

Main page Recent changes Server admin log (Prod) Server admin log (RelEng) Deployments SRE/Operations Help Incident status

Cloud VPS & Toolforge

Cloud VPS Toolforge documentation Request Cloud VPS project Server admin log (Cloud

What links here Related changes Special pages Permanent link Page information Cite this page

Print/export

Download as PDF Printable version

Page Discussion

Read View source View history

Search Wikitech

Q

Toolforge webservices are in the final stages of migrating to the toolforge.org domain. Please help us clean up older documentation referring to tools.wmflabs.org!

# Incident documentation/20190506-zuul

< Incident documentation

#### Contents [hide]

- 1 Summary
  - 1.1 Impact
  - 1.2 Detection
- 2 Timeline
  - 2.1 Incident 1
  - 2.2 Incident 2
- 3 Conclusions
  - 3.1 What went well?
  - 3.2 What went poorly?
  - 3.3 Where did we get lucky?
- 4 Links to relevant documentation
- 5 Actionables

# Summary

CI was unresponsive and was not voting on Gerrit patches. It then had a very slow response time in processing changes. Those are two distinct events having different root causes, but in the end cause a bad user experience.

#### **Impact**

The incident affected Zuul, the CI system. It affected any CI user, mainly SREs, developers and volunteers which were not getting CI jobs running for their patches or, later with a very large delay.

#### Detection

An Icinga error got reported but not immediately taken in account by releng

SRE reported errors on #-operations, #-releng, #\_security and directly to Antoine "hashar" Musso

# **Timeline**

# All times in UTC.

#### Incident 1

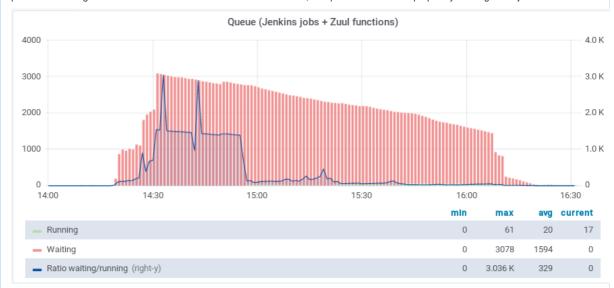
- 09:26 Antoine deploys Zuul config change https://phabricator.wikimedia.org/T105474₽
- 10:00 CI reported processing times skyrocket for many repositories.
- 10:33: second to last operations/puppet patch processed
- 10:35 Giuseppe (and then Arturo) notice CI is down. Attempts to reach anyone in release engineering in IRC fail.
- 11:18: final operations/puppet patch processed before fix
- 11:30(approx): People complain about CI not working in #wikimedia-operations
- 11:51: Seeing how everyone's work is blocked, Giuseppe opens https://phabricator.wikimedia.org/T222605₺ and sets its severity to Unbreak now! Further attempts to reach to anyone in #wikimedia-releng by several people fail.
- 12:11: first automated alert about the issue: PROBLEM Work requests waiting in Zuul Gearman server on contint1001 is CRITICAL: CRITICAL: 57.14% of data above the critical threshold [140.0] https://grafana.wikimedia.org/dashboard/db/zuul-gearman?panelId=10&fullscreen&orgId=1&
- 12:56: mark attempts to reach Antoine on IRC (but he misses it due to other notifications)
- 14:00 roughly: Antoine notices the problem.
- "14:04" reverted zuul patch https://phabricator.wikimedia.org/T222605 ₽ that broke the gate and submit queue
- 14:08: operations/puppet patches begin to be processed again

## Incident 2

- 14:18 Long chain of patches is send to https://gerrit.wikimedia.org/r/#/c/mediawiki/tools/phan/SecurityCheckPlugin/&
- 14:18: Zuul queue size explodes. They are merger:merge jobs being a cartesian products of all changes send to the above repo or 3000
- 14:30: despite queue size of 3000+, only 2 jobs running at any time between approx 14:30 and 15:00
- 14:57: number of running jobs returns to 20+
- "16:00" CI still unresponsive slow due to job queue https://grafana.wikimedia.org/d/000000322/zuul-gearman? from=1557144860227&to=1557155660227&orgld=1
- 15:30 Zuul gearman server has rougly 2000 merger:merge jobs enqueued
- 16:08 Antoine makes /srv/zuul/git/mediawiki/tools/phan/SecurityCheckPhanPlugin unreadable on contint1001 and contint2001 to have zuul-merger fail quickly when attempting to do the merger:merge function

#### 16:12 Queue drained

View of the Gearman queue from 14:00 UTC to 16:30 UTC. The peak is reached at 14:30 UTC and is slowly drained by the two zuul-merger processes running on contint1001 and contint2001. Around 16:10 UTC, the quick drain is due to purposely causing those jobs to fail fast.



#### Conclusions

#### What went well?

• In both cases the root cause has been fairly easily to pin point. Respectively a config change and a huge amount of merger:merge function enqueued.

# What went poorly?

- it was difficult to get in touch with those who could fix the issue: IRC pings and an UBN ticket went unseen. (perhaps a phone call would have been better?)
- there is no shared knowledge about the CI stack beside a few people. During European time, its only covered by Antoine.

## Where did we get lucky?

• Root causes were "easy"

# Links to relevant documentation

• The documentation is at https://www.mediawiki.org/wiki/Continuous\_integration/Zuul 🗗 but does not convey any helpful hint regarding this incidents.

# Actionables

- review contact list for release engineering systems (Zuul/Jenkins/Gerrit/Phabricator) with identified persons, chain of escalation etc. List them on the documentation page.
  - . TODO: Create a task for this!
  - A specific set of SLOs around what is escalation-worthy and how to escalate to releng might also be helpful.
- phab:T158054 create and end-to-end job that measures the average time on queue for CI or create an alert that if average time is > X.
- phab:T222645 Get a couple more zuul-merger process to help drain merge requests T222645
- phab:T140297 Review upstream patch https://review.opendev.org/#/c/643703/₺
- ✓ Done Document the workaround to drain the merger queue quickly (make the git dir unwritable on the zuul-mergers)
  - https://www.mediawiki.org/wiki/Continuous\_integration/Zuul#Very\_high\_queue\_of\_merger:merge\_functions
- V Done phab:T105474 find a proper solution to reject CR+2 patches from test pipelines and have it properly tested
  - Probably due to lack of https://review.opendev.org/#/c/589762/

Category: Incident documentation

This page was last edited on 13 May 2019, at 10:47.

Text is available under the Creative Commons Attribution-ShareAlike License; additional terms may apply. SeeTerms of Use for details.

Disclaimers Code of Conduct Developers Statistics Cookie statement Mobile view



