

adaptTo()

APACHE SLING & FRIENDS TECH MEETUP
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Install Hooks with Groovy or Sling Pipes
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Vault Install Hooks

- Execute Java class for each phase of a package install
- Phases **PREPARE/INSTALLED/END**
 - PREPARE (PREPARE_FAILED)
 - INSTALLED (INSTALL_FAILED)
 - END

InstallHook see <https://jackrabbit.apache.org/filevault/apidocs/org/apache/jackrabbit/vault/packaging/class-use/InstallHook.html>

Java Hooks are great

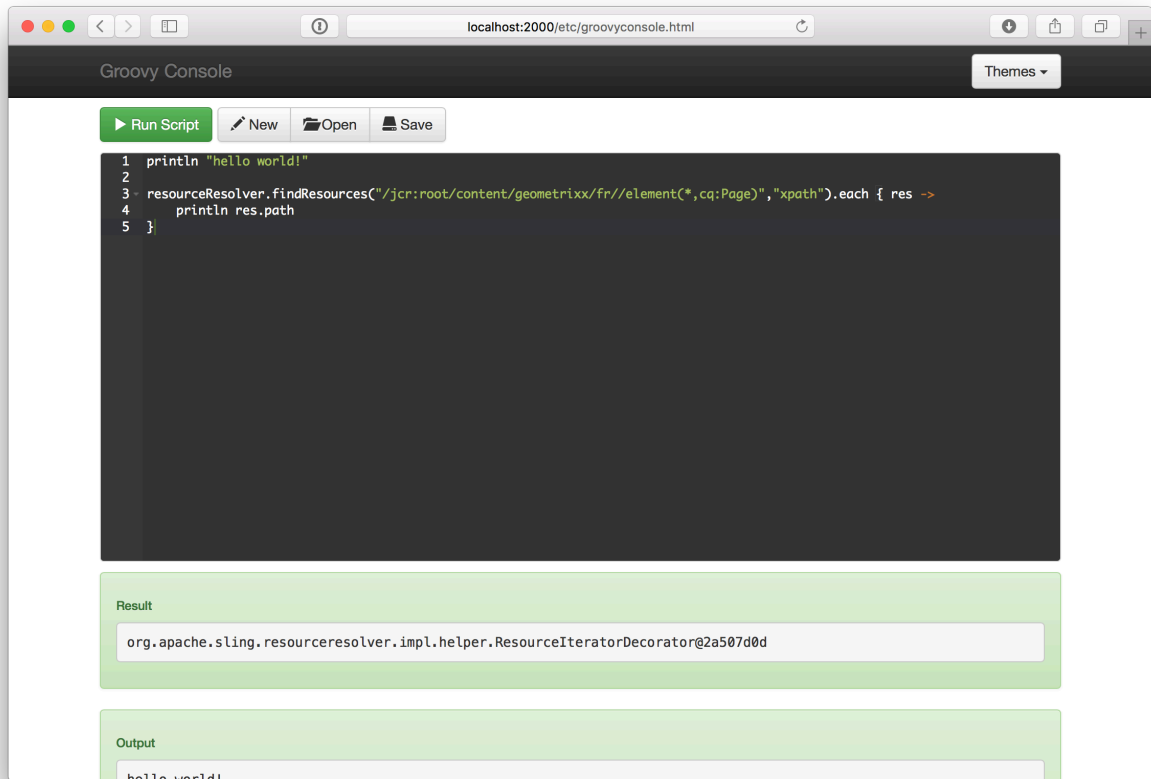
Java is great ... you just have to write a Class that does the work, recompile the InstallHook package and execute it...

... wait, but only **once**. Only for that **single version**.

I can test that ... maybe. What if it fails?



Java? Groovy! Scripts!



my

Groovy Console!

[https://github.com/Olson
Digital/cq-groovy-console](https://github.com/OlsonDigital/cq-groovy-console)

How about running Groovy scripts in that?
Actually Groovy scripts just as in console?

