# Steps To Create A New, Branded Portal Based On Sample-Portal

One aspect of documentation for GateIn has been how to create a new, customized portal from a code-base. Steps are well documented on how to create a new portal within the JCR using the web interface, however this is limiting due to deployment through development/test/production environments, as well as various other reasons.

Steps have also been documented on how to create a customized portal by changing configuration files within the sample portal, and deploying them to the application server. However, a limitation of this, is that it prevents the deployment of multiple portals to the same application server.

To resolve these issues, a different approach must be taken. By refactoring the sample portal and its extensions, everything within a portal can be organization/brand specific, conflicts are removed, and multiple portals can be deployed to the same application server. This document intends to outline the steps to follow to create a new portal to be deployed to [*http://localhost:8080/myportal*](http://localhost:8080/myportal).

Project Structure

1. Copy entire jboss-epp-5.0-src/portal directory to a new location, *myportal*.
2. From the myportal directory, run mvn install. This is required at this level to download and build libraries required to build the portal.

Portal Files

Build Files

The first step to create a new portal package is to build the renamed portal using Maven. To complete this, all of the pom.xml files within the portal directories must be modified.

Portal Files:

* portal/config
1. Change

<artifactId>exo.portal.sample.portal.config</artifactId>

to

<artifactId>com.organization.myportal.portal.config</artifactId>

1. Change

<name>GateIn Portal Sample Portal Configuration</name>

to

<name>My Organization MyPortal Portal Configuration</name>

1. Change

<description>GateIn Sample Portal Configuration</description>

to

<description>My Organization MyPortal Portal Configuration </description>

1. Add (Optional)

<build>

<finalName>myportal-config</finalName>

</build>

 to the end of the file.

* portal/jar
1. Change

<artifactId>exo.portal.sample.portal.jar</artifactId>

to

<artifactId>com.organization.myportal.portal.jar</artifactId>

1. Change

<name>GateIn Portal Sample Portal Java Classes</name>

to

<name>My Organization MyPortal Portal Java Classes</name>

1. Change

<description>GateIn Portal Sample Portal Java Classes</description>

to

<description>My Organization MyPortal Portal Java Classes</description>

1. Add (Optional)

<build>

<finalName>myportal</finalName>

</build>

to the end of the file.

* portal/rest-war
1. Change

<artifactId>exo.portal.sample.portal.rest-war</artifactId>

to

<artifactId>com.organization.myportal.portal.rest-war</artifactId>

1. Change

<name>GateIn Portal Sample Portal Rest War</name>

to

<name>My Organization MyPortal Rest War</name>

1. Change

<description>GateIn Portal Sample Portal Rest War </description>

to

<description>My Organization MyPortal Rest War</description>

1. Change

<build>

<finalName>rest-sample-portal</finalName>

</build>

to

<build>

<finalName>rest-myportal</finalName>

</build>

* portal/war
1. Change

<artifactId>exo.portal.sample.portal.war</artifactId>

to

<artifactId>com.organization.myportal.portal.war</artifactId>

1. Change

<name>GateIn Portal Sample Portal War</name>

to

<name>My Organization MyPortal War</name>

1. Change

<description>GateIn Portal Sample Portal War</description>

to

<description>My Organization MyPortal War</description>

1. Change

<build>

<finalName>sample-portal</finalName>

</build>

to

<build>

<finalName>myportal</finalName>

</build>

* portal/ear
1. Change

<project>…<artifactId>gatein-sample-portal</artifactId>…

to

<project>…<artifactId>myportal</artifactId>…

1. Change

<project>…<name>GateIn Portal Sample Portal Ear</name>…

to

<project>…<<name>My Organization MyPortal Ear</name>…

1. Change

<project>…<description>GateIn Portal Sample Portal Ear</description>…

to

<project>…<description>My Organization MyPortal Ear</description>…

1. Change

<project>…<dependencies>…<artifactId>exo.portal.sample.portal.config<artifactId>…

to

<project>…<dependencies>…<artifactId> com.organization.myportal.portal.config<artifactId>…

1. Change

<project>…<dependencies>…<artifactId>exo.portal.sample.portal.jar<artifactId>…

to

<project>…<dependencies>…<artifactId> com.organization.myportal.portal.jar<artifactId>…

