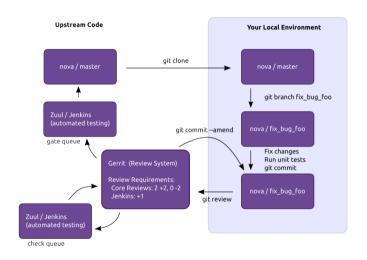
OpenStack-Health dashboard and Dealing with Data from the Gate

Matthew Treinish mtreinish@kortar.org mtreinish on Freenode

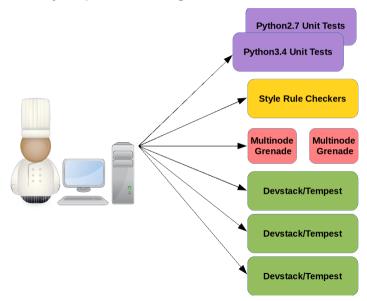
April 25, 2015

https://github.com/mtreinish/openstack-health-presentation

The OpenStack Gate



What Happens when you push a change?



The Size of the Gate

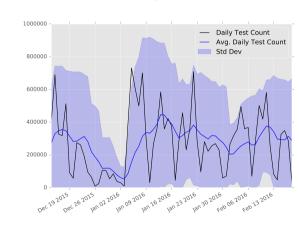
One Proposed Change Generates:

- ▶ 5-25 Devstacks
- ► ~10,000 integration tests (roughly 1.5k per devstack)
- ► ~180 2nd level guests brought up in devstack
- ► ~1 GB of logs uncompressed for each tempest run

In aggregate:

- ► ~12,500 jobs run in check and gate daily
- ► ~0.01% individual tempest test failure rate
- ► ~.77% tempest run failure rate

Number of Tempest Tests per Day in the Gate Queue:

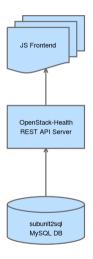


Existing Data Sources

- ► Log Server: http://logs.openstack.org/
- ▶ elasticsearch, logstash, and kibana
- ► graphite and grafana
- ► elastic-recheck
- subunit2sql

What is OpenStack-Health

OpenStack-Health Architecture



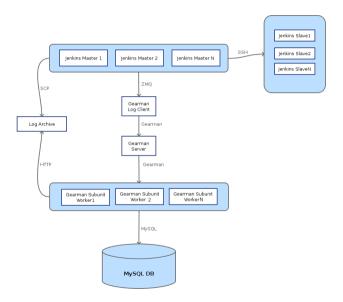
API Server

- ► Wraps subunit2sql DB API using flask
- ► Runs at http://health.openstack.org
- ► Continously Deployed on every commit
- ▶ Not intended for external consumption (Read as: it will change on you)

subunit2sql



subunit2sql Data Collection



Frontend

- ► Built using AngularJS and NVD3
- ► Calls API server for data and renders in browser
- •
- ► Continously Deployed on Every Commit

Using OpenStack Health

Current Limitations

- ► Only data from gate and periodic queues
- ▶ Only catches failures without subunit data (or that occur before or after subunit generation)

Next Steps

- ▶ Include other data sources:
 - Use zuul as source for run/job level data
 - ► Integrate elastic-recheck data for run_failures
- ► Include data from check and experimental queues

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Where to get more information

- openstack-dev ML openstack-dev@lists.openstack.org
- ► #openstack-qa on Freenode
- http://git.openstack.org/cgit/openstack/openstack-health/
- http://git.openstack.org/cgit/openstack-infra/subunit2sql

Questions?