ZUUL AND OTHER OPENSTACK TOOLS

USAGE AT LEBONCOIN: THE ODYSSEY
HELLO!

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1. ONCE UPON A TIME
A quick history of OpenStack dev tools
GATING FROM DAY 0

bzr
- Distributed VCS

Tarmac
- Branch merging

Launchpad
- Code review

Tarmac
- Basic serial gating
DAY 1: FORMAL GATING

bzr
Distributed VCS

Tarmac
Branch merging

Launchpad
Code review

Jenkins
Serial gating
DAY 1: FORMAL GATING

bzr

Distributed VCS

Tarmac
Branch merging

Launchpad
Code review

Jenkins
Serial gating

Jenkins
Post-merge jobs
DAY 2: ADDING CHECKS

- git
  - Distributed VCS
- Gerrit
  - Branch merging
- Jenkins
  - Serial gating
  - Post-merge jobs
- Jenkins
  - Check tests
DAY 3: ZUUL

- git
  - Distributed VCS
- Gerrit
  - Branch merging
- Gerrit
  - Code review
- Zuul
  - Speculative gating
- Zuul
  - Post-merge jobs
- Zuul
  - Check tests
DAY 4: AUTOMATE ALL THE THINGS

- Documentation (sphinx)
- Release requests
- Release notes (reno)
- Release highlights
2. LEBONCOIN

"Is that about Blockchain ?!"
EASE LOCAL TRANSACTION

leboncoin is a type of exchange platform that simplifies access to consumption, favors local relations and opens access to digital in a tool at the service of all.
28,000,000+
Monthly unique users

27,000,000+
Active classified ads

5th
Browsed website in France
5,000+ Reviews*

16,000+ Package builds*

150+ Developers**

17,000+ Patchsets*

20,000+ Deployments*

7 EngProd members**

* Per month  ** Not per month
3.

THE ODYSSEY

“The journey is the thing”
KEEPING IT SIMPLE
YEAR AFTER YEAR
2015: THE ORIGIN

Gerrit
Code review

Jenkins
Serial gating
2016: FORMAL TOOLING

- Gerrit: Code review
- git-review: Code review tooling
- Reno: Release Notes
- Jenkins: Serial gating
- JJB: Jobs descriptions
- Sphinx: Documentation
2017: ZUUL

Game on!
2017: GATING LIMITATION

Gerrit
Code review

Jenkins
Master instance

Jenkins
Slave worker

Jenkins
Slave worker

Jenkins
Slave worker

Jenkins
Slave worker
2017: GATING LIMITATION

Gerrit
Code review

Jenkins
Master instance

Jenkins
Master instance

Jenkins
Master instance
2017: ZUUL GATING

- Gerrit: Code review
- Zuul: Serial gating
- Jenkins Master instance
- Jenkins Master instance
- Jenkins Master instance
2017: ZUUL PIPELINES

- Gerrit (Code review)
- Gerrit (Change merging)
- Zuul (Build pipeline)
- Zuul (Integration pipeline)
- Zuul (Quality pipeline)
- Distributed VCS

- Tests jobs
- Post-merge pipeline
- Post-commit jobs
- Post-merge jobs
- Tag release pipeline
2018: ZUUL V3
Level-up!
2018: WHY MIGRATING TO ZUUL V3?

- Scalable & Distributed
- Ansible way
- No more Jenkins!
- GitHub integration
- And more...
2018: ZUUL V3 + OPENSTACK

Gerrit
Code review

Zuul v3
Serial Gating

Nodepool
Managing node resources

Openstack
Cloud Platform
2018: ZUUL V3 QUICK LOOK

- Zuul
  - Web
- Zuul
  - Scheduler
- Zuul
  - Merger
- Zuul
  - Executor
- Nodepool
  - Launcher
- Nodepool
  - Builder

Openstack
  Cloud Platform
2018: ZUUL V3 AT LEBONCOIN
OVERVIEW OF THE STACK CHANGES

2015

- Gerrit
  Code review

- Jenkins
  Serial gating

2018

- Gerrit
  Code review

- Zuul v3
  Serial Gating

- Nodepool
  Managing node resources

- Openstack
  Cloud Platform

- git-review
  review tooling

- Reno
  Release Notes

- Sphinx
  Documentation
TIPS & TRICKS!

Read the doc &
code repos

Benchmarking is
important

Explicit naming
conventions

Keep in touch with
the team (irc...)

Keep an eye on it
Monit, graph...

Fine tuning of tools
is authorized :)
THANKS!

Any questions?

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“A man who has been through bitter experiences and travelled far enjoys even his sufferings after a time”

— Homer, The Odyssey