1. Change

<project>…<dependencies>…<artifactId>exo.portal.sample.portal.war<artifactId>…

to

<project>…<dependencies>…<artifactId> com.organization.myportal.portal.war<artifactId>…

1. Change

<project>…<dependencies>…<artifactId>exo.portal.sample.portal.rest-war<artifactId>…

to

<project>…<dependencies>…<artifactId> com.organization.myportal.portal.rest-war<artifactId>…

1. Change

<project>…<build>…<plugins>…<plugin>…<conifguration>…<displayName>sample-portal</displayName>…

to

<project>…<build>…<plugins>…<plugin>…<conifguration>…<displayName>myportal</displayName>…

1. Change

<project>…<build>…<plugins>…<plugin>…<conifguration>…<modules>…<jarModules>…<artifactId>exo.portal.sample.portal.config</artifactId>…

to

<project>…<build>…<plugins>…<plugin>…<conifguration>…<modules>…<jarModules>…<artifactId>com.organization.myportal .portal.config</artifactId>…

1. Change

<project>…<build>…<plugins>…<plugin>…<conifguration>…<modules>…<webModule>…<artifactId>exo.portal.sample.portal.war</artifactId>…

to

<project>…<build>…<plugins>…<plugin>…<conifguration>…<modules>…<webModule>…<artifactId>com.organization.myportal .portal.war</artifactId>…

1. Change

<project>…<build>…<plugins>…<plugin>…<conifguration>…<modules>…<webModule>…<contextRoot>sample-portal </contextRoot>…

to

<project>…<build>…<plugins>…<plugin>…<conifguration>…<modules>…<webModule>…<contextRoot>myportal</contextRoot>…

1. Change

<project>…<build>…<plugins>…<plugin>…<conifguration>…<modules>…<webModule>…<artifactId>exo.portal.sample.portal.rest-war</artifactId>…

to

<project>…<build>…<plugins>…<plugin>…<conifguration>…<modules>…<webModule>…<artifactId>com.organization.myportal.portal.rest-war</artifactId>…

1. Change

<project>…<build>…<plugins>…<plugin>…<conifguration>…<modules>…<webModule>…<contextRoot>rest-sample-portal</contextRoot>…

to

<project>…<build>…<plugins>…<plugin>…<conifguration>…<modules>…<webModule>…<contextRoot>rest-myportal</contextRoot>…

1. Change

<project>…<build>…<plugins>…<plugin>…<conifguration>…<modules>…<jarModule>…<artifactId>exo.portal.sample.portal.jar</artifactId>…

to

<project>…<build>…<plugins>…<plugin>…<conifguration>…<modules>…<jarModule>…<artifactId>com.organization.myportal.jar</artifactId>…

* portal
1. Change

<artifactId>exo.portal.sample.portal.root</artifactId>

to

<artifactId>com.organization.myportal.portal.root</artifactId>

1. Change

<name> GateIn Portal Sample Portal</name>

to

<name> My Organization MyPortal Portal</name>

1. Change

<description> GateIn Sample Portal Root Pom </description>

to

<description>My Organization MyPortal Portal Root Pom</description>

Code Files

Jar Folder (Java Files):

1. Open all of the files within *portal/jar/src/main/java/org/exoplatform/sample/portal/web*, and re-package them from

org.exoplatform.sample.portal.web

to

com.organization.myportal.portal.web

1. Change the content of the print statements as desired.
2. Run *mvn install* from within *myportal/examples/portal/jar* to ensure the project builds.

Config Folder:

Make the following changes to *portal/config/src/main/java/conf/configuration.xml*:

From within <configuration>…<external-component-plugins>…<component-plugin>…<init-params>…<object-param>

1. Change

<name>sample-portal</name>

to

<name>myportal</name>

1. Change

<object><field name=”name”><string>sample-portal<string></field>…

to

<object><field name=”name”><string>myportal</string></field>…

1. Change

<object><field name=”restContextName”><string>rest-sample-portal</string></field>…

to

<object><field name=”restContextName”><string>rest-myportal</string></field>…

1. Change

<object><field name=”realmName”><string>gatein-domain-sample-portal</string></field>…

to

<object><field name=”realmName”><string>gatein-domain-myportal-portal</string></field>…

