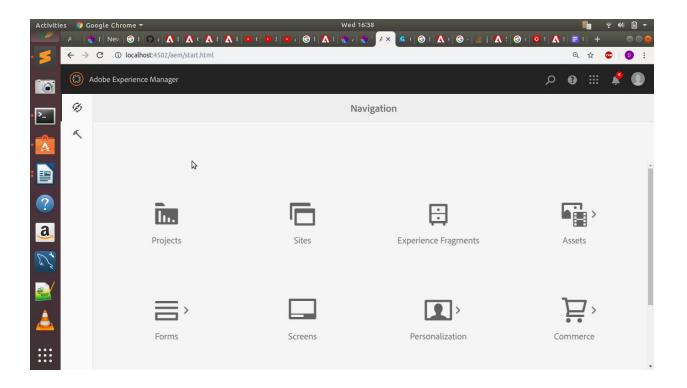
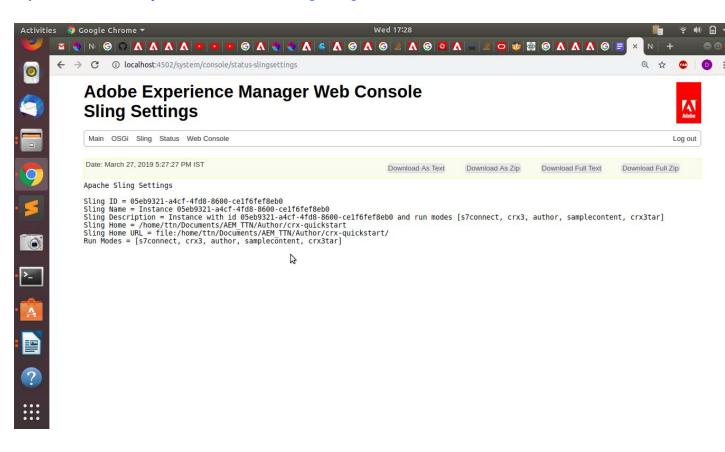
#### 1. Open AEM in debug mode

```
ttn@ttn:Author $ java -jar cq-quickstart-6.4.0.jar -fork -forkargs -- -Xdebug -Xrunjdwp:transport=dt_socket,address=59865,suspend=n,server=y -Xmx1520m -XX:MaxPermSize=512m -XX:-UseSplitVerifier
Loading quickstart properties: default
Loading quickstart properties: instance
Low-memory action set to fork
Using 64bit VM settings, min.heap=1024MB, min permgen=256MB, default fork arguments=[-Xmx1024m, -XX:MaxPermSize=256m]
The JVM reports a heap size of 1756 MB, meets our expectation of 1024 MB +/- 20
Preparing to fork JVM, OS name=Linux, isWindows=false
Forking JVM: [/home/ttn/.sdkman/candidates/java/8.0.202-amzn/jre/bin/java, -Xdebug, -Xrunjdwp:transport=dt_socket,address=59865,suspend=n,server=y, -Xmx1520m, -XX:MaxPermSize=512m, -XX:-UseSplitVerIfier, -jar, /home/ttn/Documents/AEM_TTM/Author/cq-quickstart-6.4.0.jar, -nofork, -pt,
CHILD, -forka. -forkargs, --, -Xdebug, -Xrunjdwp:transport=dt_socket,address=59865,suspend=n,server=y, -Xmx1520m, -XX:MaxPermSize=512m, -XX:-UseSplitVerIfier]
OpenJDK 64-Bit Server VM warning: ignoring option MaxPermSize=512m; support was removed in 8.0
QbenJDK 64-Bit Server VM warning: ignoring option UseSplitVerifier; support was removed in 8.0
Listening for transport dt_socket at address: 59865
Loading quickstart properties: default
Loading quickstart properties: instance
Low-memory action set to fork
Using 64bit VM settings, min.heap=1024MB, min permgen=256MB, default fork arguments=[-Xmx1024m, -XX:MaxPermSize=256m]
The JVM reports a heap size of 1351 MB, meets our expectation of 1024 MB +/- 20
Not forking JVM as -nofork option is set
Setting properties from filename '/home/ttn/Documents/AEM_TTN/Author/cq-quickstart-6.4.0.jar'
Verbose option not active, closing stdin and redirecting stdout and stderr
Redirecting stdout to /home/ttn/Documents/AEM_TTN/Author/crx-quickstart/logs/stdout.log
Redirecting stderr to /home/ttn/Documents/AEM_TTN/Author/crx-quickstart/logs/stdout.log
Press CTRL-C to shutdown the Quickstart server...
```



