

AEM Developer Tools for Eclipse

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AEM Developer Tools for Eclipse

Mission Statement

Make AEM application development

- easier
- more straight forward
- and aligned with best-practices

Target User

(Java) Developers

- implementing Business Logic
- based on AEM-stack



Under the hood

99% Open Source : 1% to become Open Source too

- 95,74% based on Sling IDE Tooling

<https://sling.apache.org/documentation/development/ide-tooling.html>

Predecessor: Slingclipse by Antonio Sanso

Developed into Sling IDE Tooling by Robert Munteanu & Stefan Egli

- 3,26% AEM specific extensions

<https://github.com/Adobe-Marketing-Cloud/aem-eclipse-developer-tools>

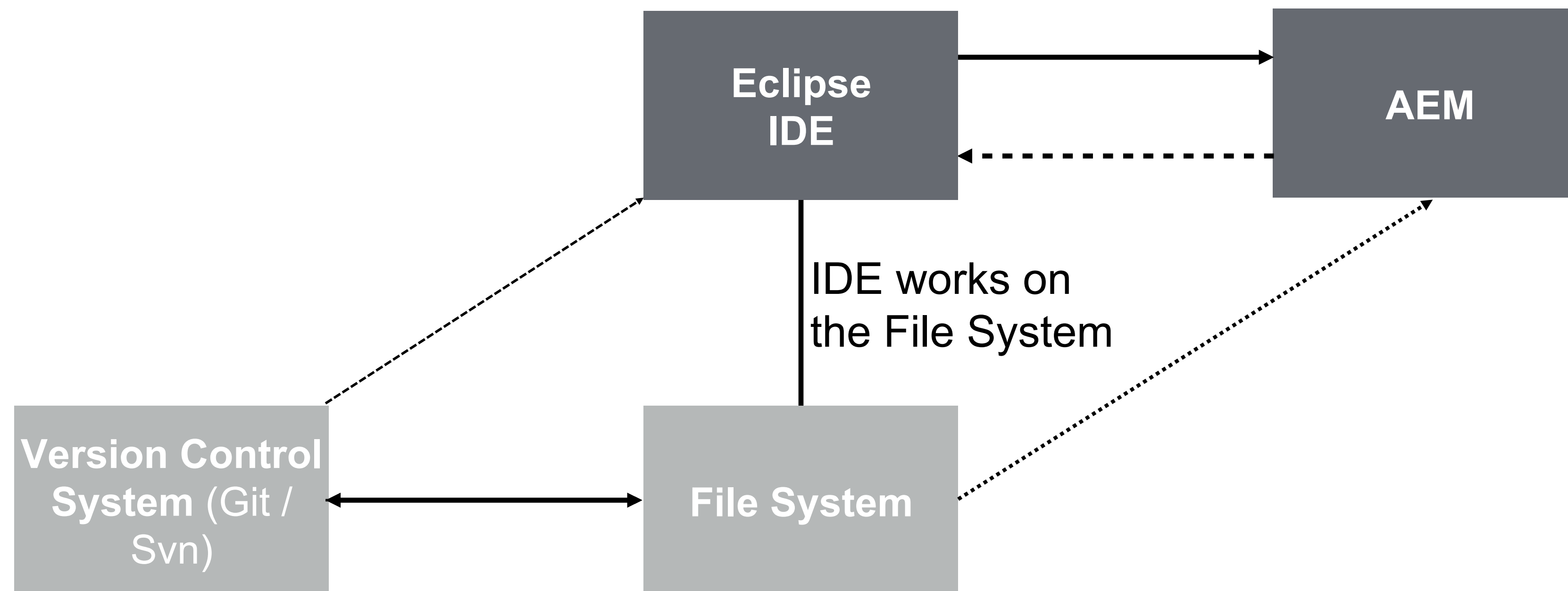
- 1% sample archetype: source to be published

<http://repo.adobe.com/nexus/content/groups/public/com/adobe/granite/archetypes/sample-project-archetype/>



