



WHERE GREAT DIGITAL EXPERIENCES BEGIN

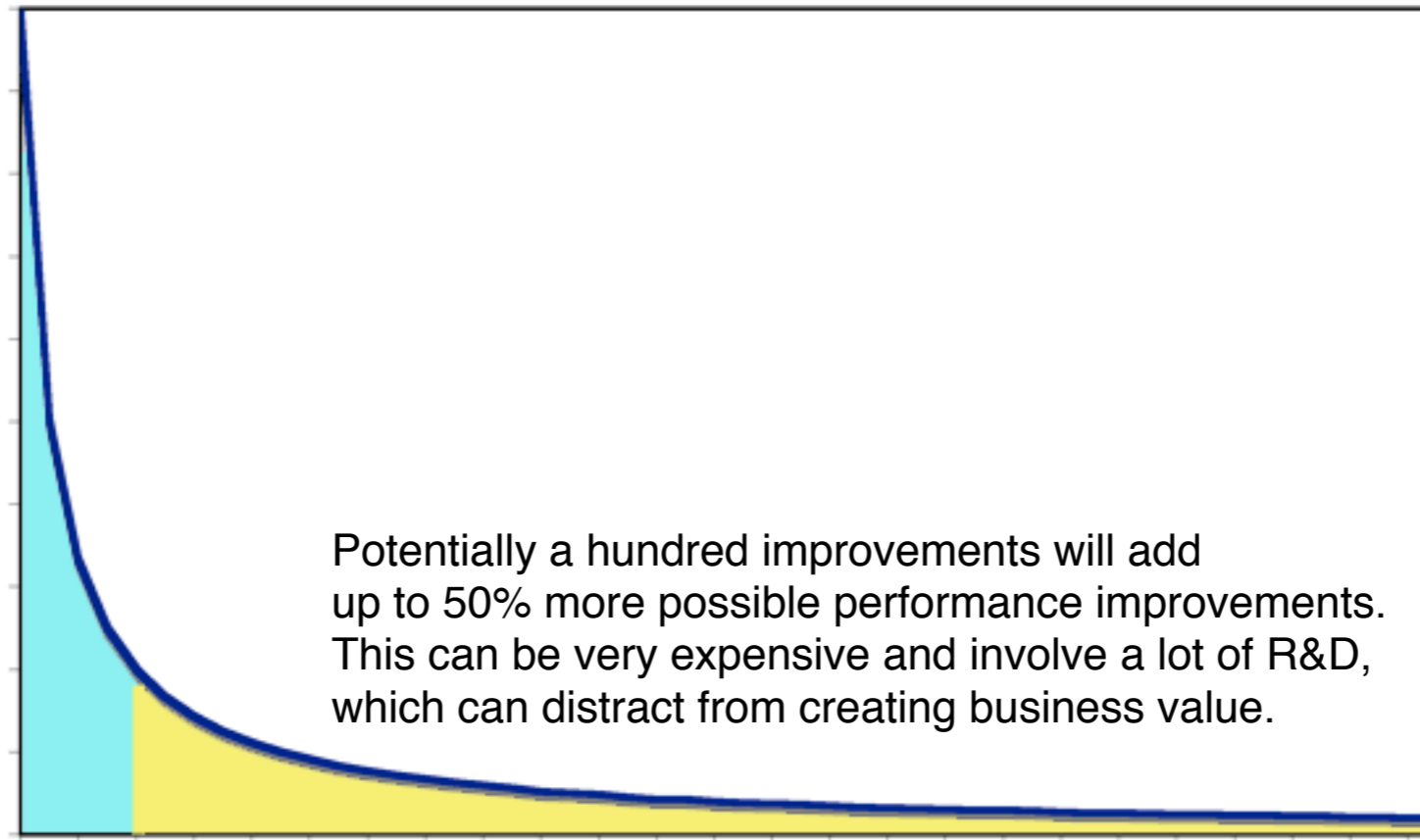
100 Drupal performance and scalability best practices

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Long tail of performance tuning

