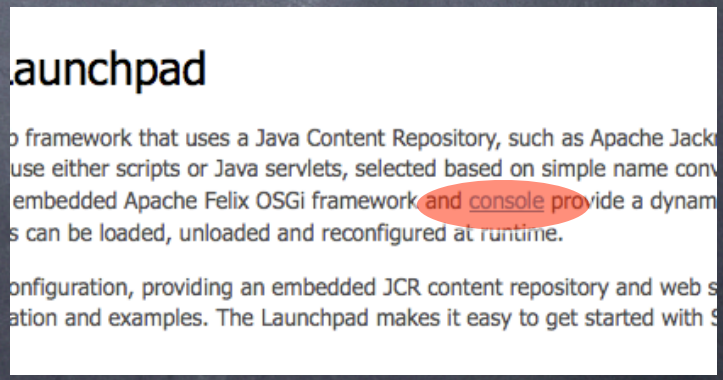
K2 Hello World

Start K2

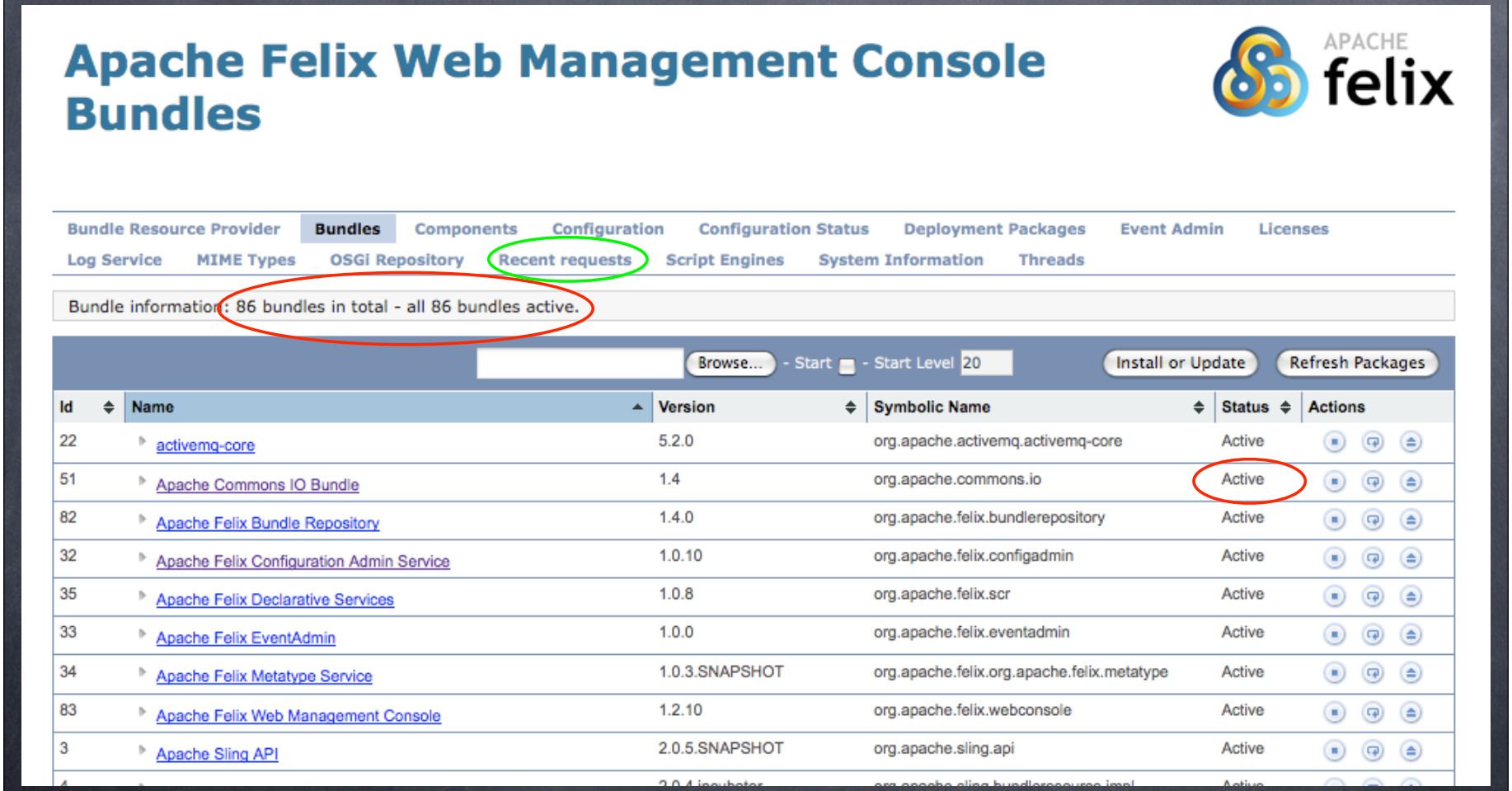
- Copy the contents of the CD onto your local disk.
- From the CD/USB -
  - cd binary
  - java -jar org.sakaiproject.kernel.app-0.1-SNAPSHOT.jar -f -

