netcentric ENTERPRISE WEB EXCELLENCE

Enhancing Adobe Experience Manager (CQ5) with Varnish

Dan Beldiman, Senior System Engineer 28. November 2013

Authorized Advanced Integration Partner

About netcentric

Founded 2012 focused on

Web Experience Projects

80 Employees in

München, Zürich, London und Barcelona

Focus on

Adobe CQ5

- 1 Adobe Experience Manager (AEM)
- 2 Caching with AEM
- 3 Varnish with AEM
- 4 Q&A

ADOBE EXPERIENCE MANAGER

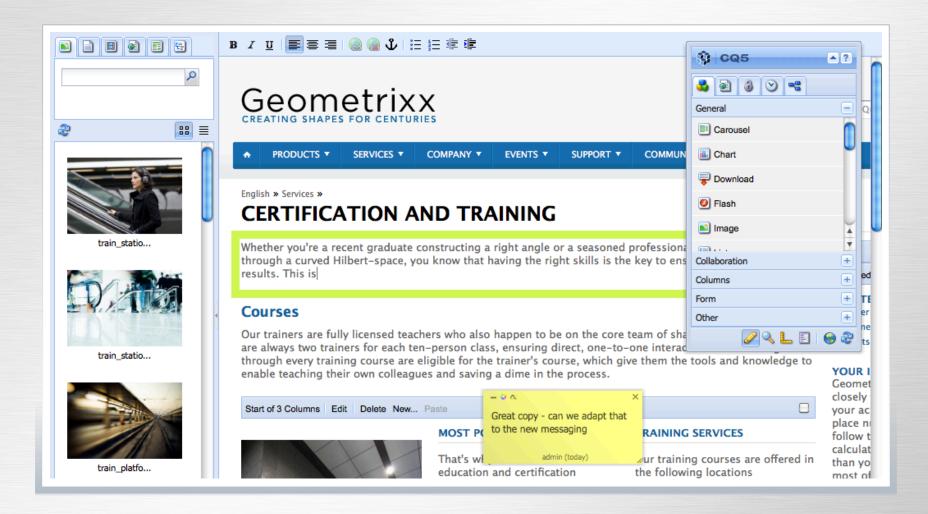
What is Adobe Experience Manager (AEM)?

An easy-to-use unified web content management solution

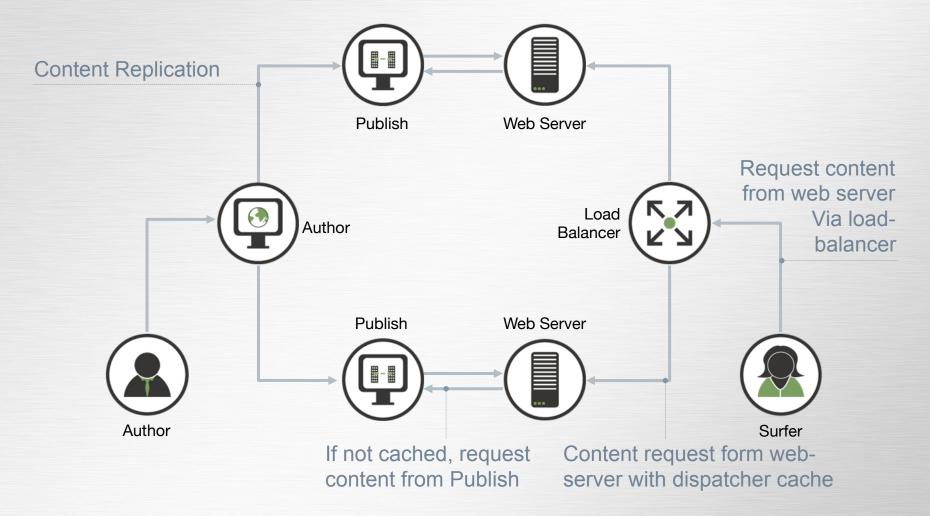
Create,
and **deliver**personalized online
experiences

Formerly known as "CQ5"

