



Adobe

Best Practices for deploying AEM Maintenance Releases

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Agenda

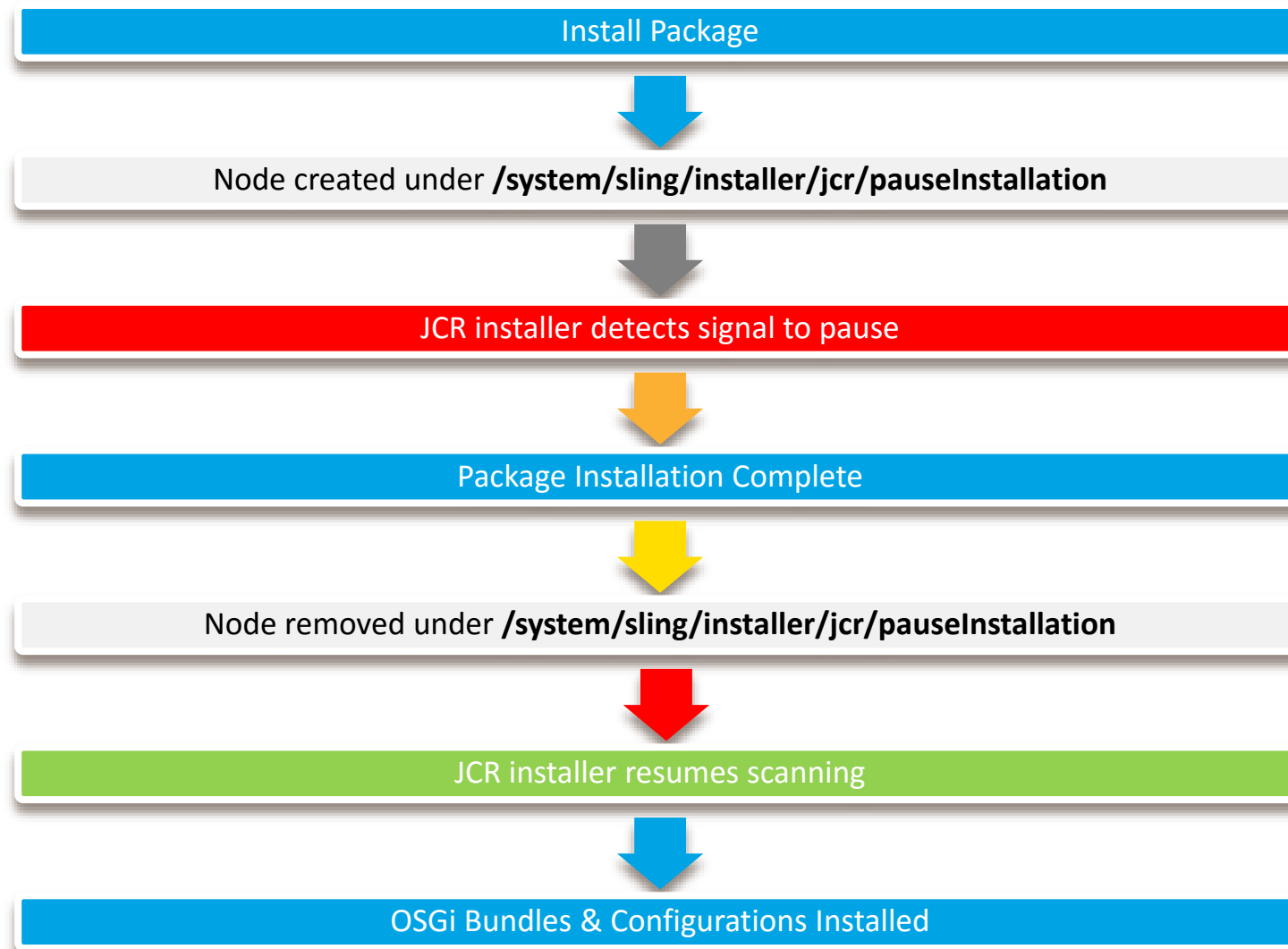
- Maintenance Releases
- Installation
 - Overview
 - Methods
 - Validation
- Challenges in deploying
- Package Manager Enhancements
 - Validate OSGi Package Imports
 - Validate Overlays
- Best Practices



Maintenance Releases

- ~~Hotfix~~ Cumulative Fix Pack
- Service Pack

Installation Overview



Installation Methods

- Package Manager UI ✓
- Package Manager HTTP API (Curl) ✓
- File System (crx-quickstart/install) !
- Bootstrap ✗

