License Notice

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The Salt project is open and encouraging to code contributions. Please be

advised that all code contributions will be licensed under the Apache 2.0

License. We cannot accept contributions that already hold a License other

than Apache 2.0 without explicit exception.

Reporting Issues

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The Salt issue tracker is used for feature requests and bug reports.

Bugs

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A bug is a \*demonstrable problem\* that is caused by the code in the repository.

Please read the following guidelines before you

[report an issue](https://github.com/saltstack/salt/issues).

1. \*\*Use the GitHub issue search\*\* -- check if the issue has

already been reported. If it has been, please comment on the existing issue.

2. \*\*Check if the issue has been fixed\*\* — Various point-release branches, such

as ``2016.3``, ``2016.11``, or even ``develop``, may already contain

a fix. Please try to reproduce the bug against the latest git ``HEAD`` or

the latest release.

3. \*\*Isolate the demonstrable problem\*\* -- make sure that the

code in the project's repository is \*definitely\* responsible for the issue.

4. \*\*Include a reproducible example\*\* -- Provide the steps which

led you to the problem.

Please try to be as detailed as possible in your report, too. What is your

environment? What steps will reproduce the issue? What Operating System? What

would you expect to be the outcome? All these details will help people to

assess and fix any potential bugs.

\*\*Including the output of\*\* ``salt --versions-report`` \*\*will always help.\*\*

Valid bugs will be categorized for the next release and worked on as quickly

as resources can be reasonably allocated.

Features

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Salt is always working to be more powerful. Feature additions and requests are

welcomed. When requesting a feature it will be categorized for a release or

placed under the "Feature" label.

If a new feature is desired, the fastest way to get it into Salt is to

contribute the code. Before starting on a new feature, an issue should be filed

for it. The one requesting the feature will be able to then discuss the feature

with the Salt team and discover the best way to get the feature into Salt and

if the feature makes sense.

It is extremely common that the desired feature has already been completed.

Look for it in the docs, ask about it first in IRC, and on the mailing list

before filing the request. It is also common that the problem which would be

solved by the new feature can be easily solved another way, which is a great

reason to ask first.

Fixing issues

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If you wish to help us fix the issue you're reporting,

[Salt's documentation](http://docs.saltstack.com/en/master/index.html)

already includes information to help you setup a development environment,

under [Developing Salt](http://docs.saltstack.com/en/master/topics/development/hacking.html).

[SaltStack's Contributing documentation](https://docs.saltstack.com/en/master/topics/development/contributing.html)

is also helpful, as it explains sending in pull requests, keeping your

salt branches in sync, and knowing

[which branch](https://docs.saltstack.com/en/master/topics/development/contributing.html#which-salt-branch)

new features or bug fixes should be submitted against.

Fix the issue you have in hand and, if possible, also add a test case to Salt's

testing suite. Then, create a

[pull request](http://docs.saltstack.com/en/master/topics/development/contributing.html#sending-a-github-pull-request),

and \*\*that's it\*\*!

Salt's development team will review your fix and if everything is OK, your fix

will be merged into Salt's code.

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