## Testing at Scale

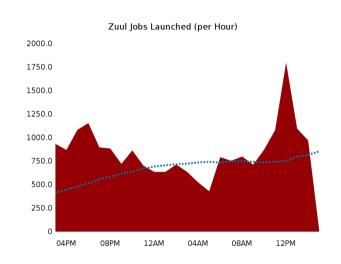
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Jun 2, 2017

https://github.com/andreafrittoli/testing\_at\_scale

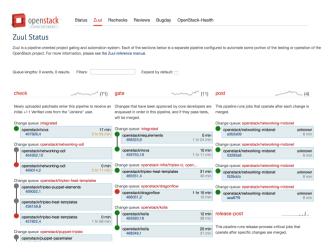
#### OpenStack CI in Numbers

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



Source: Zuul, Graphite

## Testing OpenStack



Source: http://status.openstack.org/zuul

- ► Release ready master
- ▶ Check & Gate Pipelines
- Ephemeral test system

# Beyond the gate

► Periodic jobs, post etc

#### The unbalanced scale

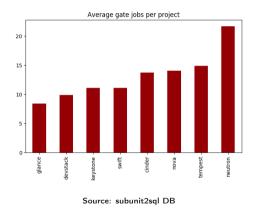
- Core reviewers
- ► Horizontal teams
- Running CI

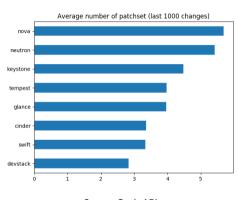


- ► Commits
- ▶ # of Tests
- ► # of Configurations

Not the scale I meant...

#### Life as a contributor





## My day in reviews

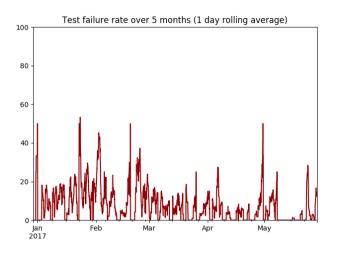
► Change in devstack:

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

#### Data!

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

## Tools

► TBD

## Deeper into data

► TBD

# Playing with AI

► TBD

#### References



# Thank you! Questions?