1. Change

<object><field name=”dependecies”><collection><value><string>rest-sample-portal</string></value>…

to

<object><field name=”dependecies”><collection><value><string>rest-myportal</string></value>…

1. Change

<object><field name=”dependecies”><collection><value><string>sample-portal</string></value>…

to

<object><field name=”dependecies”><collection><value><string>myportal</string></value>…

rest-war Folder:

Within the portal/rest-war/src/main/webapp/WEB-INF/ folder, make the appropriate changes to the following files:

*Jboss-web.xml*

1. Change

<jboss-web><security-domain>java:/jaas/gatein-domain-sample-portal</security-domain></jboss-web>

to

<jboss-web><security-domain>java:/jaas/gatein-domain-myportal-portal</security-domain></jboss-web>

*web.xml*

1. Change

<web-app><display-name>rest-sample-portal</display-name>…

to

<web-app><display-name>rest-myportal</display-name>…

1. Change

<web-app><login-config><realm-name>gatein-domain-sample-portal</realm-name></login-config>…

to

<web-app><login-config><realm-name>gatein-domain-myportal-portal</realm-name></login-config>…

War Folder:

Make the following changes to *portal/war/src/main/webapp/WEB\_INF*

File: web.xml

1. Change

<web-app><display-name>sample-portal</display-name></web-app>…

to

<web-app><display-name>myportal</display-name></web-app>…

1. Change

<web-app><login-config><realm-name>gatein-domain-sample-portal</realm-name>…

to

<web-app><login-config><realm-name>gatein-domain-myportal-portal</realm-name>…

File: jboss-web.xml

1. Change

<jboss-web><security-domain>java:/jaas/gatein-domain-sample-portal</security-domain></jboss-web>

to

<jboss-web><security-domain>java:/jaas/gatein-domain-myportal-portal</security-domain></jboss-web>

Folder: conf

Rename sample-portal folder to myportal

File: conf/configuration.xml

1. Replace all occurrences of “sample-portal” with “myportal”.

File: conf/myportal/portal/portal-configuration.xml

1. Replace all occurrences of “sample-portal” with “myportal”.

File: conf/myportal/jcr/jcr-configuration.xml

1. Replace all occurrences of “sample-portal” with “myportal”.

File: conf/myportal/web/web-inf-extension-configuration.xml

1. Replace all occurrences of “org.exoplatform.sample.portal.web” with “com.organization.myportal.portal.web”.

Ear Folder:

Make the following changes to *portal/ear/src/main/META-INF/gatein-jboss-beans.xml*

1. Replace all instances of “gatein-domain-sample-portal” with “gatein-domain-myportal-portal”.
2. Replace all instances of “sample-portal” with “myportal”

Portal Extension Files

Build Files

The first step to create a new portal package is to build the renamed portal using Maven. This is done by changing all of the pom.xml files within the extension directories.

* extension/config
1. Change

<artifactId>exo.portal.sample.extension.config</artifactId>

to

<artifactId>com.organization.myportal.extension.config</artifactId>

1. Change

<name>GateIn Portal Sample Extension Configuration</name>

to

<name>My Organization MyPortal Extension Configuration</name>

1. Change

<description>GateIn Sample Extension Configuration</description>

to

<description>My Organization MyPortal Extension Configuration </description>

* extension/jar
1. Change

<artifactId>exo.portal.sample.extension.jar</artifactId>

to

<artifactId>com.organization.myportal.extension.jar</artifactId>

1. Change

<name>GateIn Portal Sample Extension Java Classes</name>

to

<name>My Organization MyPortal Extension Java Classes</name>

1. Change

<description>GateIn Sample Extension Java Classes</description>

to

<description>My Organization MyPortal Extension Java Classes</description>

* extension/war
1. Change

<artifactId>exo.portal.sample.extension.war</artifactId>

to

<artifactId>com.organization.myportal.extension.war</artifactId>

1. Change

<name>GateIn Portal Sample Extension War</name>

to

<name>My Organization MyPortal Extension War</name>

1. Change

<description>GateIn Sample Extension War</description>

to

<description>My Organization MyPortal Extension War</description>

1. Change

<build>

<finalName>sample-ext</finalName>

</build>

to

<build>

<finalName>myportal-ext</finalName>

</build>

* extension/ear

Change all instances of exo.portal.sample.extension to com.organization.myportal.extension