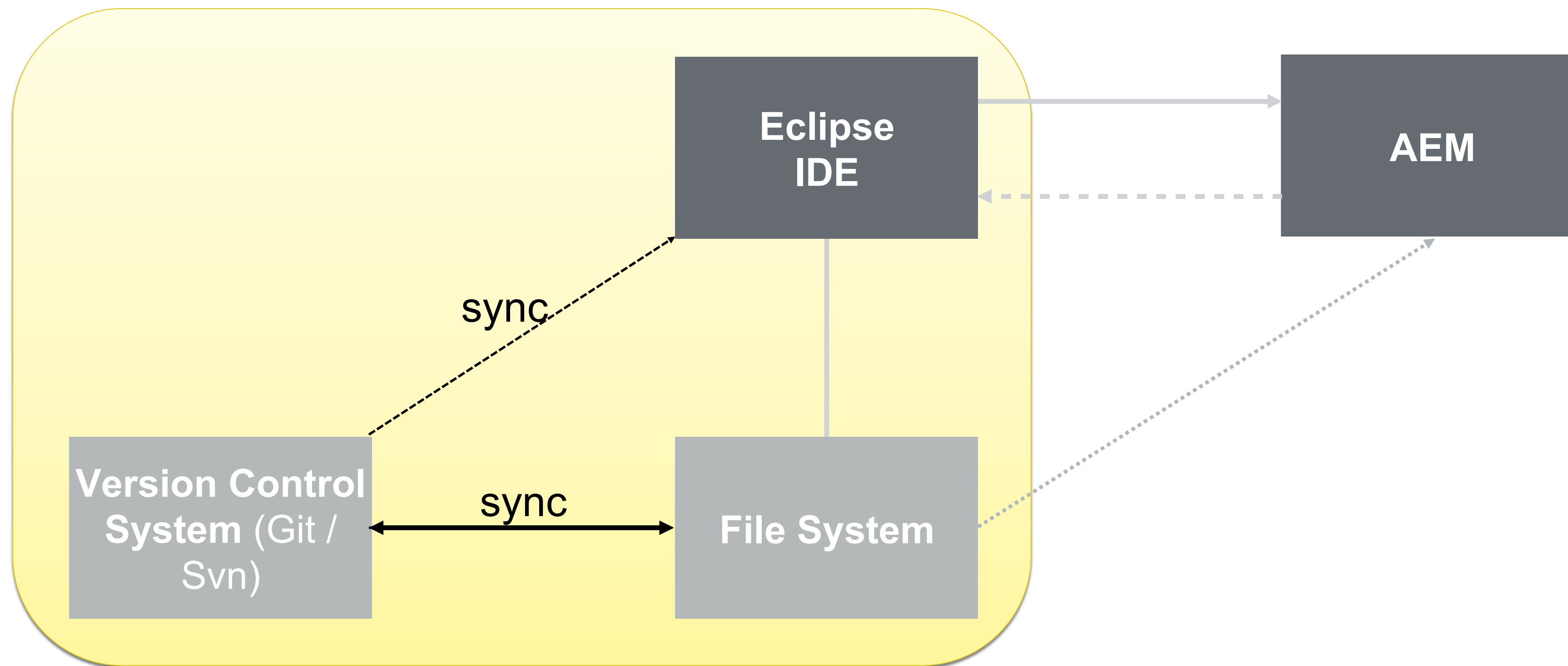
AEM Application Development

Work on file system, team-sync + AEM-sync



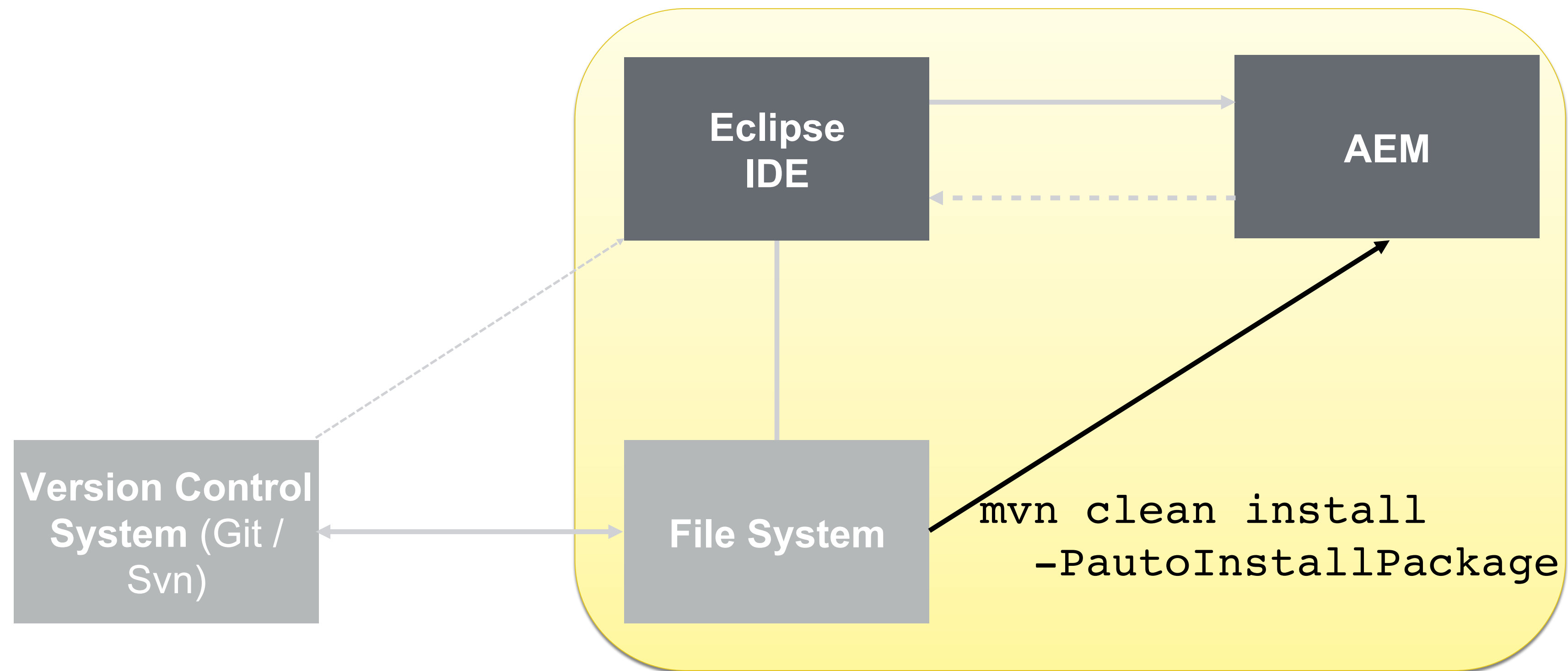
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Team Synchronization



