, you should:

1. Include passing tests (run `tox`) [1].
2. Update documentation when there's new API, functionality etc.
3. Add a note to `CHANGELOG.rst` about the changes.
4. Add yourself to `AUTHORS.rst`.

5.4.2 Tips

To run a subset of tests:

```
tox -e envname -- py.test -k test_myfeature
```

To run all the test environments in *parallel* (you need to `pip install detox`):

```
detox
```

[1] If you don't have all the necessary python versions available locally you can rely on Travis - it will run the tests for each change you add in the pull request.
It will be slower though ...

CHAPTER 6

Authors

- Hank Gay - http://www.rescuetime.com/

CHAPTER 7

Changelog

7.1 0.5.0 (2016-10-18)

7.1.1 Changes

- Update version of cwmon dependency. [Hank Gay]

7.1.2 Other

- Bump version: 0.4.0 → 0.5.0. [Hank Gay]
- Merge branch 'release/0.4.0' into develop. [Hank Gay]

7.2 0.4.0 (2016-10-17)

7.2.1 Changes

- Update changelog. [Hank Gay]
- Bump version requirement for cwmon. [Hank Gay]

7.2.2 Fix

- Send 0 instead of None. [Hank Gay]
- Send 0 instead of '0' when no deadlocks detected. [Hank Gay]

7.2.3 Other

- Bump version: 0.3.0 → 0.4.0. [Hank Gay]
- Merge branch 'release/0.3.0' into develop. [Hank Gay]
- Provide actual usage sample. [Hank Gay]
- Allow command chaining. [Hank Gay]
- Send 0 instead of None for metrics values. [Hank Gay]

7.3 0.3.0 (2016-10-17)

7.3.1 New

- Provide actual usage sample. [Hank Gay]
- Allow command chaining. [Hank Gay]

7.3.2 Changes

- Update changelog. [Hank Gay]
- Send booleans as 1 (True) or 0 (False). [Hank Gay]

7.3.3 Fix

- Send 0 instead of None for metrics values. [Hank Gay]

7.3.4 Other

- Merge branch 'release/0.3.0' [Hank Gay]
- Bump version: 0.2.2 → 0.3.0. [Hank Gay]
- Merge branch 'release/0.2.2' into develop. [Hank Gay]
- Use integers for metric values where appropriate. [Hank Gay]
- Merge branch 'release/0.2.1' into develop. [Hank Gay]

7.4 0.2.2 (2016-10-14)

7.4.1 Changes

- Update changelog. [Hank Gay]

7.4.2 Fix

- Send booleans as 1 (True) or 0 (False). [Hank Gay]
- Use integers for metric values where appropriate. [Hank Gay]

7.4.3 Other

- Merge branch 'release/0.2.2' [Hank Gay]
- Bump version: 0.2.1 → 0.2.2. [Hank Gay]

7.5 0.2.1 (2016-10-13)

- Merge branch 'release/0.2.1' [Hank Gay]
- Update changelog. [Hank Gay]
- Bump version: 0.2.0 → 0.2.1. [Hank Gay]
- Merge branch 'release/0.2.0' into develop. [Hank Gay]

7.6 0.2.0 (2016-10-13)

7.6.1 New

- Expose new metrics on CLI. [Hank Gay]
- Happy path tests for new metrics. [Hank Gay]
- Add initial test for metrics. [Hank Gay]
- Add happy-path test of deadlocks subcommand. [Hank Gay]
- First draft of CLI for new deadlocks metric. [Hank Gay]
- First draft of an actual MySQL metric (InnoDB deadlocks). [Hank Gay]
- Add 'echo' subcommand to aid in debugging. [Hank Gay]
- Make all MySQL commands accept connection parameters. [Hank Gay]
- Stub in a MySQL command group under 'cwmon'. [Hank Gay]

7.6.2 Changes

- Tell Travis to run MySQL for us. [Hank Gay]
- Make deadlocks metric robust on non-Percona servers. [Hank Gay]
- Use real MySQL connection (as pytest fixture) when testing metrics. [Hank Gay]
- Change the defaults to improve testability. [Hank Gay]
- Remove 'echo' command, since we have an actual command now. [Hank Gay]
- Pull MySQL credentials from env vars to improve testability. [Hank Gay]
- Remove trailing blank line. [Hank Gay]

7.6.3 Fix

- Fix Seconds Behind Master metric (it was trying to use wrong status info as datasource). [Hank Gay]
- Stop manually associating mysql subgroup to cwmon group. [Hank Gay]

  The click-plugins library is already taking care of that for me. Removing the code that attempts to make the association manually causes the subgroup to start loading properly.

7.6.4 Other

- Merge branch 'release/0.2.0' [Hank Gay]
- Update changelog. [Hank Gay]
- Bump version: 0.1.0 → 0.2.0. [Hank Gay]
- Dev: Add dependency on oursql. [Hank Gay]
- Register the 'mysql' command group as a plugin to cwmon. [Hank Gay]
- Doc: Fix license file to identify RescueTime as the copyright holder. [Hank Gay]
- Doc: Fix RST for coveralls badge. [Hank Gay]
- Doc: linkify 'cwmon' in short description. [Hank Gay]
- Doc: Do some badge tweaking. [Hank Gay]
- Don't point Travis-CI to non-existent tox envs. [Hank Gay]
- Doc: list 'tox' as a dev dependency. [Hank Gay]
- Doc: List some basic dev dependencies. [Hank Gay]
- Doc: Update package keywords. [Hank Gay]
- Stop pretending to support Python 2; this is Python 3-only. [Hank Gay]
- Doc: Point to RescueTime org instead of personal account for 3rd-party support services. [Hank Gay]
- Tell bumpversion not to tag in git (because we use git flow for that). [Hank Gay]
- Initial project skeleton. [Hank Gay]

CHAPTER 8

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