SUMMIT

THE DIGITAL MARKETING CONFERENCE

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AEM Coding errors

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SUMMIT
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Retoka

Intro Feike Visser

- Based out of the Amsterdam office (The Netherlands)
- Multi-solution architect
- Part of the consulting org
- Joined Adobe in 2007
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Agenda

1 | Welcome and Overview

2 | Setting up development environment

3 | Changing versions (Java + AEM)

4 | Changing code

5 | while (! session.ended) { goto step_4 }

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Setting up development environment

1

Build the project from the command line

2

Import into Eclipse environment

3

Validate application in AEM

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Before / After

Before

mvn clean install –PautoInstallPackageUAT

mvn clean install –PautoInstallPackagePROD

After

mvn clean install –PautoInstallPackage –Daem.host=xxx –Daem.port=4510

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Changing versions

1

Java-version set to Java 8

2

AEM maven depedency to 6.1

3

Validate deprecated API usage

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Before / After (changing Java-version)

Before

```
<artifactId>maven-compiler-plugin</artifactId>
    <configuration>

    <source>1.6</source>

    <target>1.6</target>
```

After

```
<source>1.8</source>

<target>1.8</target>
```

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Before / After (changing AEM6.1 maven dependency)

Before

```
<dependency>
<groupId>com.adobe.aem</groupId>
        <artifactId>aem-api</artifactId>
</dependency>
```

After

```
<dependency>
        <groupId>com.adobe.aem</groupId>
        <artifactId>uber-jar</artifactId>
        <classifier>obfuscated-apis</classifier>
</dependency>
```

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Tips, inspect your AEM environment

In /system/console

Status → System properties (environmental settings)

Status → Sling settings (runmodes)

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Tip, looking for your compiled classes?

Not anymore in /var/classes

In /system/console/bundles,
find bundle-id for "Apache Sling Commons FileSystem ClassLoader"

$AEM_HOME/crx-quickstart/launchpad/bundle<id>/data/classes

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Changing code

1

Working component

2

Change / remove code

3

Validate component

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Use-case:
For all non-hidden subpages, I want to display the first text and image component

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Tip: pages and selectors?

Tip: pages and selectors

This (item.path points to a page):

data-sly-resource="*${ item.path @ selectors='summary'}*"

Gives you always a

To remove this, you need to specify the resourceType, and point to jcr:content

appendPath='jcr:content', resourceType=item.contentResource.resourceType, selectors='summary'

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Tip: Sightly and Sling-models

- Add a non-empty constructor to avoid non-initialized Sling-models
- Use protected void init() to allow unit-testing
- Avoid lots of processing in get-methods

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Use-cases
Servlet to display page-info in json-format, only on author

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Tip: Enabling/disabling component

- Use policy=ConfigurationPolicy.REQUIRE to enable the component via config
- Avoid using intense usage of SlingSettingsService
- Other option is to put a whole bundle in install.author

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Tip: Name your OSGi-components

- Makes it easier to find in /system/console
- Config-options are easier to understand

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Q&A

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