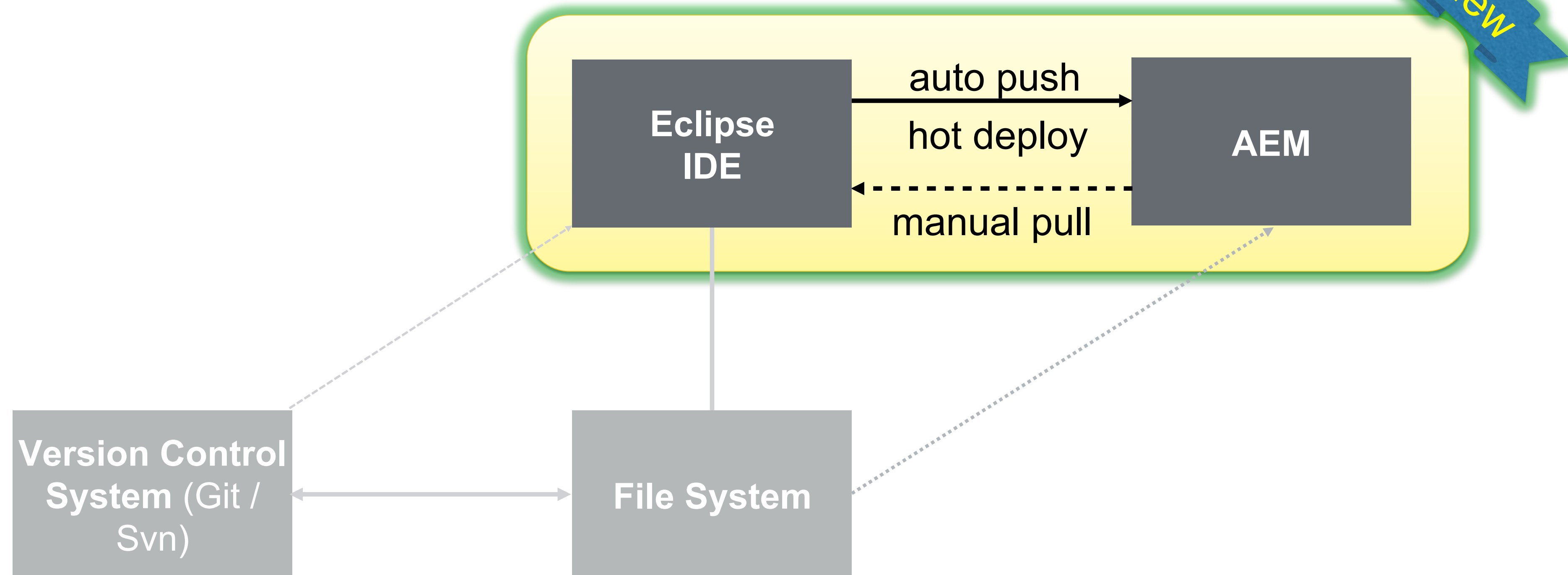
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Maven-based Sling/JCR Synchronization



