CRX Content Package Deployment Plugin

for Jenkins

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About Me

- Technical Consultant with Acquity Group since 2007, which is now part of Accenture Interactive
- CQ5 Developer and Application Architect since 2009
- Since then, I've written five (5!) maven plugins just for building and deploying CRX Content Packages.
- Now a Release Management specialist with our Shared Services DevOps group, focused on supporting client application deployments using Jenkins

What is it good for?

- Uploading/Installing CRX Content Packages on CQ/AEM servers
- Downloading CRX Content Packages from CQ/ AEM servers
- Doing both of those things without knowing the AEM admin password
- And it's completely free to use!

Wait, no admin password, you say?

- The plugin uses the httpsig-java implementation of a draft HTTP Signature Authentication scheme based on SSH Public Key login.
- Simply install two OSGi bundles and an authorized_keys file on the AEM instance's filesystem to enable support on the server.
- https://github.com/adamcin/ net.adamcin.sling.auth.httpsig/wiki/getting-started

But why not Maven?

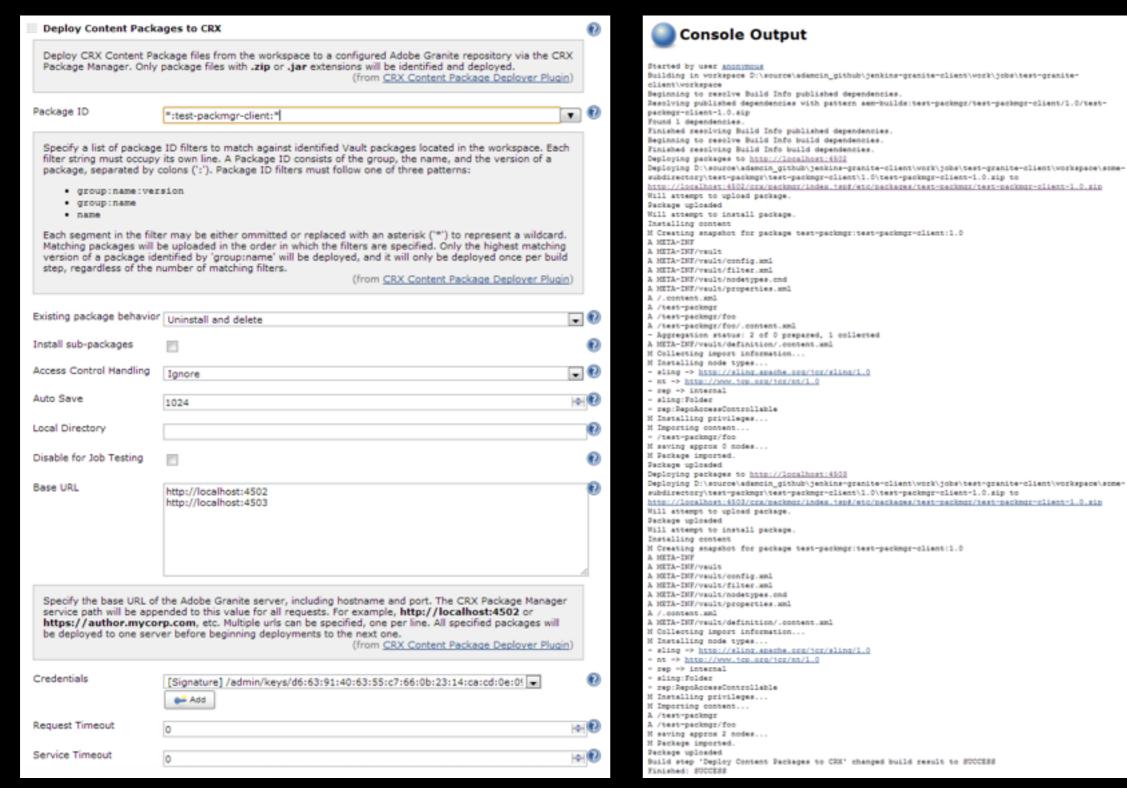
- Maven plugins like the content-package-mavenplugin and maven-vault-plugin generally only support installing one package on one host per execution.
- Managing additional packages and hosts requires a pom.xml file, usually managed separately from Jenkins in SCM.
- Maven logs are full of non-package-deploymentrelated verbosity that gets in the way of knowing whether or not installation truly succeeded.

