
Bashate Documentation

Release 2.1.2.dev5

Bashate Authors

Nov 26, 2024

CONTENTS

1	bashate	1
1.1	Currently Supported Checks	1
2	Installation	3
3	Using bashate	4
3.1	Usage	4
3.2	bashate man page	4
4	Contributing	6
4.1	So You Want to Contribute	6
5	Indices and tables	7

BASHATE

A pep8 equivalent for bash scripts

This program attempts to be an automated style checker for bash scripts to fill the same part of code review that pep8 does in most OpenStack projects. It started from humble beginnings in the DevStack project, and will continue to evolve over time.

The output format aims to follow `pycodestyle` (pep8) default output format.

- Free software: Apache license
- Documentation: <https://docs.openstack.org/bashate>
- Source: <https://opendev.org/openstack/bashate/>
- Bugs: <https://bugs.launchpad.net/bash8>
- Release notes: <https://docs.openstack.org/releasesnotes/bashate/index.html>
- Contributing: <https://docs.openstack.org/bashate/latest/contributor/index.html>

1.1 Currently Supported Checks

1.1.1 Errors

Basic white space errors, for consistent indenting

- E001: check that lines do not end with trailing whitespace
- E002: ensure that indents are only spaces, and not hard tabs
- E003: ensure all indents are a multiple of 4 spaces
- E004: file did not end with a newline
- E005: file does not begin with `#!` or have a `.sh` prefix
- E006: check for lines longer than 79 columns

1.1.2 Structure Errors

A set of rules that help keep things consistent in control blocks. These are ignored on long lines that have a continuation, because unrolling that is kind of interesting

- E010: *do* not on the same line as *for*
- E011: *then* not on the same line as *if* or *elif*
- E012: heredoc didnt end before EOF

- E020: Function declaration not in format `^function name {$`

1.1.3 Obsolete, deprecated or unsafe syntax

Rules to identify obsolete, deprecated or unsafe syntax that should not be used

- E040: Syntax errors reported by *bash -n*
- E041: Usage of `$[` for arithmetic is deprecated for `$((`
- E042: local declaration hides errors
- E043: arithmetic compound has inconsistent return semantics
- E044: Use `[[` for `=~,<,>` comparisons

1.1.4 See also

See also *bashate man page*.

INSTALLATION

At the command line:

```
$ pip install bashate
```

Or, if you have virtualenvwrapper installed:

```
$ mkvirtualenv bashate  
$ pip install bashate
```

USING BASHATE

3.1 Usage

To use bashate in a project:

```
import bashate
```

3.2 bashate man page

3.2.1 SYNOPSIS

bashate [options] <file> [files]

3.2.2 DESCRIPTION

The **bashate** command line utility is a style-checker for bash scripts.

The name is derived from **pep8**, a Python lint-type tool.

3.2.3 OPTIONS

--help, -h	Print help
--verbose, -v	Verbose output
--ignore, -i	Tests to ignore, comma separated
--error, -e	Tests to trigger errors instead of warnings, comma separated
--warn, -w	Tests to trigger warnings instead of errors, comma separated

3.2.4 EXAMPLES

Run all tests on a single file:

```
bashate file.sh
```

Run tests on several files, while also ignoring several errors:

```
bashate -i E010,E011 file.sh file2.sh
```

3.2.5 BUGS

<http://bugs.launchpad.net/bash8>

CONTRIBUTING

4.1 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 Bashate.

4.1.1 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>

4.1.2 Contacting the Core Team

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

4.1.3 New Feature Planning

If you want to propose a new feature please read [Feature Proposal Process](#)

4.1.4 Task Tracking

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

4.1.5 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](#)

4.1.6 Getting Your Patch Merged

All changes proposed to the Bashate requires single [Code-Review](#) +2 votes as minimum from Bashate core reviewers who can approve patch by giving [Workflow](#) +1 vote.

4.1.7 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

- genindex
- modindex
- search