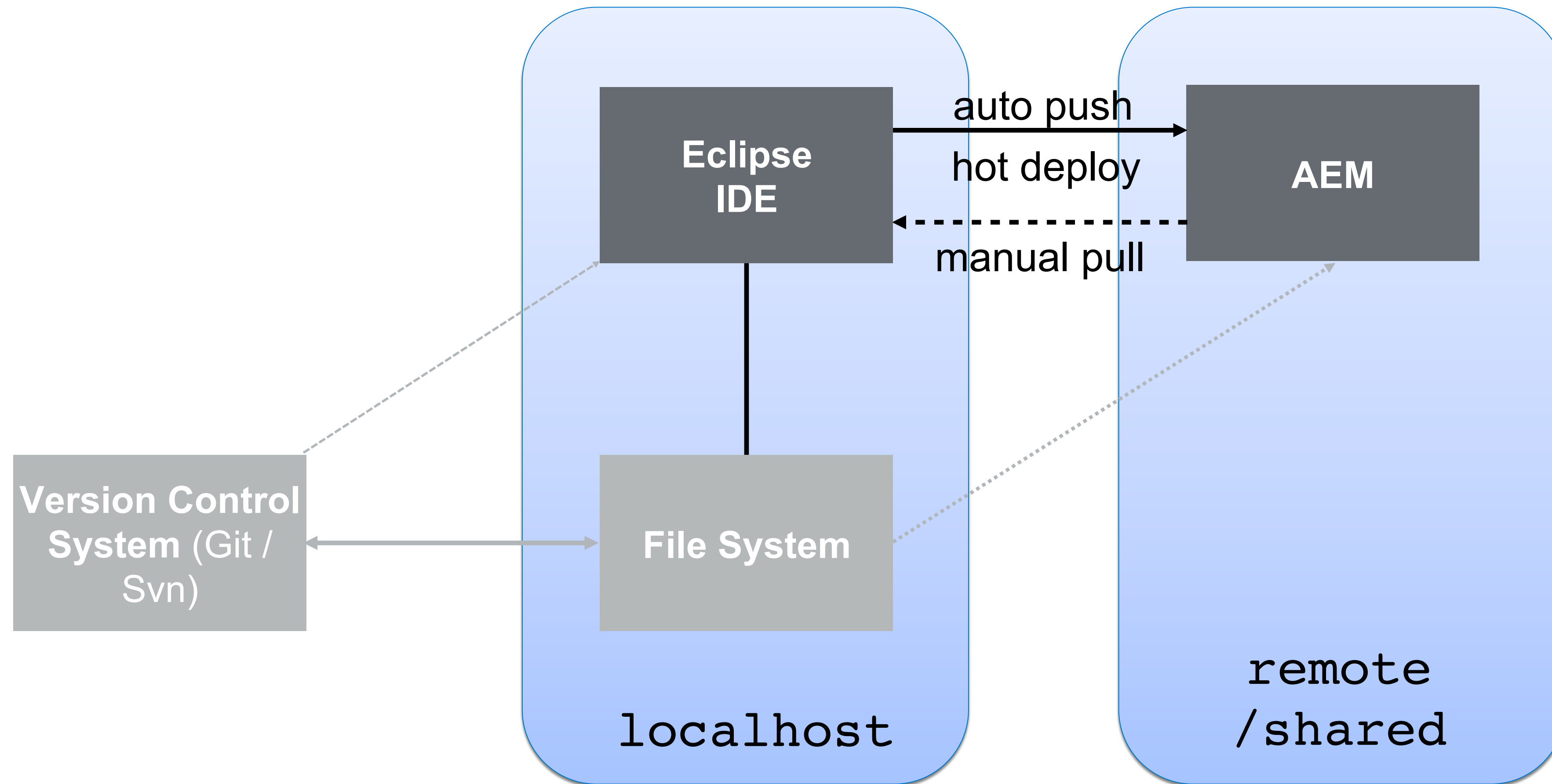
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New: Eclipse-based Sling/JCR Synchronization



