

Testing at Scale

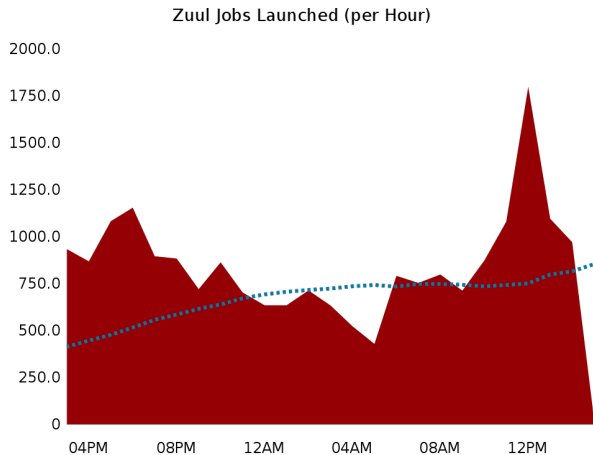
Andrea Frittoli
andrea.frittoli@gmail.com
andreaaf on Freenode
@blackchip76 on Twitter

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https://github.com/andreafrittoli/testing_at_scale

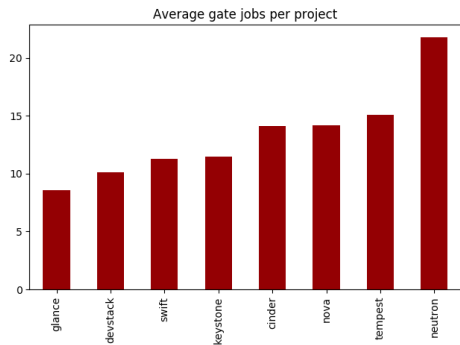
OpenStack CI in Numbers

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

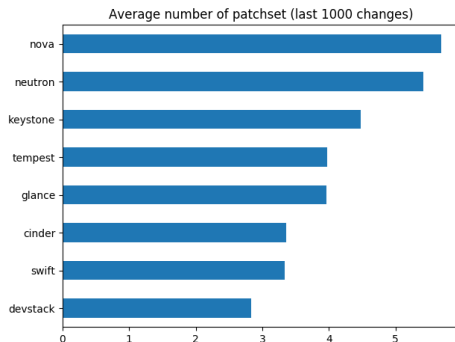


Source: Zuul, Graphite

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/#/c/468060/2/lib/tempest@536>

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

Keep the gate flowing

- ▶ List of gate issues at beginning of pike

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

Thank you!
Questions?