

External Plugin Interfaces for OpenStack QA Projects

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https://github.com/mtreinish/external_plugins

What is OpenStack QA?

- ▶ Official Mission Statement:
Develop, maintain, and initiate tools and plans to ensure the upstream stability and quality of OpenStack, and its release readiness at any point during the release cycle.

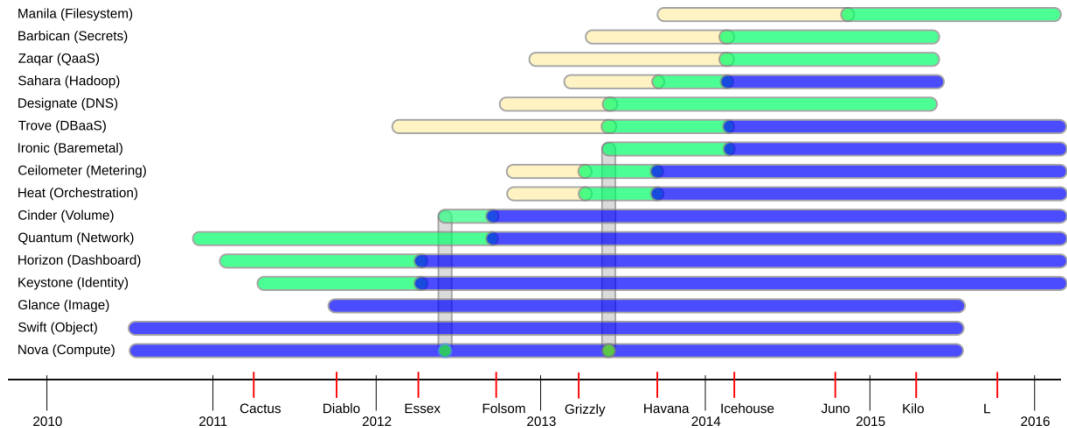
Current QA Projects

- ▶ bashate
- ▶ devstack
- ▶ devstack-plugin-cookiecutter
- ▶ devstack-vagrant
- ▶ grenade
- ▶ tempest
- ▶ tempest-lib
- ▶ tempest-plugin-cookiecutter
- ▶ stackviz
- ▶ hacking
- ▶ eslint-config-openstack
- ▶ os-testr
- ▶ openstack-health dashboard

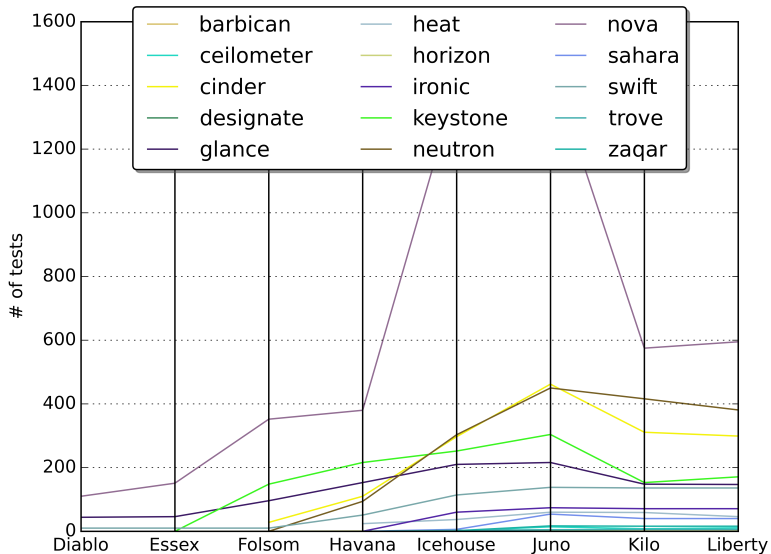
Scaling Limitations

- ▶ Previously QA projects supported all incubated and integrated OpenStack projects

OpenStack Project Growth



Tempest Tests per Project



The Big Tent...

QA projects direct support scope

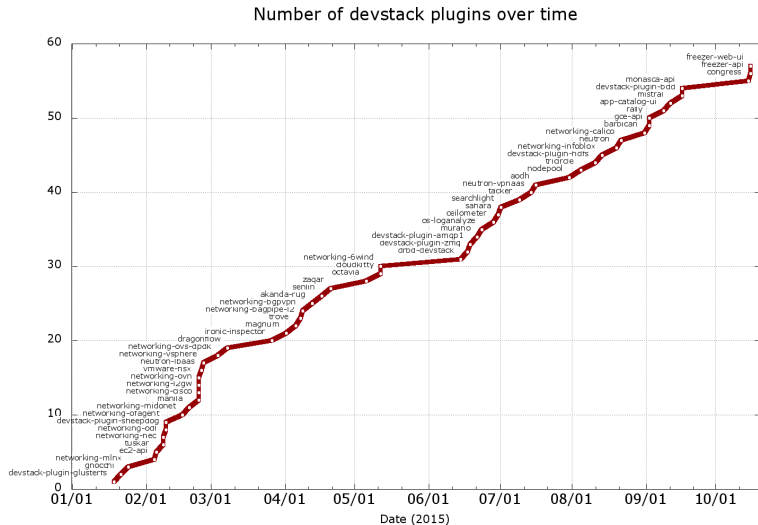
- ▶ Keystone
- ▶ Nova
- ▶ Glance
- ▶ Cinder
- ▶ Neutron
- ▶ Swift