Browse to the Console

- http://localhost:8080
  - navigate to the console
  - login as admin/admin



Bundles


Apache Felix Web Management Console
Bundles
APACHE
felix
Bundle Resource Provider
Bundles
Components
Configuration
Configuration Status
Deployment Packages
Event Admin
Licenses
Log Service
MIME Types
OSGi Repository
Recent requests
Script Engines
System Information
Threads
Bundle information: 86 bundles in total - all 86 bundles active.
Browse...
- Start
- Start Level 20
Install or Update
Refresh Packages
Id
Name
Version
Symbolic Name
Status
Actions
22 activemq-core 5.2.0 org.apache.activemq.activemq-core Active
51 Apache Commons IO Bundle 1.4 org.apache.commons.io Active
82 Apache Felix Bundle Repository 1.4.0 org.apache.felix.bundlerepository Active
32 Apache Felix Configuration Admin Service 1.0.10 org.apache.felix.configadmin Active
35 Apache Felix Declarative Services 1.0.8 org.apache.felix.scr Active
33 Apache Felix EventAdmin 1.0.0 org.apache.felix.eventadmin Active
34 Apache Felix Metatype Service 1.0.3.SNAPSHOT org.apache.felix.org.apache.felix.metatype Active
83 Apache Felix Web Management Console 1.2.10 org.apache.felix.webconsole Active
3 Apache Sling API 2.0.5.SNAPSHOT org.apache.sling.api Active

Requests

Bundle Resource Provider | Bundles | Components | Configuration | Configuration Status | Deployment Packages | Event Admin | Licenses | Log Service
MIME Types | OSGi Repository | **Recent requests** | Script Engines | System Information | Threads

Recent Requests (Clear)

Request 0 (latest) Request 1 Request 2 Request 3 Request 4 Request 5 Request 6 Request 7 Request 8 Request 9 Request 10 **Request 11** Request 12 Request 13 Request 14 Request 15 Request 16 Request 17 Request 18 Request 19

Request 11 - RequestProgressTracker Info

```
0 (2009-07-07 11:38:56) Starting Request Processing
0 (2009-07-07 11:38:56) Method=POST, PathInfo=/test/nodepath/node1246981136
0 (2009-07-07 11:38:56) Starting ResourceResolution
3 (2009-07-07 11:38:56) URI=/test/nodepath/node1246981136 resolves to Resource=NonExistingResource, path=/test/nodepath/node1246981136, elapsed = 3ms
3 (2009-07-07 11:38:56) Resource Path Info: SlingRequestPathInfo: path='/test/nodepath/node1246981136', selectorString='null', extension='null', suffix='null'
3 (2009-07-07 11:38:56) Starting ServletResolution
3 (2009-07-07 11:38:56) Starting resolverServlet(NonExistingResource, path=/test/nodepath/node1246981136)
4 (2009-07-07 11:38:56) Using Servlet org.apache.sling.servlets.post.impl.SlingPostServlet, elapsed = 1ms
4 (2009-07-07 11:38:56) URI=/test/nodepath/node1246981136 handled by Servlet=org.apache.sling.servlets.post.impl.SlingPostServlet, elapsed = 1ms
4 (2009-07-07 11:38:56) Applying request filters
4 (2009-07-07 11:38:56) Calling filter: org.apache.sling.engine.impl.debug.RequestProgressTrackerLogFilter
4 (2009-07-07 11:38:56) Starting org.apache.sling.servlets.post.impl.SlingPostServlet#0
9 (2009-07-07 11:38:56) org.apache.sling.servlets.post.impl.SlingPostServlet#0, elapsed = 5ms
9 (2009-07-07 11:38:56) Request Processing ends, elapsed = 9ms
```

more Requests

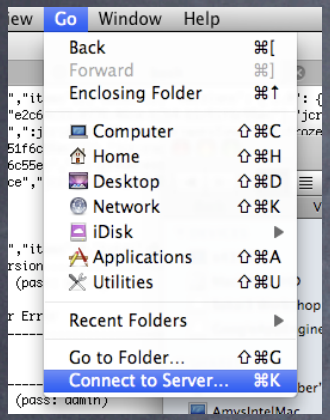
Recent Requests (Clear)