Installation Validation

- ✓ OSGi bundles state
- ✓ Sub Packages
- ✓ Error logs
- ✓ **Sling OSGi Installer Mbean** : Active -> false, ActiveResourceCount -> 0
- ✓ Product version (/system/console/productinfo)
- ✓ Package Manager Activity Logs
- ✓ Last but not the least – Do a hands on sanity to ensure AEM is good to use post installation

Challenges in deploying

- OSGi Export Package Changes
- Overlay Conflicts

Package Manager | Enhancements


- Validate option added in Package Manager
 - Upload package and pre-validate it before actual installation
 - Any inconsistencies or conflicts reported can be handled before installation



cq-6.2.0-featurepack-11706-1.18.zip

Version: 1.18

Consolidated FP for RRD for Assets improvements

 **Install** | 55.9 MB

Edit Build Install Download Share

More

Package: cq-6.2.0-featurepack-11706

Download: [cq-6.2.0-featurepack-11706-1.18.zip](#) (55.9 MB)

Group: adobe/cq620/featurepack

Dependencies: adobe/cq620/hotfix:cq-6.2.0-hotfix-12785
adobe/cq620/servicepack:aem-service-pkg:6.2.5
adobe/granite:com.adobe.granite.ui.content:0.8.3
CQ620-B0014
day/cq60/product:cq-dam-content:2.2.402
day/cq60/product:cq-dam-cfm-content:0.8.166
day/cq60/product:cq-projects-content:1.2.150
day/cq60/product:cq-integration-analytics-content:1.0.180
day/cq60/product:cq-ui-touch-optimized-content:2.2.996

Delete

Coverage

Contents

Rewrap

Older Versions

Uninstall

Test Install

Validate

Replicate

Validate Package

adobe/cq620/featurepack:cq-6.2.0-featurepack-11706

Validation Type: ☒ Validate OSGi Package Imports

☒ Validate Overlays

Validate

Cancel

Validate OSGi Package Imports

- Package can be pre-validated to check if installing the package will result in any unsatisfied OSGi package imports and bundles in installed state
- Activity logs list the unsatisfied package imports and the corresponding bundles
- Bundles that will go in installed state are also listed

```
Activity Log
Validate Package: /etc/packages/adobe/cq620/featurepack/cq-6.2.0-featurepack-11706-1.18.zip
Wed May 24 2017 15:50:55 GMT+0530 (India Standard Time)

Validating content package

1 unsatisfied OSGi package import in 1 bundle.
1. Unsatisfied package import com.day.cq.dam.api-[1.18.0,2.0.0) in bundle com.day.cq.dam.cq-dam-indesign-5.9.29.NPR-11706-R004 present at cq-6.2.0-featurepack-11706-1.18.zip/jcr_root/libs/system/

Following 1 bundle will go from 'Active' to 'Installed' state if you install this content package.
1. com.day.cq.dam.cq-dam-indesign-5.9.29.NPR-11706-R004

1 unsatisfied OSGi package import.

Package validated in 0ms.
```

Validate Overlays

- Package can be pre-validated to ensure that no overlay is effected and identify overlays that need to be rebased
- Detects conflicts in JSP, JS & CSS file overlays only
- A warning is logged in activity logs that list the number of overlays that need to rebased with the overlay path and the path of the file in the content package

Activity Log



Validate Package: /etc/packages/adobe/cq620/cumulativefixpack/cq-6.2.0-sp1-cfp-3.8.zip
Wed May 24 2017 15:52:06 GMT+0530 (India Standard Time)

Validating content package

2 overlay rebase warnings. Please rebase your overlay for :

1. Base Version of /apps/cq/gui/components/common/wcm/clientlibs/wcm/js/pagethumbnail.js got changed in cq-6.2.0-sp1-cfp-3.8.zip/jcr_root/etc/packages/day/cq60/product/cq-ui-touch-optimized-content
2. Base Version of /apps/cq/gui/components/common/wcm/pagethumbnail/pagethumbnail.jsp got changed in cq-6.2.0-sp1-cfp-3.8.zip/jcr_root/etc/packages/day/cq60/product/cq-ui-touch-optimized-content

2 overlay rebase warnings.

Package validated in 0ms.



Best Practices

- ✓ Backup
- ✓ Maintenance window
- ✓ Dependencies
- ✓ Restart after upgrade
- ✓ Clustered instances
- ✓ Test Install and Validations
- ✓ Release notes



