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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/20180625-wdqs

< Incident documentation

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Summary

Wikidata Query Service public SPARQL endpoint has been overloaded and started to timeout to LVS probes. Updates lagged for some time.

Timeline

2018-06-24

- 15:27 icinga-wm: PROBLEM LVS HTTP IPv4 on wdqs.svc.eqiad.wmnet is CRITICAL: CRITICAL Socket timeout after 10 seconds
- 15:28 icinga-wm: RECOVERY LVS HTTP IPv4 on wdqs.svc.eqiad.wmnet is OK: HTTP OK: HTTP/1.1 200 OK 434 bytes in 0.018 second response time
- 15:33 godog: restart-wdqs on wdqs1004
- 15:35 godog: systemctl restart wdqs-blazegraph on wdqs1004
- 15:40 godog: restart wdqs-blazegraph on wdqs1005
- 16:09 godog: restart wdqs-updater on wdqs1005
- 16:31 icinga-wm: PROBLEM LVS HTTP IPv4 on wdqs.svc.eqiad.wmnet is CRITICAL: CRITICAL Socket timeout * after 10 seconds
- 16:32 icinga-wm: RECOVERY LVS HTTP IPv4 on wdqs.svc.eqiad.wmnet is OK: HTTP OK: HTTP/1.1 200
 OK 434 * bytes in 0.056 second response time
- 19:41 gehel: restart blazegraph on wdqs1004
- 21:51 gehel: restarting wdqs1005 after taking a few thread dumps T198042
- 22:26 gehel: restarting wdqs1004 T198042

2018-06-25

- 07:46 gehel: depooling wdqs1005 to allow it to catch up on updates T198042
- 08:11 gehel: rolling restart of wdqs to enable async logging T198051
- 12:00 gehel: repooling wdqs1005 it has catched up on updates T198042

Conclusions

Main tracking task: Task T198042.

Our public WDQS endpoint is fragile (nothing new here). Investigating thread dumps, it looked like a lot of threads were stuck in logging. Blazegraph uses an unbounded executor service, having threads stuck in logging makes the situation worse. Logging asynchronously (Task T198051) and dropping log messages when under too much load would help, reducing the amount of logs would help as well. There is a deeper issue of expensive queries, but that one is hard to address directly.

During investigation we also realized that our banning mechanism was throwing HTTP 500 errors instead of HTTP 403 (Task T198055) due to a bug in throttling logging, which may have contributed to logging volume increase.

Links to relevant documentation

A "runbook" page has been created for WDQS and explains the actions taken during this incident.

Actionables

- log asynchronously (phab:T198051)
- banned users should be notified with HTTP 403, not with HTTP 500 (phab:T198055)
- If the server is severely backed up, it is hard for it to catch up and serve traffic at the same time. We need to look into the issue and see if we need to adjust cluster capability or find some other solution.
- WDQS logs are overly verbose, which both makes them hard to read and contributes to clogging the log pipeline. We should adjust them to be less verbose. (phab:T197645, phab:T198046)

Category: Incident documentation

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