Improving Website speed with Percona Server and Docker containers

In this real case scenario presentation we're going to talk about how we improved our Websites speed with Percona Server and Docker containers.

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PERCONA

Percona Blog initial state

Dedicated Webserver with 4 CPU's and 4Gb RAM
CPU usage > 75%
200K hits/month
Percona Server 5.6

Diagnosing performance

Using PMM observed high concurrency (threads_running)

Speeding things up

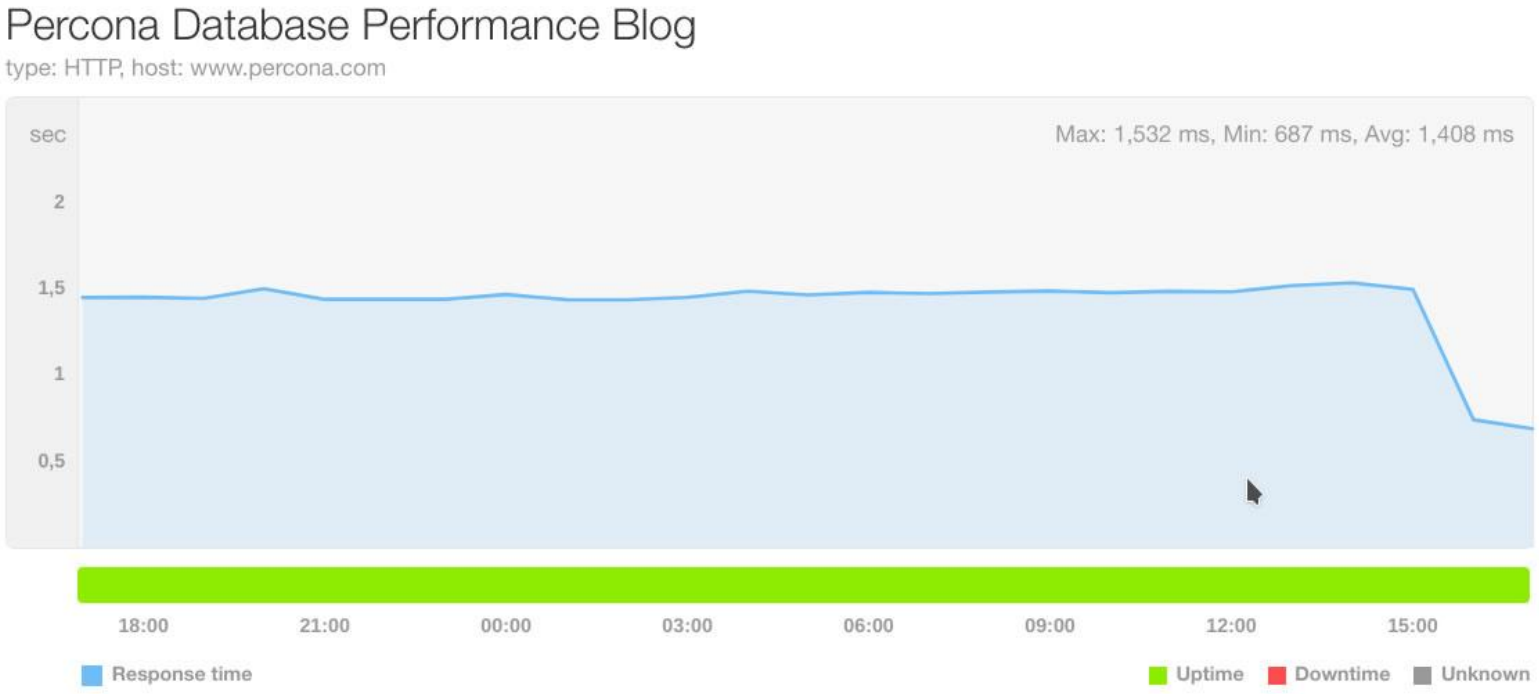
- Percona Server 5.6 -> 5.7 (better concurrency management)

- Docker container (better manageability)

Percona Blog final state

Webserver running in Docker on the same hardware
CPU usage 40-50% (threads spent less time waiting for the DB)
220K hits/month
Percona Server 5.7

Performance monitored by Pingdom



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The aftermath

SEO: improving page speed, increased a 5% the organic search inbound traffic in the first quarter

Contingency: 2 blog Docker instances running in case of failover

Deployment: we can easily deploy as many Blog Docker instances as we want

Acknowledgments

This was a combined effort between IT, DB and Development teams

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