20% of the performance tuning
will give 50% of the improvements



Advanced performance can not be fixed immediately

Performance and Scalability Options

Infrastructure
set-up and
operations

Infrastructure
Monitoring and
tuning

Developer
tuning: Front and
back-end

Additional
Hardware and
Systems
Customization

Different audiences have different skill sets

Drupal scalable infrastructure

Content Delivery Network

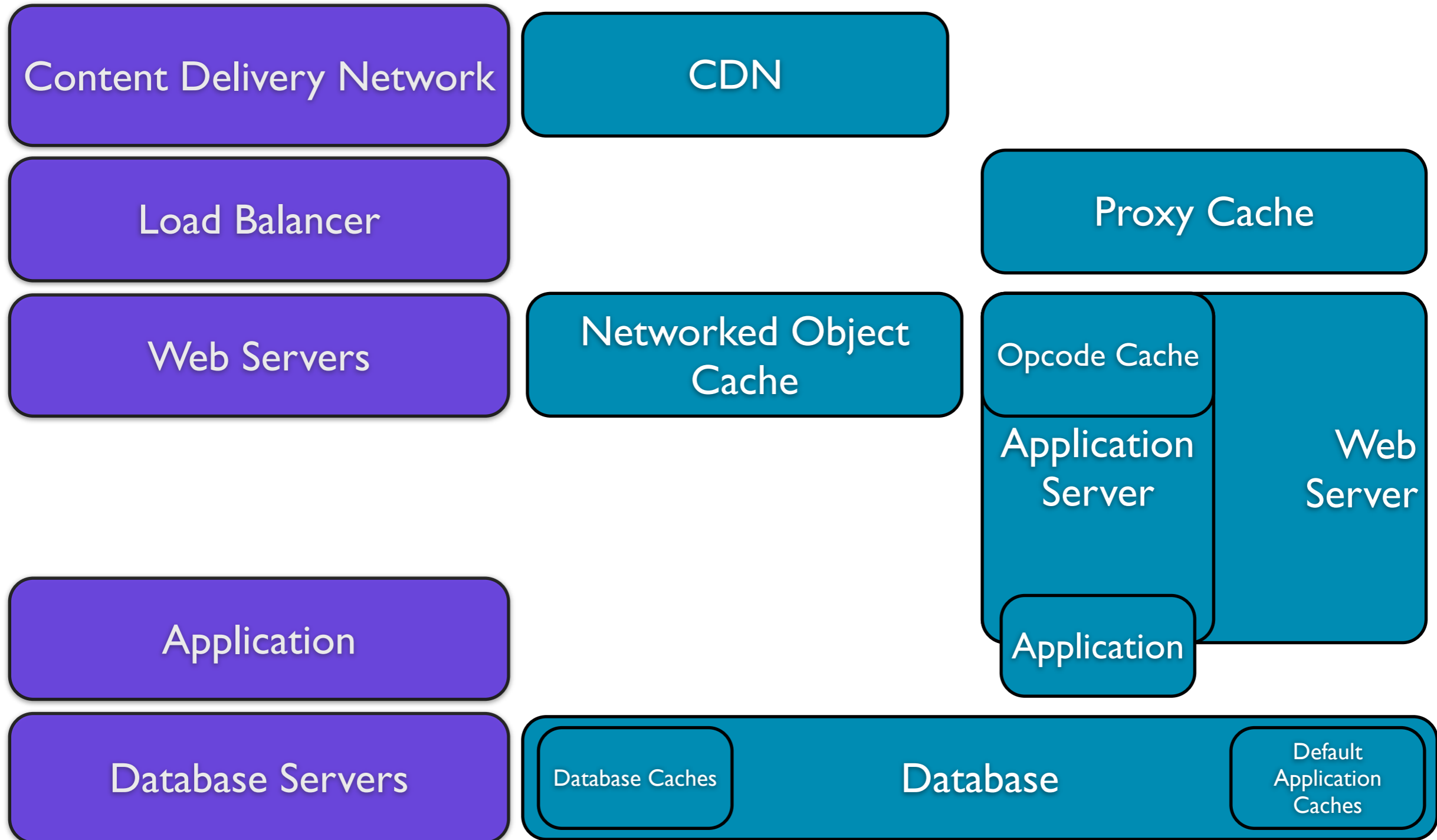
Load Balancer

Web Servers

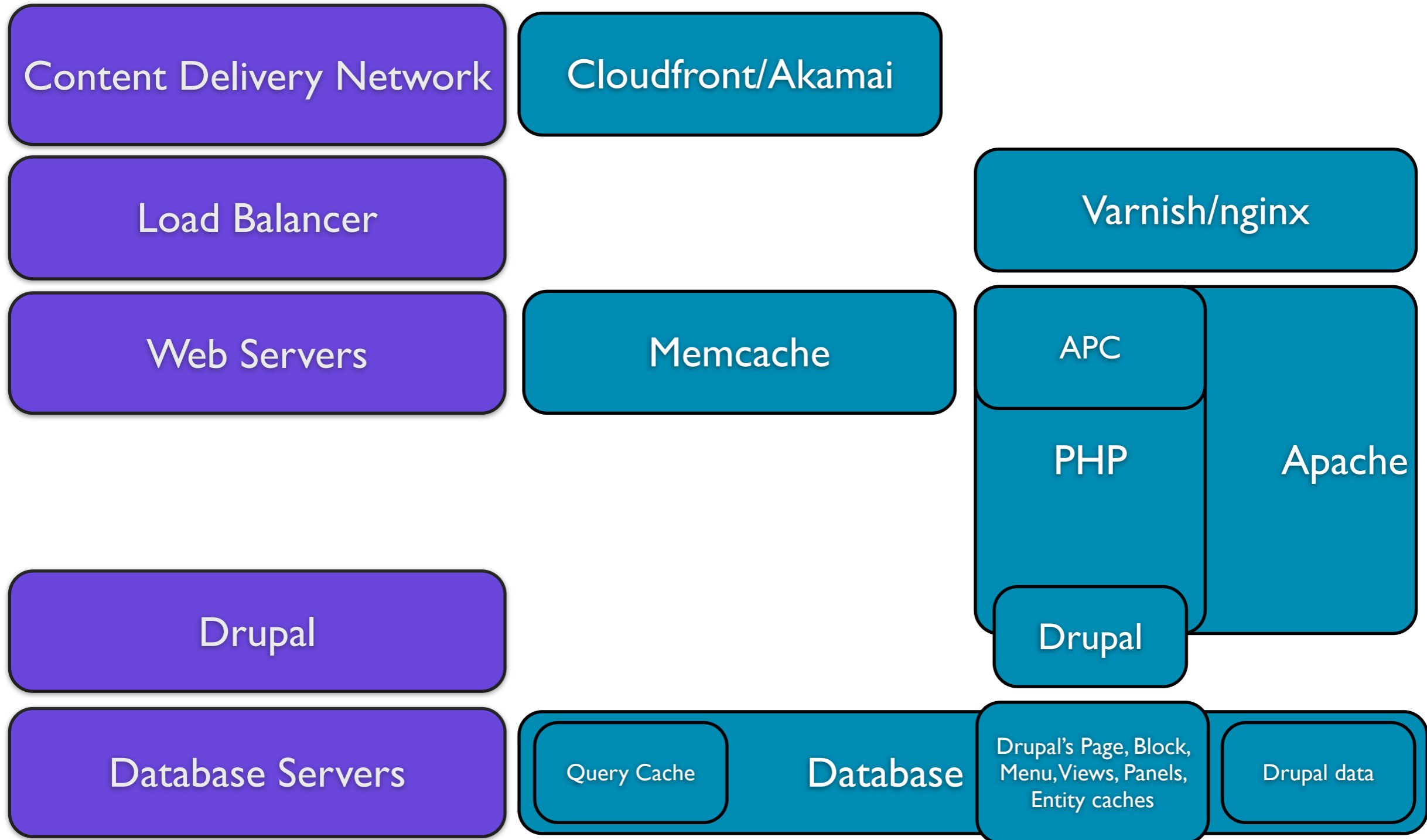
Application

Database Servers

Systems by Service



Systems by Service



Profiling tools for systems

Chrome developer tools,
Yottaa, YSlow,
Google PageSpeed

Akamai

Varnishhist, Varnishstat,
varnishlog

Varnish/nginx

XHProf for PHP
New Relic/Tracelytics for functions +
DB + web trans + memcache
Memslap & Mcstat & eviction stats
Perf_stats mod for Memache and
APC
PKTools - very large
Devel module
Coder module
Cache audit

Memcache

APC

PHP

Apache

Drupal

Percona Tool Kit (Maatkit)
pk_query_digest
NewRelic,
Devel Module,
Innotop
Show process list
Explain slow queries micro sec
cache stampedes for Query caches

Query Cache

Database

Drupal's Page, Block,
Menu, Views, Panels,
Entity caches

Drupal layers for tuning and optimization

Presentation layer files

Caches

Application tuning
features

Drupal layers for tuning and optimization with recommendations

Varnish and/or CDN module
Yottaa/YSlow
Purge w/ Expire module for invalidation
CSS & Javascript aggregation w/ module
Gzip non-mobile pages (header specific)
Advagg module

Presentation layer files

Drush core check (Hacked!)
Use non-db logging backend (syslog)
Disable core statistics, use ga_stats
Disable theme rebuild
Fast 404 module
Use Acquia cloud cron-wrapper.sh
Use Solr for search
Views_lite_pager
Disable unused modules in production:
Devel, Coder, Simpletest, Views UI
Cache busting modules/code

Caches

Block cache (D7 has key)
View_content_cache
Optimize views API
Panels_hash_cache
Authcache(or Varnish)
Entity cache (?)
Cache_warmer for large data sets
Cache feeds
ESI module

Application tuning features

Resources

<http://msonnabaum.github.com/xhprof-presentation>

<http://www.acquia.com/files/Acquia-Hosting-Checklist.pdf>