OpenStack QA Project Overview and Update

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https://github.com/afrittoli/qa-project-update

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an OpenStack Community Project

OpenStack QA Overview

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.
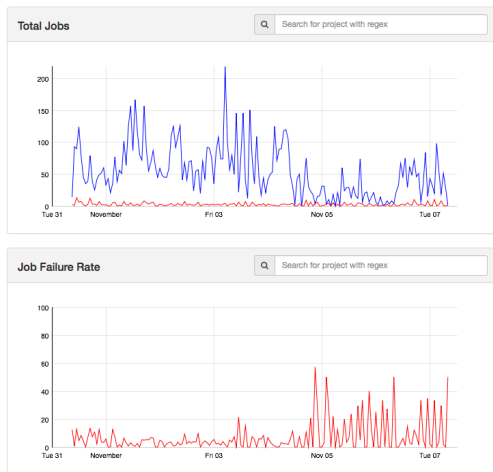
Current QA Projects

- devstack
- devstack-tools
- tempest
- patrole
- grenade
- hacking
- bashate
- eslint-config-openstack

- openstack-health dashboard
- stackviz
- os-testr
- devstack-plugin-cookiecutter
- tempest-plugin-cookiecutter
- os-performance-tools
- devstack-plugin-ceph
- devstack-vagrant

Things we do

- Community driven approach to QA
- Serve the OpenStack community
- Drive testing best practices
- Maintain test tools and frameworks
- Keep the gate running smoothly
- Support interoperability testing efforts

OpenStack Health is a dashboard for visualizing test results of OpenStack CI jobs.

Updates from Queens

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Tempest

- Several Tempest APIs are now stable
  - Credential providers
  - Service clients
  - Test base class (for plugins)
- Scenario code cleanup

Tempest Plugins Goal

- https://governance.openstack.org/tc/goals/queens/split-tempest-plugins.html
- https://docs.openstack.org/tempest/latest/plugin-registry.html

Test Runners

- stestr: http://stestr.readthedocs.io/en/latest/
- os-testr
- tempest

ZuulV3 Related Work

- Devstack base job in Devstack Repo - WIP
- Tempest base job in Tempest Repo - WIP
- Grenade base job TBD
- Keep OpenStack Health working

Patrole

- Multi policy testing - WIP

Community

- QA Office Hours
- Bug triage czar

Queens, Rocky and forward

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Priorities

- Tempes plugins: goal support
- Complete Zuulv3 Base Jobs
- Monitor gate performance over time
- Mentor new contributors
- Synergies with other communities

Potential developments

- Costellation testing
- Cross community testing
- HA testing

Questions?