

Testing at Scale

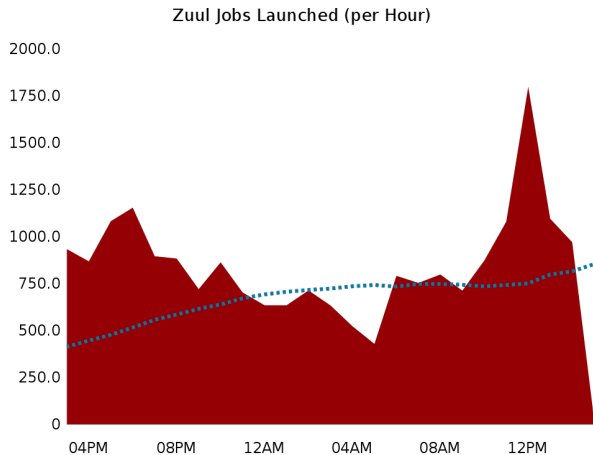
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https://github.com/andreafrittoli/testing_at_scale

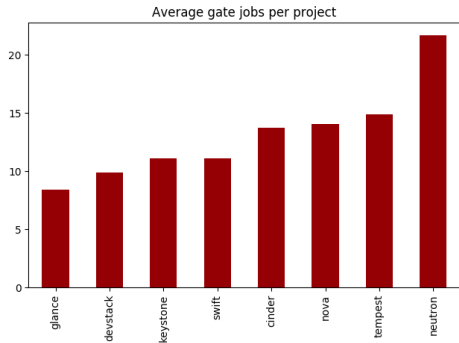
OpenStack CI in Numbers

- ▶ ~1500 contributors to Pike
- ▶ 6 Clouds + 2 run by OpenStack Infra
- ▶ 1600+ repos in openstack(|-dev|-infra)
- ▶ 20k lines Zuul configuration

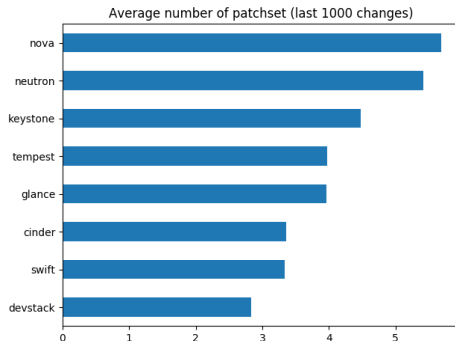


Source: Zuul, Graphite

Life as a contributor



Source: subunit2sql DB



Source: Gerrit API

My day in reviews

- Change in devstack:

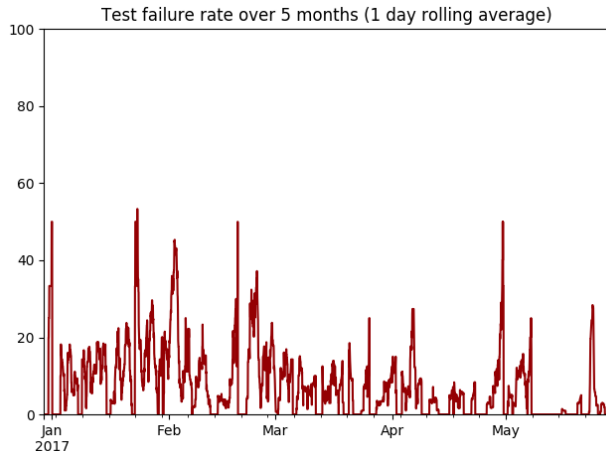
```
536      +      if [ -z "$VRIT_DRIVER" ]; then
537      +          # If there is not virt driver defined we assume nova is not installed
538      +          iniset $TEMPEST_CONFIG service_available nova "False"
539      +      fi
540      +
```

Source: <https://review.openstack.org/468060>

- CI reports all green
- Can you see the error?

Keep the gate flowing

- ▶ Number of services
- ▶ Service memory footprint
- ▶ Test load
- ▶ Libvirt instability under load
- ▶ Tempest bug in ssh test code
- ▶ Vanilla database configuration



Source: Zuul, Graphite

How it works

- ▶ TBD

Data!

- ▶ Logs and their size in integration gate
- ▶ Test result data
- ▶ Zuul data

Beyond the gate

- ▶ Periodic jobs

Tools

- ▶ TBD

More Automation

- ▶ TBD

Deeper into data

- ▶ TBD

Playing with AI

► TBD

References



Thank you!
Questions?