Features

Deploy Packages

- The "Deploy Content Packages to CRX" build step can be added to any job type.
- Flexible in regards to how the package files are created and organized within the workspace, because it will recursively scan and identify any files which have a ".jar" or ".zip" extension.
- Feel free to use this step immediately after a maven build, or after the "Download Content Packages from CRX" step, or after resolving maven artifacts from a repository manager into the workspace.
- Once a package has been identified (i.e. has a valid group:name:version), the
 package will be checked against the Package ID filter to determine whether it
 must be uploaded to the configured Base URL(s).
- If a package installation succeeds with errors "(check logs!)", the build will be marked as unstable.

Deploy Packages



List Packages to Download

Select any number of content packages available for download from a CRX server as a Build Parameter, which can then be used in other components provided by this plugin.

List Packages to Download

Build

List Content Packages available for downlo	and from a configured Adobe CRX repository. (from <u>CRX Content Package Deployer Plugin</u>)
	(ITOIN CRX CONTENT PACKAGE DEDIGYET PROUIT)
ame	PACKAGE_ID
escription	
Multiselect	
sible Item Count	20 H
ckage ID Filter	day/cq561/product:*
of the group, the name, and the version of group:name:version group:name name	st the list of packages returned from the configured Granite server. A Package ID consists fa package, separated by colons (':'). Package ID filters must follow one of three patterns:
each segment in the filter may be either or	mmitted or replaced with an asterisk ("*") to represent a wildcard. (from <u>CRX Content Package Deployer Plugin</u>)
II-Text Search	
clude Packages which are not installed	☑
clude Packages which have been modified	
se URL	http://localhost:4502
	e server, including hostname and port. The CRX Package Manager service path will be r example, http://localhost:4502 or https://author.mycorp.com, etc. (from CRX Content Package Deployer Plugin)
redentials	[Signature] /admin/keys/d6:63:91:40:63:55:c7:66:0b:23:14:ca:cd:0e:09:e5
edenions	e⊸ Add
Select the login credentials with which cont the target server supports HTTP Signature	tent packages will be listed from the CRX server. [Signature] credentials may be used if Authentication using the keyId format, /\$username/keys/\$fingerprint. Select "-none-" bal CRX Content Package Deployer - HTTP Client configuration. (from CRX Content Package Deployer Plugin)
Select the login credentials with which cont the target server supports HTTP Signature	tent packages will be listed from the CRX server. [Signature] credentials may be used if Authentication using the keyId format, /\$username/keys/\$fingerprint. Select "-none-" abal CRX Content Package Deployer - HTTP Client configuration.

This build requires parameters:

PACKAGE_ID

day/cq561/product:cq-content-mac:5.6.20
day/cq561/product:cq-geometrixx-all-pkg:5.6.12
day/cq561/product:cq-geometrixx-commons-pkg:5.6.4
day/cq561/product:cq-geometrixx-media-pkg:5.6.8
day/cq561/product:cq-geometrixx-outdoors-pkg:5.6.4
day/cq561/product:cq-geometrixx-pkg:5.6.10
day/cq561/product:cq-geometrixx-users-pkg:5.6.4
day/cq561/product:cq-geometrixx-workflow-pkg:5.6.4
day/cq561/product:cq-geometrixs-workflow-pkg:5.6.4
day/cq561/product:cq-geometrix-workflow-pkg:5.6.4
day/cq561/product:cq-media-content:5.6.10

Download Packages

- The "Download Content Packages from CRX" build step can be used on any job type to download content packages to the workspace.
- Use the CRX Content Package Choice Parameter to select one or more packages from a live CRX Package Manager service.
- Downloaded packages are organized according to their CRX installation path, relative to the workspace path, or local directory, if specified.