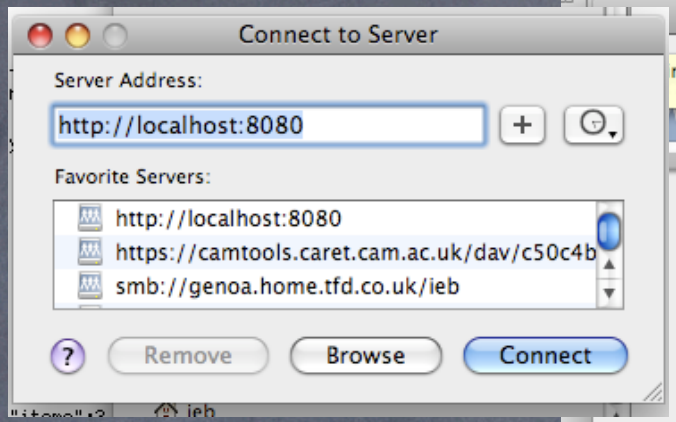
Request 0 (latest) Request 1 Request 2 Request 3 Request 4 Request 5 Request 6 Request 7 Request 8 Request 9 **Request 10** Request 11 Request 12 Request 13 Request 14 Requ
Request 16 Request 17 Request 18 Request 19

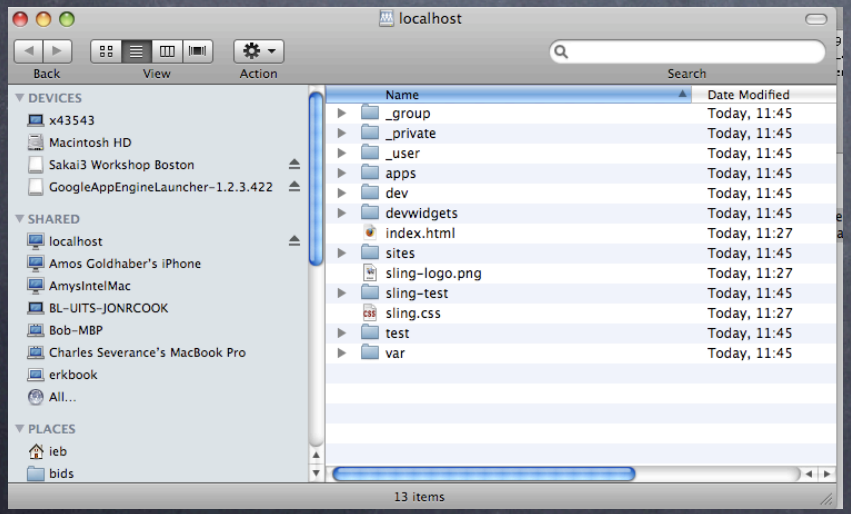
Request 10 - RequestProgressTracker Info

```
0 (2009-07-07 11:38:56) Starting Request Processing
0 (2009-07-07 11:38:56) Method=GET, PathInfo=/test/nodepath/node1246981136.json
0 (2009-07-07 11:38:56) Starting ResourceResolution
1 (2009-07-07 11:38:56) URI=/test/nodepath/node1246981136.json resolves to Resource=JcrNodeResource, type=nt:unstructured, path=/test/nodepath/node1246981136, el
1 (2009-07-07 11:38:56) Resource Path Info: SlingRequestPathInfo: path='/test/nodepath/node1246981136', selectorString='null', extension='json', suffix='null'
1 (2009-07-07 11:38:56) Starting ServletResolution
1 (2009-07-07 11:38:56) Starting resolverServlet(JcrNodeResource, type=nt:unstructured, path=/test/nodepath/node1246981136)
1 (2009-07-07 11:38:56) Using Servlet org.apache.sling.servlets.get.DefaultGetServlet, elapsed = 0ms
1 (2009-07-07 11:38:56) URI=/test/nodepath/node1246981136.json handled by Servlet=org.apache.sling.servlets.get.DefaultGetServlet, elapsed = 0ms
1 (2009-07-07 11:38:56) Applying request filters
1 (2009-07-07 11:38:56) Calling filter: org.apache.sling.engine.impl.debug.RequestProgressTrackerLogFilter
1 (2009-07-07 11:38:56) Starting org.apache.sling.servlets.get.DefaultGetServlet#0
1 (2009-07-07 11:38:56) Using org.apache.sling.servlets.get.impl.helpers.JsonRendererServlet to render for extension=json
2 (2009-07-07 11:38:56) org.apache.sling.servlets.get.DefaultGetServlet#0, elapsed = 1ms
2 (2009-07-07 11:38:56) Request Processing ends, elapsed = 2ms
```