1. Change

<artifactId>gatein-sample-extension</artifactId>

to

<artifactId>myportal-extension</artifactId>

1. Change

<name>GateIn Portal Sample Extension Ear</name>

to

<name>My Organization MyPortal Extension Ear</name>

1. Change

<description>GateIn Portal Sample Extension Ear</description>

to

<description>My Organization MyPortal Extension Ear</description>

1. Change

<build><plugins><plugin><configuration><modules><contextRoot>sample-ext</contextRoot>…

to

<build><plugins><plugin><configuration><modules><contextRoot>myportal-ext</contextRoot>…

* Extension
1. Change all instances of exo.portal.sample.extension to com.organization.myportal.extension
2. Change

<name>GateIn Portal Sample Extension</name>

to

<name>MyPortal Portal Extension</name>

1. Change

<description>GateIn Portal Sample Extension Root Pom</description>

to

<description>MyPortal Portal Extension Root Pom</description>

Code Files

Jar Folder (Java Files):

1. Open all of the files within *extension/jar/src/main/java/org/exoplatform/sample/ext/web*, and re-package them from

org.exoplatform.sample.ext.web

to

com.organization.myportal.ext.web

1. Change the content of the print statements as desired.
2. Run *mvn install* from within *myportal/examples/portal/jar* to ensure the project builds.

Config Folder:

Make the following changes to /src/main/java/conf/configuration.xml

From within <external-component-plugins>...<component-plugin>...<init-params>...<object-param>...<object type="org.exoplatform.container.definition.PortalContainerDefinition">...<field name="dependencies">...<collection type="java.util.ArrayList">...

Change

<value><string>sample-ext</string></value>

to

<value><string>myportal-ext</string></value>

War Folder:

Make the following changes to *extension/war/src/main/webapp/WEB\_INF*

File: web.xml

1. Change

<web-app><display-name>sample-portal</display-name></web-app>…

to

<web-app><display-name>myportal</display-name></web-app>…

Folder: conf

Rename sample-ext folder to myportal-ext

File: conf/configuration.xml

1. Change all instances of “sample-ext” to “myportal-ext”.

File: conf/myportal-ext/jcr/jcr-configuration.xml

1. Replace all occurrences of “sample-ext” with “myportal-ext”.

File: conf/myportal-ext/portal/portal-configuration.xml

1. Replace all occurrences of “sample-ext” with “myportal-ext”.

File: conf/myportal/web/web-inf-extension-configuration.xml

1. Replace all occurrences of “org.exoplatform.sample.ext.web” with “com.organization.myportal.ext.web”.

Data Source File

Create a new datasource xml file, called <portal name>-ds.xml (myportal-ds.xml). The below example is for MySQL:

<datasources>

 <no-tx-datasource>

 <jndi-name>gatein-jcr\_myportal</jndi-name>

 <connection-url>jdbc:mysql://localhost:3306/sample\_jcr\_myportal

 </connection-url>

 <driver-class>com.mysql.jdbc.Driver</driver-class>

 <user-name>root</user-name>

 <password></password>

 <min-pool-size>5</min-pool-size>

 <max-pool-size>20</max-pool-size>

 <idle-timeout-minutes>0</idle-timeout-minutes>

 <prepared-statement-cache-size>32</prepared-statement-cache-size>

 </no-tx-datasource>

 <no-tx-datasource>

 <jndi-name>gatein-idm\_myportal</jndi-name>

 <connection-url>jdbc:mysql://localhost:3306/sample\_idm\_myportal

 </connection-url>

 <driver-class>com.mysql.jdbc.Driver</driver-class>

 <user-name>root</user-name>

 <password></password>

 <min-pool-size>5</min-pool-size>

 <max-pool-size>20</max-pool-size>

 <idle-timeout-minutes>0</idle-timeout-minutes>

 <prepared-statement-cache-size>32</prepared-statement-cache-size>

 </no-tx-datasource>

</datasources>

Deployment

1. Build the new portal and extension ear files using the modified Maven scripts.
2. Deploy:

myportal-ds.xml

myportal.ear

myportal-extension.ear

to the deployment folder of the application server, and start the server.