Download Packages

Download Co	ntent Packages from CRX
Download CRX	Content Package files from a configured Adobe Granite repository into the workspace via the CRX Package Manager. (from <u>CRX Content Package Deployer Plugin</u>)
Package ID	\${PACKAGE_ID} day/cq561/product:cq-media-content:5.6.10
group, the nam	f package IDs to download to the workspace. Each package ID string must occupy its own line. A Package ID consists of the ne, and the version of a package, separated by colons (':'), as in: "group:name:version". (from CRX Content Package Deployer Plugin)
gnore Errors	
ocal Directory	
Sase URL	http://localhost:4502
Credentials	[Signature] /admin/keys/d6:63:91:40:63:55:c7:66:0b:23:14:ca:cd:0e:09:e5
Request Timeout	Console Output
Service Timeout	



Building in workspace D:\source\adamcin_github\jenkins-granite-client\work\jobs\download-granite-client\workspace Checking for package day/cq561/product:cq-geometrixx-login-pkg:5.6.4 on server http://localhost:4502 Found package: http://localhost:4502/crx/packmqr/index.isp#/etc/packages/day/cq561/product/cq-geometrixx-login-pkq-5.6.4.zip Downloading day/cq561/product:cq-geometrixx-login-pkg:5.6.4 to D:\source\adamcin_github\jenkins-granite-client\work\jobs\downloadgranite-client\workspace Downloaded 394013 bytes to file D:\source\adamcin_github\jenkins-granite-client\work\jobs\download-graniteclient\workspace\etc\packages\day\cq561\product\cq-geometrixx-login-pkg-5.6.4.zip. Verifying downloaded package... Package verified as day/cq561/product:cq-geometrixx-login-pkg:5.6.4. Checking for package day/cq561/product:cq-geometrixx-pkg:5.6.10 on server http://localhost:4502 Found package: http://localhost:4502/crx/packmgr/index.jsp#/etc/packages/day/cg561/product/cg-geometrixx-pkq-5.6.10.gip Downloading day/cq561/product:cq-geometrixx-pkg:5.6.10 to D:\source\adamcin_github\jenkins-granite-client\work\jobs\download-granite-Downloaded 36968510 bytes to file D:\source\adamcin_github\jenkins-granite-client\work\jobs\download-graniteclient\workspace\etc\packages\day\cq561\product\cq-geometrixx-pkg-5.6.10.zip. Verifying downloaded package... Package verified as day/cq561/product:cq-geometrixx-pkg:5.6.10. Checking for package day/cq561/product:cq-media-content:5.6.10 on server http://localhost:4502 Found package: http://localhost:4502/crx/packmgr/index.isp#/etc/packages/day/cg561/product/cg-media-content-5.6.10.zip Downloading day/cq561/product:cq-media-content:5.6.10 to D:\source\adamcin_github\jenkins-granite-client\work\jobs\download-granite-Downloaded 1296764 bytes to file D:\source\adamcin github\jenkins-granite-client\work\jobs\download-graniteclient\workspace\etc\packages\day\cq561\product\cq-media-content-5.6.10.zip. Verifying downloaded package... Package verified as day/cq561/product:cq-media-content:5.6.10. Finished: SUCCESS

Other Features

- Use Jenkins Credentials to define Domain Scopes if deploying to multiple environments with different credentials
- Use Jenkins SSH User Private Key Credentials instead of the admin password to avoid password management headaches.
- Use \${TOKENS} in Base URL and Package ID fields to parameterize deployment jobs

Before you deploy your first package, remember...

- Use the "Disable for Job Testing" option to execute a dry run to identify all the packages that would be installed during normal execution
- Clean up your left-over packages from your deploy job workspace when not using SCM or mvn clean!