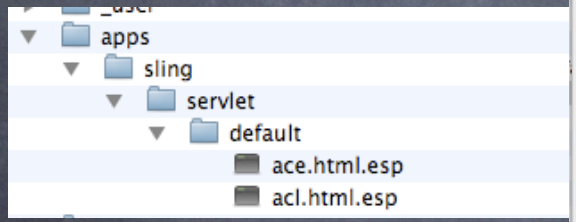
Mount K2 Filesystem

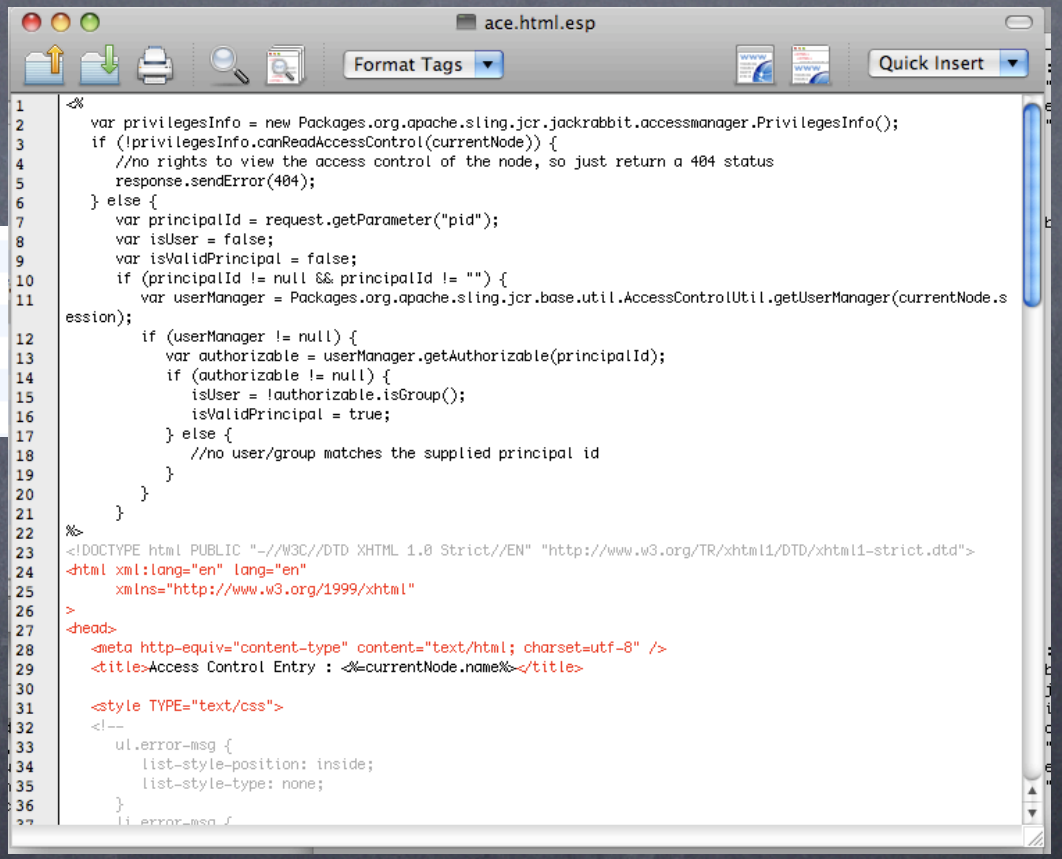






Standard Apps






```
<%
   var privilegesInfo = new Packages.org.apache.sling.jcr.jackrabbit.accessmanager.PrivilegesInfo();
   if (!privilegesInfo.canReadAccessControl(currentNode)) {
      //no rights to view the access control of the node, so just return a 404 status
      response.sendError(404);
   } else {
      var principalId = request.getParameter("pid");
      var isUser = false;
      var isValidPrincipal = false;
      if (principalId != null && principalId != "") {
         var userManager = Packages.org.apache.sling.jcr.base.util.AccessControlUtil.getUserManager(currentNode.session);
         if (userManager != null) {
            var authorizable = userManager.getAuthorizable(principalId);
            if (authorizable != null) {
               isUser = !authorizable.isGroup();
               isValidPrincipal = true;
            } else {
               //no user/group matches the supplied principal id
            }
         }
      }
%>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xml:lang="en" lang="en"
      xmlns="http://www.w3.org/1999/xhtml"
>
<head>
   <meta http-equiv="content-type" content="text/html; charset=utf-8" />
   <title>Access Control Entry : <%=currentNode.name%></title>

   <style TYPE="text/css">
   <!--
      ul.error-msg {
         list-style-position: inside;
         list-style-type: none;
      }
      li.error-msg {
```

Hello World

- Create a Node
  - curl -Fsling:resourceType=sakai/hello http://admin:admin@localhost:8080/helloworld
- Browse to the Node http://admin:admin@localhost:8080/helloworld.json

Bind a Servlet

- mkdir -p /apps/sakai/hello
- vi /apps/sakai/hello/html.jsp
- Browse to http://localhost:8080/helloworld

Do something more

- Get the current resource
- http://cwiki.apache.org/SLING/scripting-variables.html
- currentNode == the Current JCR node eg / helloworld
- edit /apps/sakai/hello/html.jsp