### 2. How to identify if AEM is Publish or Author?

i). Got to the below mentioned url to find out the AEM Status <a href="http://localhost:4502/system/console/status-slingsettings">http://localhost:4502/system/console/status-slingsettings</a>



<%
pageContext.setAttribute("runModes",
sling.getService(SlingSettingsService.class).getRunModes().toString());
%>

### **Solution**

You can use the following code in your components and templates to find out if the running instance is an author or a publish

```
DeliveryHttpServletRequest cqRequest =
  (DeliveryHttpServletRequest) request;

// flag to indicate whether instance is Author or Publish
boolean isAuthor =
!cqRequest.getCmsService().getDisplayControlSet(cqRequest).equal
s(DisplayControlSet.SHOW);

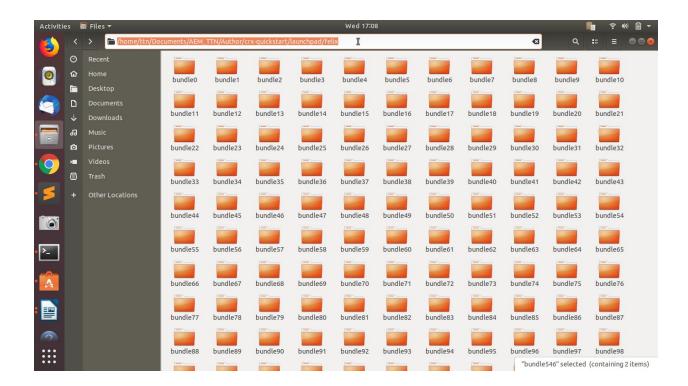
// flag to indicate whether instance is in preview/show mode
boolean isShowMode =
  (cqRequest.getCmsService().getDisplayControlSet(cqRequest).equal
s(DisplayControlSet.SHOWMODE) ||
"ShowMode".equals(cqRequest.getParameter("Show")));
```

This method is better than checking the URL, because this code does nor rely on a specific context, which can change. Also, the author server can be switched to a publish mode by setting parameter "Show" to 1 in the request. So, the request to /author/somepage.html?Show=1 renders as publish. Therefore, relying on the context is not a reliable solution.

3. a). Where are all the bundles installed in AEM resides in system?

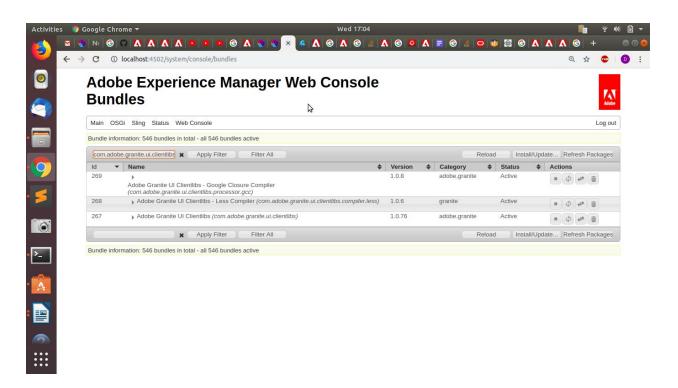
## Ans. All the bundles installed in AEM resides in system at the location:

# crx-quickstart/launchpad/felix



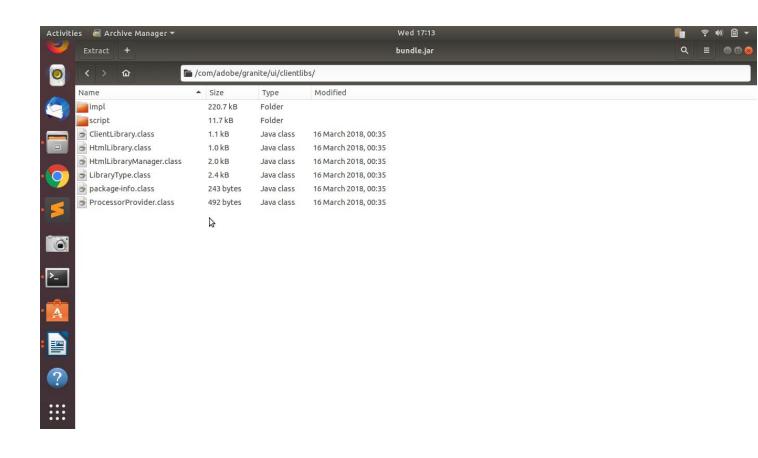
- b). Search for bundle "com.adobe.granite.ui.clientlibs" and decompile it
- i) Search for com.adobe.granite.ui.clientlibs in