	Set the project description from a file in the workspace (à la GitHub README.md)	1.1	
✓	Workspace Cleanup Plugin	0.19	
	This plugin deletes the workspace before the build or when a build is finished and artifacts saved.	0.19	
	Config File Provider Plugin		

Build Environment

Delete workspace before build starts

Future Features

- Replicate Packages on Install, or as a separate build step
- Create/Build Packages using a simple text format for specifying a workspace filter
- Automatic deletion of old package versions

Get It

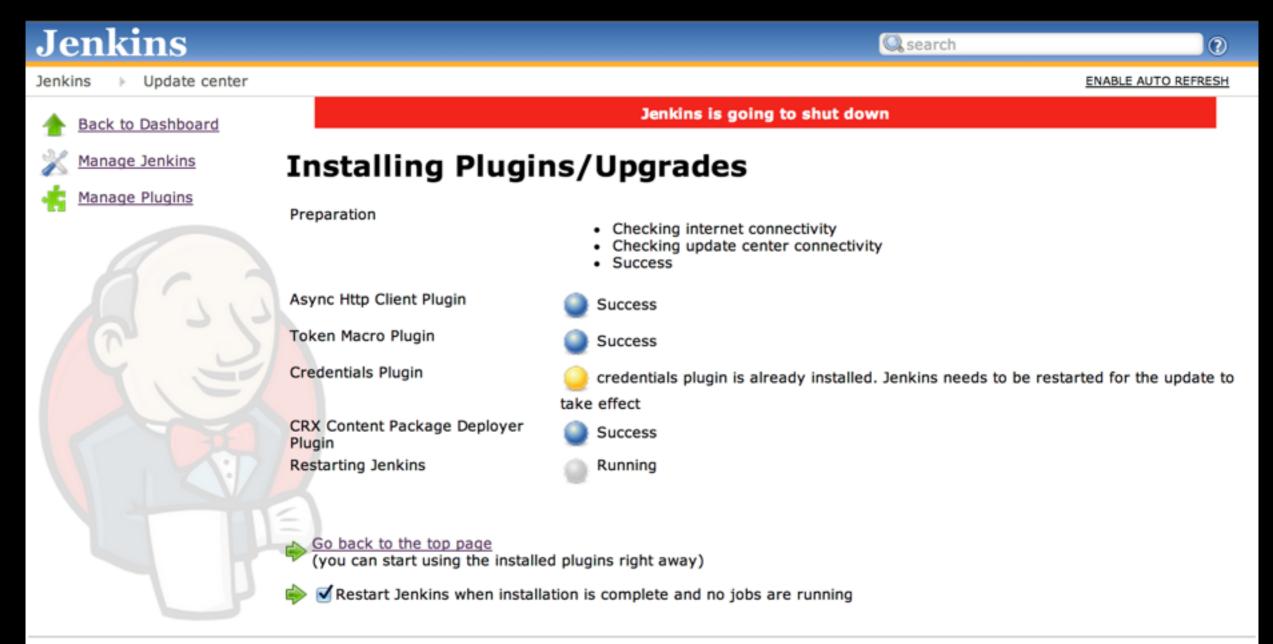
- Download Jenkins WAR from http://jenkins-ci.org/
- Install the CRX Content Package Deployment
 Plugin from the Plugin Manager

	A Jenkins CI plugin for uploading dSYM files to Crittercism.	1.1
	CRX Content Package Deployer Plugin Deploys content packages to Adobe CRX applications, like Adobe CQ 5.4, CQ 5.5, and AEM 5.6. Also allows downloading packages from one CRX server and uploading them to one or more other CRX servers.	1.0
	Deploy Plugin This plugin takes a war/ear file and deploys that to a running remote application server at the end of a build	1.9

Install without restart

Download now and install after restart

Get It



Read the Wiki!

 https://wiki.jenkins-ci.org/display/JENKINS/ CRX+Content+Package+Deployer+Plugin

Get the Source!

- https://github.com/jenkinsci/crx-content-package-deployer-plugin
- https://github.com/adamcin/granite-clientpackman
- https://github.com/adamcin/httpsig-java

Get this Deck!

http://adamcin.net/files/jenkins_crx_plugin.pdf