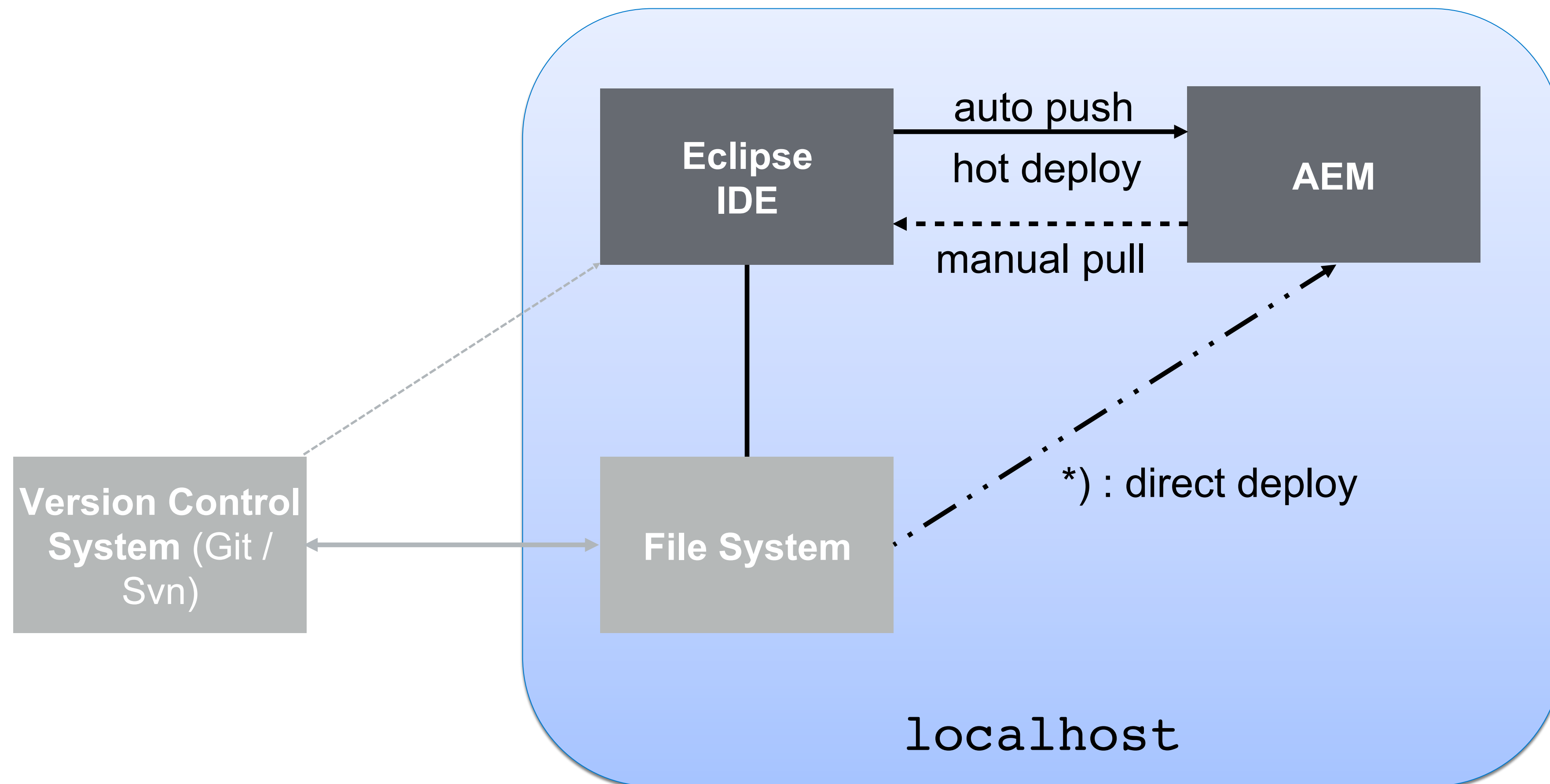
Installation Scenarios

Remote server

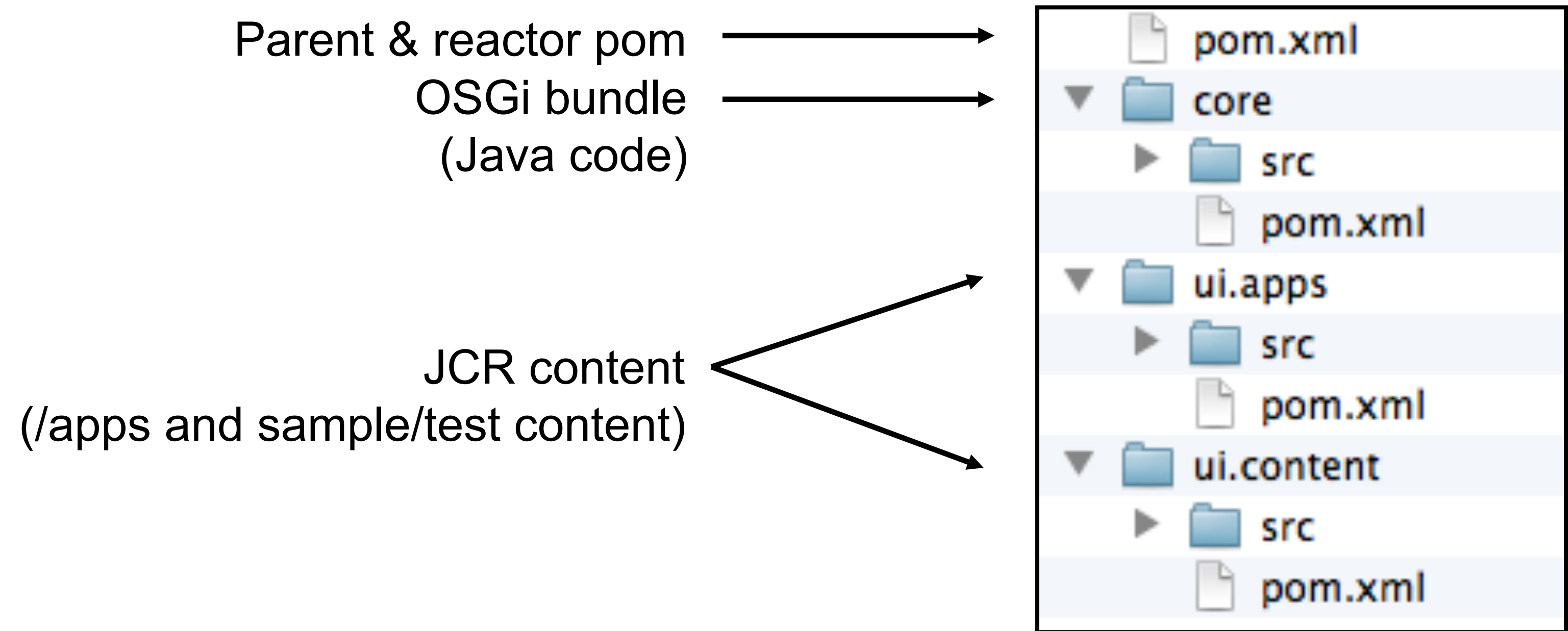


Installation Scenarios

localhost *)