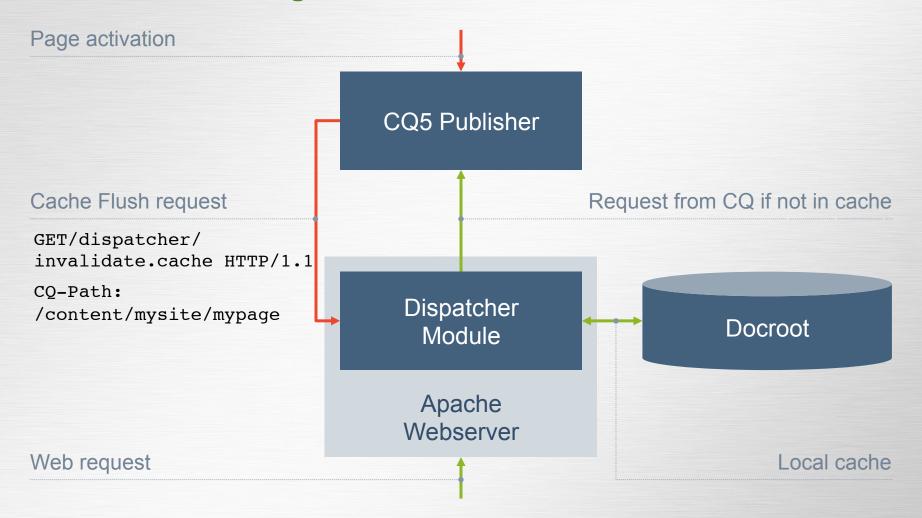
Easy to use, great look and feel

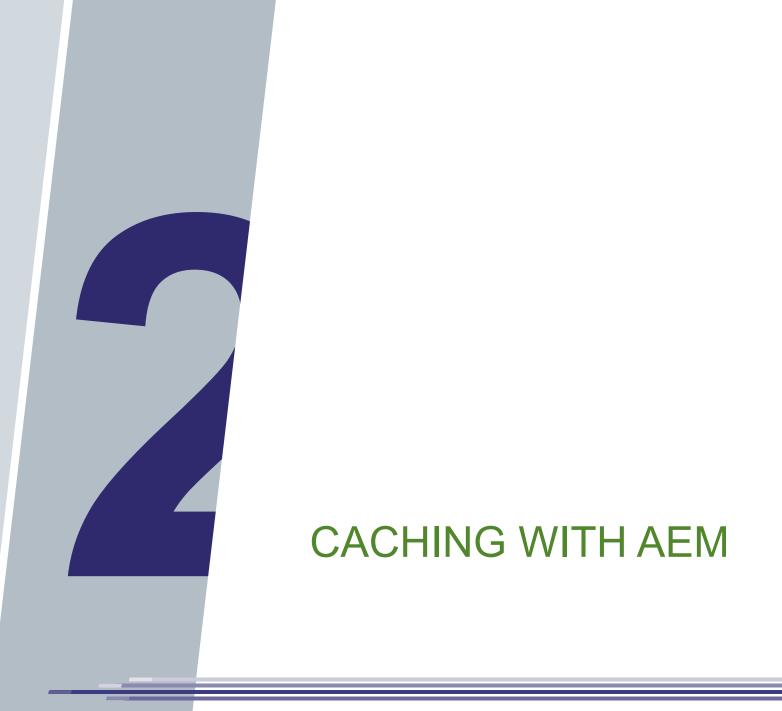


AEM technical setup: The big picture



AEM technical setup:How cache flushing works





AEM Caching module: Dispatcher

A Web server module

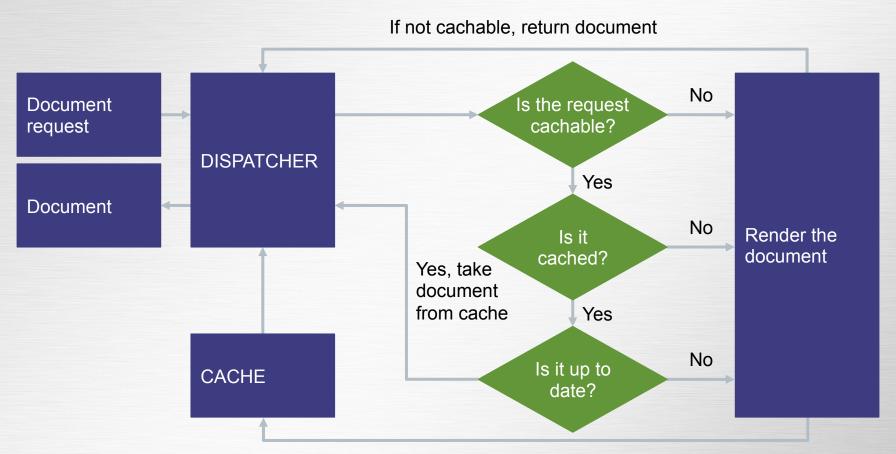
for Apache httpd, Microsoft IIS and others