Devstack Plugins

- ▶ Bits of bash code that live outside of devstack tree
- ▶ Called via a strong contract
- ▶ Maintained by the project owners
- ▶ Tested via OpenStack CI

- ▶ Project plugins
 - ▶ Installs new OpenStack service as part of devstack
- ▶ Driver / configuration plugins
 - ▶ Configures existing OpenStack service to use a different driver / backend
- ▶ Registry of plugins maintained by the community:
<http://docs.openstack.org/developer/devstack/plugin-registry.html>

Projects using Devstack Plugins

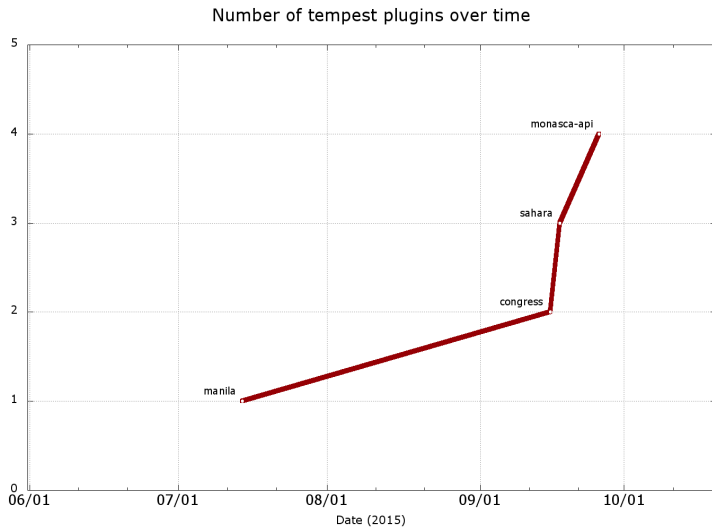


Source: `git log --diff-filter=A --format=%cd --date=short -1 -- devstack/plugin.sh`

Howto write a Devstack Plugin

Tempest Plugins

Projects using tempest plugins

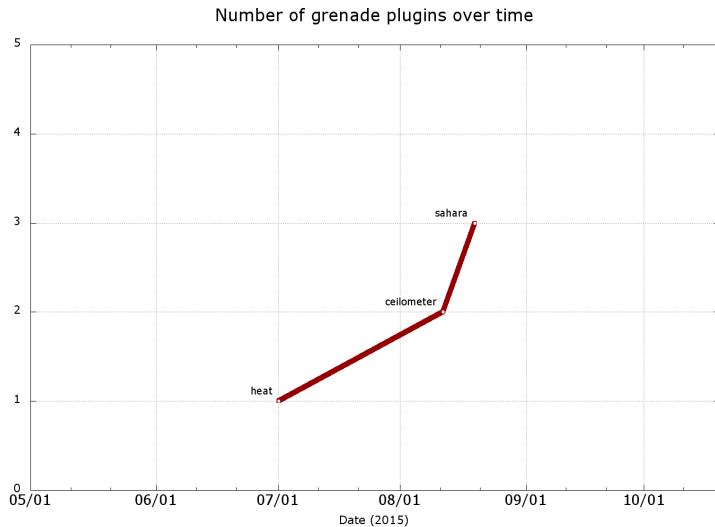


Source: `git blame setup.cfg — egrep ') tempest'`

Howto Write a Tempest Plugin

Grenade Plugins

Projects using Grenade Plugins



Source: `git log --diff-filter=A --format=%cd --date=short -1 -- devstack/upgrade/upgrade.sh`

Howto Write a Grenade Plugin

Where to get more information

- ▶ Tempest Plugin Docs: <http://docs.openstack.org/developer/tempest/plugin.html>
- ▶ Devstack Plugin Docs:
<http://docs.openstack.org/developer/devstack/plugins.html>
- ▶ Grenade Plugin Docs: <http://docs.openstack.org/developer/grenade/plugins.html>
- ▶ openstack-dev ML: openstack-dev@lists.openstack.org
- ▶ #openstack-qa on Freenode

Questions?