Anatomy of an AEM Project



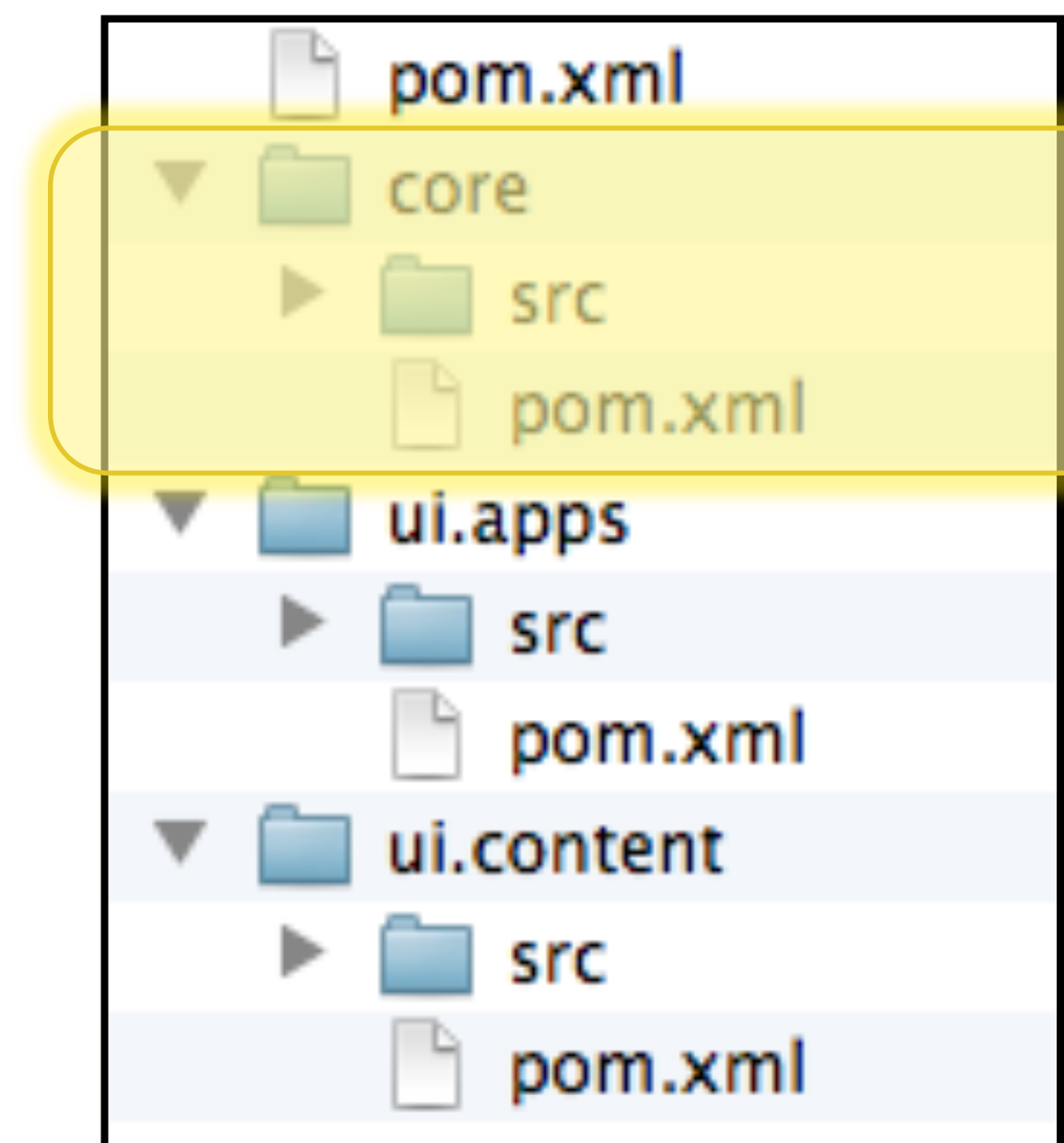
Working with OSGi Bundles

- Install via mvn:

```
mvn clean install -PautoInstallBundle
```

new

- Install while developing in Eclipse:
 - Automatically on save, after a delay
 - Manually
 - Based on new Bundle module Facet
- Hot code replacement when in Debugger