Stores cachable objects in the docroot

Basic flushing & invalidation support

Support for multiple virtual hosts

How the Dispatcher returns documents



If cachable, put document into cache

Source: https://dev.day.com/docs/en/cq/current/deploying/dispatcher.html



Why change the Dispatcher?



No redirects

As the request handling is done by the underlying web server, **concurrency** is a big issue

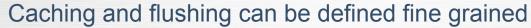
Multiple requests to the same complex pages

Rules for high-traffic or complex pages cannot easily be configured

Workarounds using RewriteRules...



Why Varnish?



Logic of content references can be built into flush rules

Is fast and reliable

Used in Intranet where CDN is not an option for web acceleration

Caching of non-html responses is possible

Caching of redirects

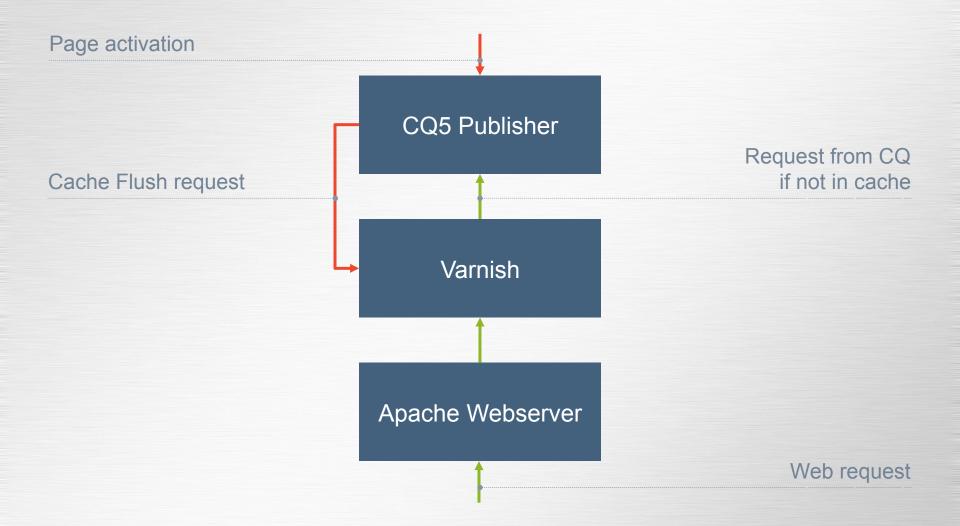
Because Varnish is awesome ©





VARNISH WITH AEM

CQ5 Technical setup: publishing details using varnish



What does it take for a basic integration?

Literally one condition with a ban statement ...

```
if (req.url == "/dispatcher/invalidate.cache"){
    if(req.http.CQ-Handle){
        ban("obj.http.x-url ~ ^"+req.http.CQ-Handle+"[^/]*$");
        std.log("Banning: "+"obj.http.x-url ~ ^"+req.http.CQ-Handle+"[^/]*$");
    }
}
```

What else can we achieve?

Improve flushing/ invalidation through specific rules Change flush behaviour dynamically

Control cache through the admin interface





Contact



Dan Beldiman

dan.beldiman@netcentric.biz

Tel: +49 170 5844847

Netcentric Deutschland GmbH



Landsberger Strasse 110 Central Tower 80339 Munich

Netcentric AG

Poststrasse 5 8805 Pfäffikon Nordstrasse 9 8006 Zurich



Netcentric Iberia S.L.





Netcentric UK Limited

Holland House Gherkin Piazza, 1 – 4 Bury Street London EC3A 5AW

