

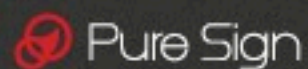
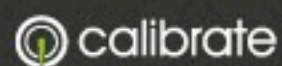


drupalcamp
gent

25 en 26 mei 2012

Performance optimizations for large & small sites

Bernard Grymonpon - bernard@openminds.be





We host (drupal) sites

Servers

CPU / RAM / Storage

Storage

HDD, SSD, SAN, ...

Latency and cost

Software

Webserver
Database server
Helpers

Live demo

Next up: fail

Setup

Vagrant (virtualbox) - 256 MB RAM

Debian Squeeze

Drupal 7 - 5000 nodes & terms
(Opscode Chef)

LAMP

Apache

Database

Opcode caching

Script language
Memory

Drupal cache

Default
Memcache
Boost

Varnish

Larger setups
Caches everything

Results

Default: 5 / sec

Xcache: 15 / sec (300%)

Drupal cache: 30 / sec (600%)

Drupal- / Memcache + Xcache: 100 / sec (2000%)

Boost: 430 / sec (8600%)

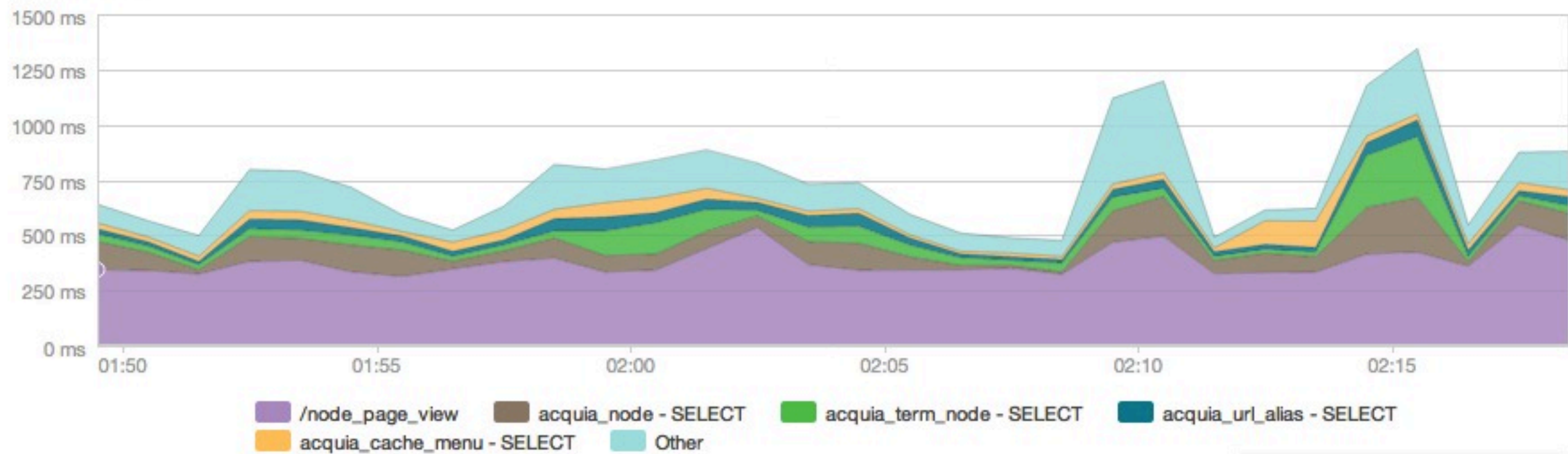
Varnish: 1400 / sec (28000%)

Find slow pages

Profiling
New Relic

Web transaction breakdown

by component



Add to note



Embed

Summary breakdown



Category

Segment

% Time

Avg calls
(per txn)Avg
time (ms)

WebTransaction

/node_page_view

52.5

1.0

370

Database

acquia_node - SELECT

11.0

21.5

78

Category	Segment	% Time	Avg calls (per txn)	Avg time (ms)
WebTransaction	/node_page_view	52.5	1.0	370
Database	acqua_node - SELECT	11.0	21.5	78
Database	acqua_term_node - SELECT	7.8	9.0	55
Database	acqua_url_alias - SELECT	4.8	115	33.9
Database	acqua_cache_menu - SELECT	4.6	7.1	32.4
Database	acqua_boost_cache_relationships - UPDATE	1.6	0.09	11.3
Database	acqua_locales_source - SELECT	1.5	17.6	10.6
Database	acqua_menu_links - SELECT	1.5	22.8	10.6
Database	acqua_feedapi_node_item - SELECT	1.3	8.0	9.2
Database	acqua_vocabulary - SELECT	1.1	8.1	7.8
Database	acqua_cache - SELECT	1.1	6.8	7.8
Database	acqua_menu_router - SELECT	1.0	11.3	7.1
Database	acqua_term_data - SELECT	0.9	5.3	6.1
Database	acqua_cache_menu - INSERT	0.8	1.7	5.3
Database	acqua_cache_content - SELECT	0.6	8.2	4.1
Database	acqua_system - SELECT	0.6	6.4	4.2
Database	acqua_cache_block - SELECT	0.5	2.0	3.2
Database	acqua_cache_block - INSERT	0.5	0.5	3.5
Database	acqua_files - SELECT	0.5	7.7	3.8

Fail

Anonymous users

Statistics

Access

Watchdog

Expires

Cloud

Scaling hardware works only so far...

Large sites

Performance optimizations are part of the
development

Profiling during development

Take care of your custom modules!

Small sites

Enable caching
Use boost

Soon...

Opcode caching
PHP-FPM
Examine caching
Detect upgrades
Varnish



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Feedback & follow-up:
<http://drupalcampgent.be/feedback>