http://localhost:4502/system/console/bundles

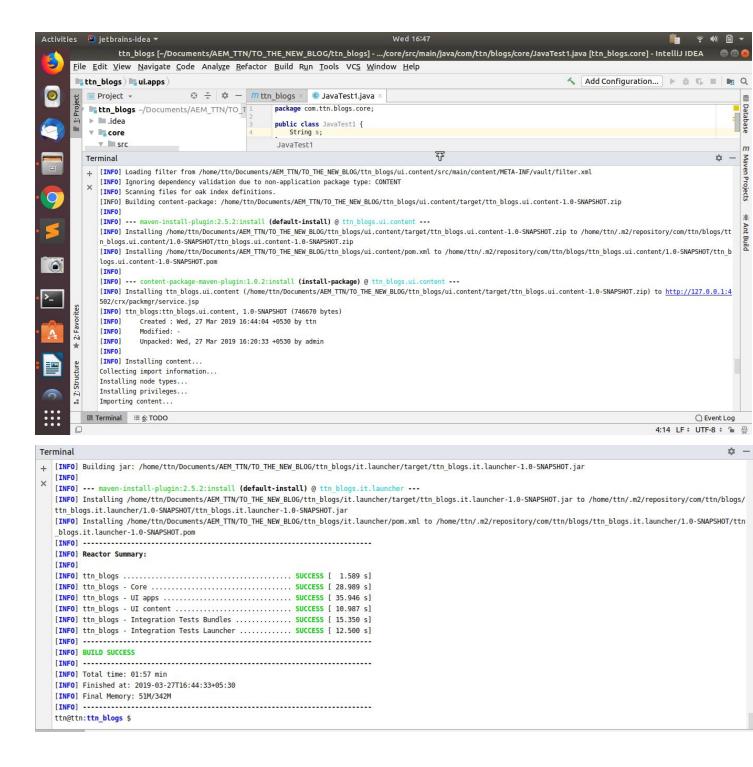


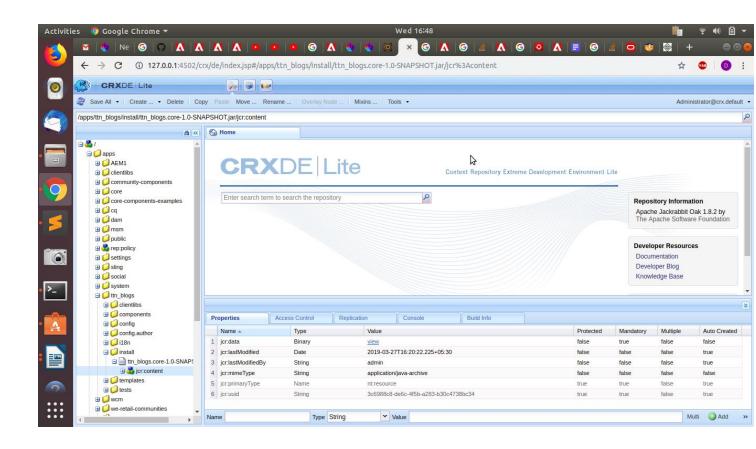
- ii) Now search for bundle 267 in crx-quickstart/launchpad/felix
- iii) Search for:

crx-quickstart/launchpad/felix/bundle267/version0.0/com/adobe/granite/ui/clientlibs/



4. How can we specify in the command line the 'port' and 'host' while installing the project.





#### 5. Why do we specify SNAPSHot in the project version?

Snapshot is a special version which indicates the current development copy of the project which is being worked on. For each build, maven always checks out for a SNAPSHOT of the project.

Hence, whenever maven finds a newer SNAPSHOT of the project, it downloads and replaces the older .jar file of the project in the local repository

A snapshot version in Maven is one that has not been released.

The idea is that before a 1.0 release (or any other release) is done, there exists a 1.0-snapshot. That version is what might become 1.0. It's basically "1.0 under development". This might be close to a real 1.0 release, or pretty far (right after the 0.9 release, for example).

The difference between a "real" version and a snapshot version is that snapshots might get updates. That means that downloading 1.0-SNAPSHOT today might give a different file than downloading it yesterday or tomorrow.

Usually, snapshot dependencies should only exist during development and no released version (i.e. no non-snapshot) should have a dependency on a snapshot version.

https://docs.oracle.com/middleware/1212/core/MAVEN/maven\_version.htm#MAVEN402