Demo

```
Executing content upgrade in phase PREPARE
Content version: 0.0.1-SNAPSHOT
Package version: 0.0.1-SNAPSHOT
H Executing upgrade: Update via Groovy Script. - version 0.0.1-SNAPSHOT
I Executing prepare_a.groovy
I Run in 00:00:00.001ms with output of
  PREPARE groovy: 1:
Some output
more output
I Executing prepare_something_step2.groovy
I Run in 00:00:00.000ms with output of
  PREPARE groovy: 2: Hello World
I Executing prepare_something_step3.groovy
I Run in 00:00:00.001ms with output of
  PREPARE groovy: 3: Hello World
Collecting import information...
Installing node types...
Installing privileges...
Importing content...
- /
saving approx 0 nodes...
Package imported.
Executing content upgrade in phase INSTALLED
I Executing installed-foo.groovy
I Run in 00:00:00.001ms with output of
  INSTALLED groovy: foo: Hello World
I Executing somename.groovy
I Run in 00:00:00.005ms with output of
  DEFAULT groovy: some: Hello World
DEFAULT /content/geometrixx/fr has the following sub-pages
/content/geometrixx/fr/company
/content/geometrixx/fr/community
/content/geometrixx/fr/events
/content/geometrixx/fr/support
/content/geometrixx/fr/products
/content/geometrixx/fr/services
Executing content upgrade in phase END
I Executing end-all-good.groovy
I Run in 00:00:00.000ms with output of
  END groovy: all good
Package installed in 126ms.
```

How about running Groovy scripts in that?

Actually Groovy scripts just as in console?

- Groovy Handler

```
META-INF/vault/definition/upgrader/somejobname
...
jcr:primaryType="sling:Folder"
jcr:title="Update via Custom Class."
handler="groovy"
run="always"
version="0.0.1-SNAPSHOT"
...
prepare-script.groovy
script1.groovy
end-script.groovy
```

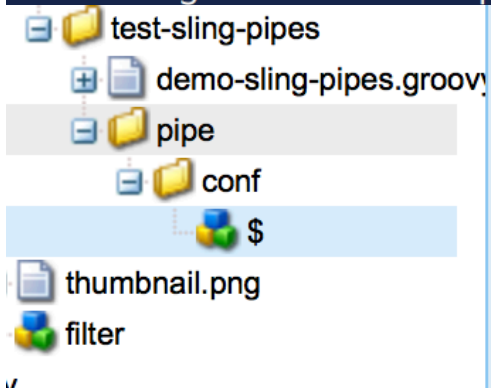
- Custom Handler

```
jcr:primaryType="sling:Folder"  
jcr:title="Update via Custom Class."  
handler="custom"  
handlerClass="com.netcentric.vlt.upgrade.MyCustomClass"  
run="once"  
version="0.0.1-SNAPSHOT"
```

```

Executing content upgrade in phase INSTALLED
I Executing demo-sling-pipes.groovy
I Run in 00:00:00.031ms with output of
/content/geometrixx/fr/products
/content/geometrixx/fr/services
/content/geometrixx/fr/company
/content/geometrixx/fr/events
/content/geometrixx/fr/support
  
```

Let's hook in Sling Pipes



Properties		Access Control	Replication	Console
	Name ▲	Type	Value	
1	expr	String	cq:Page	
2	jcr:primaryType	Name	nt:unstructured	
3	path	String	/content/geometrixx/fr	
4	sling:resourceType	String	slingPipes/slingQuery	

Demo

- Vault Upgrade Hook
 - <https://github.com/Netcentric/vault-upgrade-hook>
- Sling Pipes
 - <https://sling.apache.org/documentation/bundles/sling-pipes.html>
 - <https://github.com/apache/sling/tree/trunk/contrib/extensions/sling-pipes>
 - <https://github.com/npeltier/sling-pipes-client>