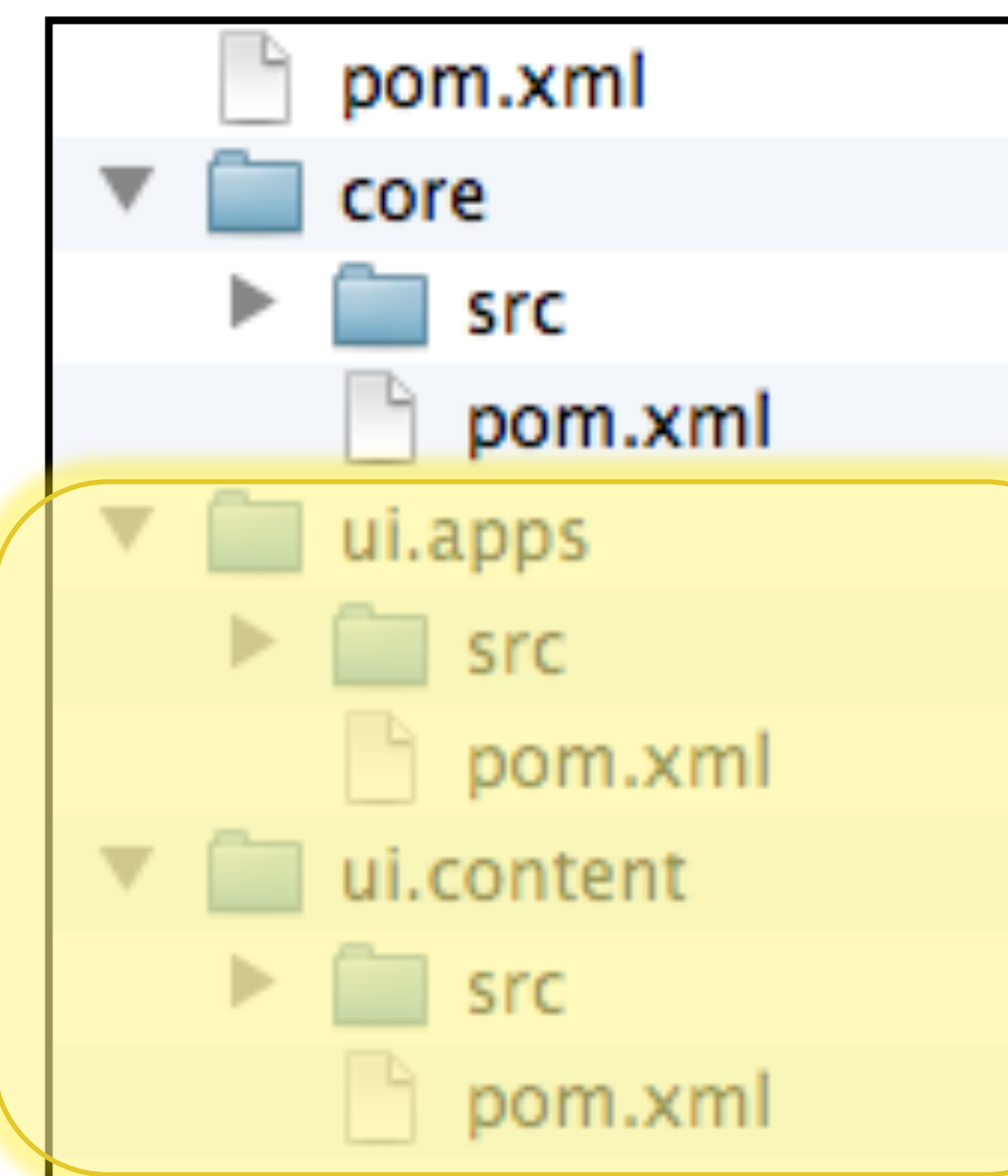
Working with JCR content

- Install via mvn:

```
mvn clean install -PautoInstallPackage
```

new

- Install while developing in Eclipse:
 - Automatically on save, after a delay
 - Manually
 - Based on new Content module Facet
- Import content from server
- Convenient Content-Browser for viewing & editing FileVault (.content.xml) files



Sling/JCR Synchronization

- Integrates into Eclipse' WST framework
- New server/runtime type: AEM
- Modules with facets 'Content' or 'Bundle' module can be added
- 'Publish' (== export) can be customized, eg on save, delay..
- All or individual modules can be (re)published (ie exported)
- Server can be connected to in 'run' or 'debug' mode
- New Console type: 'AEM Console' shows log output



