

QA in the Open

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<https://github.com/mtreinish/qa-in-the-open>

What do I mean by Open Source QA

- ▶ Doing Software QA in an Open Source manner
- ▶ Includes running tests and hosting results in the public
- ▶ Basically treat a project's QA like any other Open Source project

My Personal Experiences with Enterprise QA



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

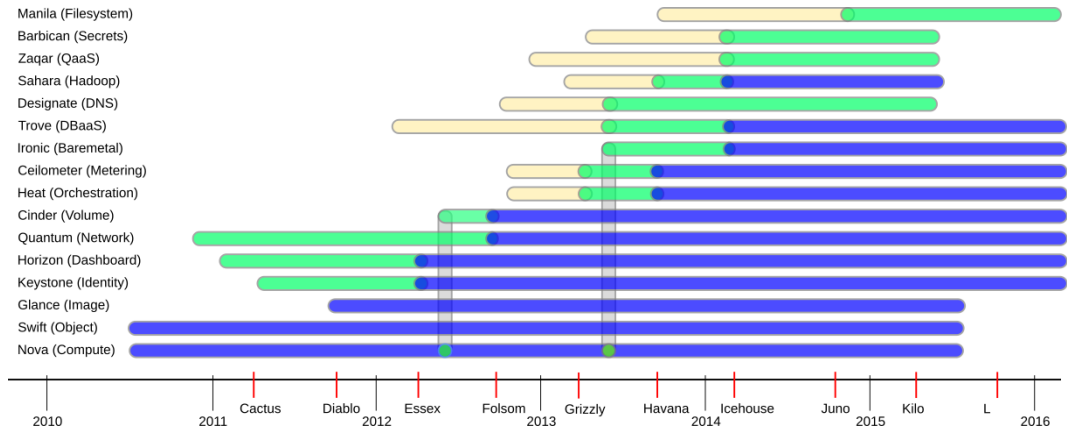
In The Beginning

- ▶ Projects had unit tests
- ▶ Some projects had functional tests
- ▶ Testing was central to OpenStack culture
- ▶ No dedicated effort on QA

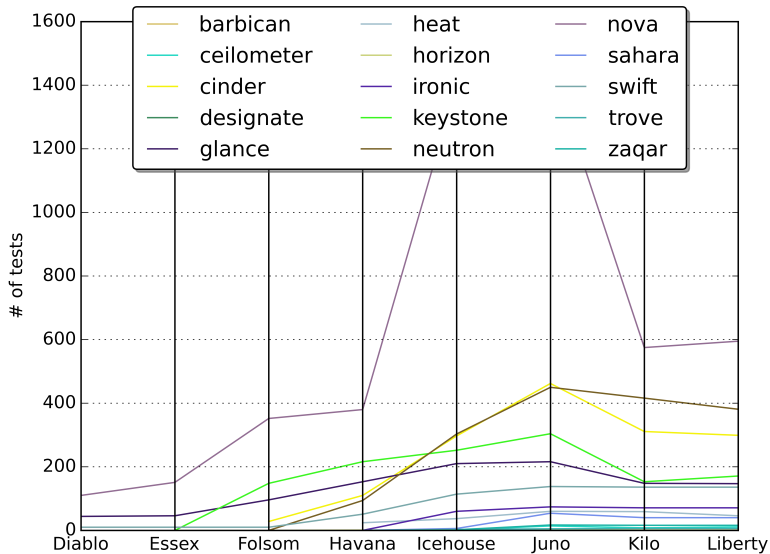
Tempest and becoming a defined group

- ▶ Tempest as separate integrated test suite to run against a deployed cloud
- ▶ 2 years later a separate project was created in governance around QA
- ▶ Slowly consolidated several existing and new projects

OpenStack Project Growth



Tempest Tests per Project



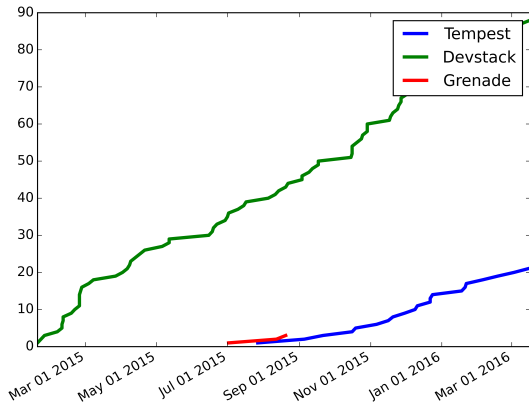
The Big Tent. . .



QA in the Big Tent

- ▶ QA projects now directly support base
- ▶ Provide stable plugin interfaces to expand functionality
- ▶ Better fits with the growth in projects

Lessons from OpenStack QA



- ▶ Monolithic and Separate doesn't scale
- ▶ Keeping Things Separate increases friction

Advantages

- ▶ Enables external audit of testing
- ▶ User confidence in project
- ▶ Enables independently repeatable testing
- ▶ Reusable components

Potential Issues

- ▶ Lack of Corporate Contribution
- ▶ Limited Free Resources for running tests
- ▶ Sometimes difficult to get community buy in

Where to get more information

- ▶ openstack-dev ML openstack-dev@lists.openstack.org
- ▶ #openstack-qa on Freenode
- ▶ <https://wiki.openstack.org/wiki/QA>

Questions?