

# External Plugin Interfaces for OpenStack QA Projects

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[https://github.com/mtreinish/external\\_plugins](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.*

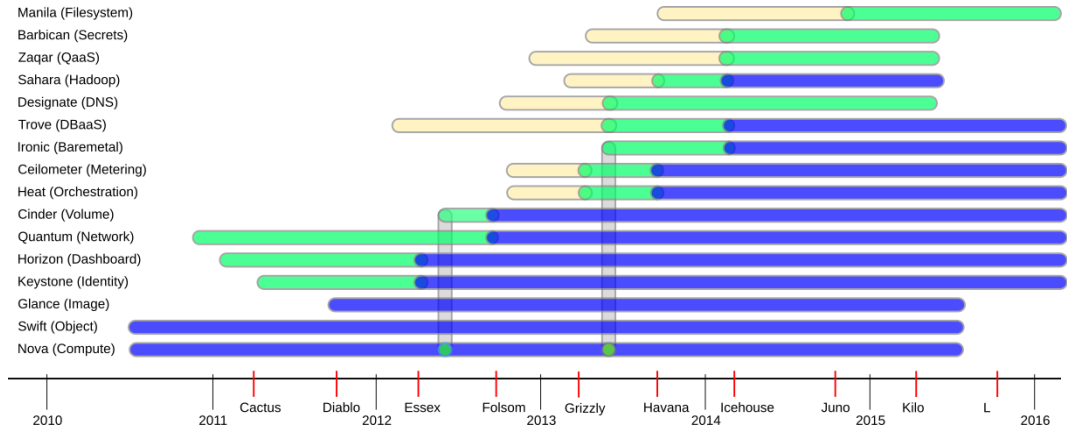
## Current QA Projects

- ▶ 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



# 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



## Projects using Devstack Plugins

- ▶ Registry of plugins maintained by the community:  
<http://docs.openstack.org/developer/devstack/plugin-registry.html>

# Howto write a Devstack Plugin

# Tempest Plugins

## Projects using tempest plugins

# Howto Write a Tempest Plugin

# Grenade Plugins

## Projects using Grenade Plugins

## 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](mailto:openstack-dev@lists.openstack.org)
- ▶ #openstack-qa on Freenode



Questions?