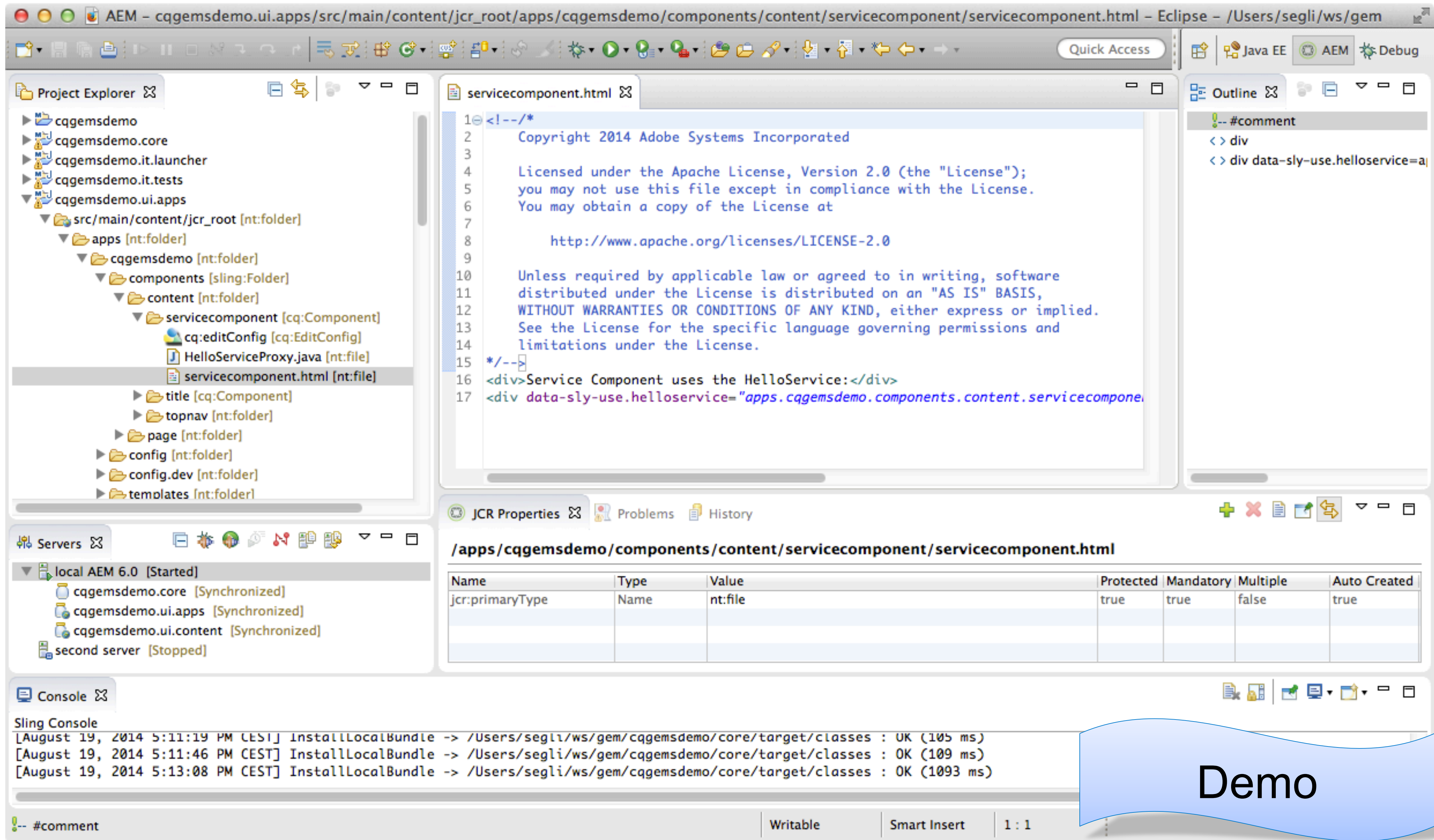
Content Browser

- Added to Project Explorer for 'Content module' type projects
- Works directly on FileVault's `.content.xml` etc files.
- Properties / JCR Properties view

AEM 6.0 sample project

- Best-practice example for a multi-module project structure
- Contains four parts:
 - Parent/reactor pom.xml
 - A core (OSGi) bundle
 - Two content packages – one containing (/)apps, one containing (/)content
 - Plus three levels of testing:
 - Unit-Tests: in the core bundle
 - Integration-tests: a ‘driver’ and the actual test bundle executed on server
 - UI-Testing: tests running in the browser based on Hobbes.js





Outlook

- <User Feedback/>
- Sightly Support
- AEM Components Support
- Tighter integration on OSGi level
- Other IDEs (eg IntelliJ)



Resources

AEM Developer Tools Download Site

<http://eclipse.adobe.com/aem/dev-tools/>

Sling IDE Tooling

<https://sling.apache.org/documentation/development/ide-tooling.html>

Forum for discussions & questions

<http://help-forums.adobe.com/content/adobeforums/en/experience-manager-forum/adobe-experience-manager.html>

Issue reporting & tracking

<https://github.com/Adobe-Marketing-Cloud/aem-eclipse-developer-tools/issues>

Hobbes.js: UI Testing Framework

<http://docs.adobe.com/docs/en/aem/6-0/develop/components/hobbes.html>





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