

FuegoBPM Portlet  
deployment  
in  
BEA WebLogic Portal

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# FuegoBPM Portlet deployment in BEA WebLogic Portal

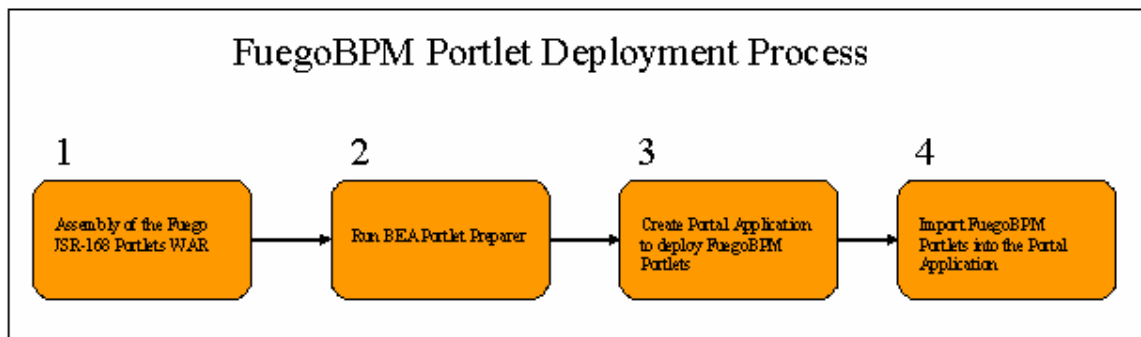
## *Introduction*

Fuego provides a JSR-168 Portlet compliant implementation for end users to interact with deployed business processes in its FuegoBPM Enterprise packages that can be deployed in an existing Portal infrastructure. These portlets can be deployed within the context of a broader Portal deployment (such as BEA WebLogic Portal) to enable end user participation through a centralized collaboration tool.

The following document will provide instructions to deploy the FuegoBPM Portlets into a BEA WebLogic Portal installation. The version used while writing this document was BEA WebLogic Portal version 8.1 Service Pack 5 for Microsoft Windows X86-32 bits.

## *The deployment process*

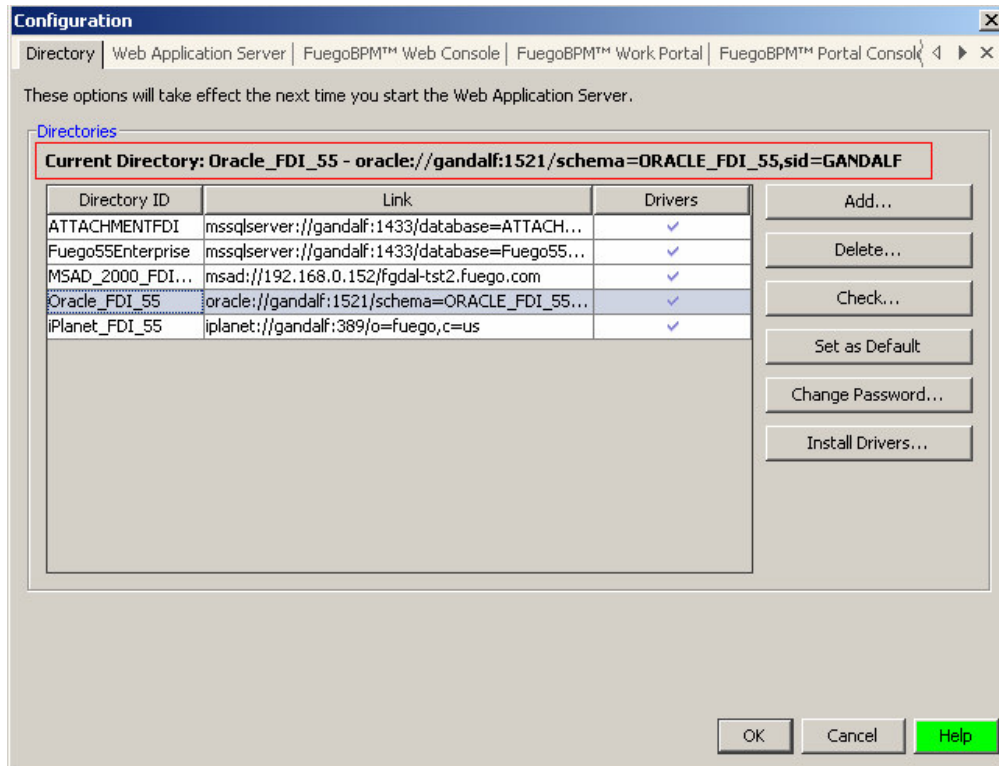
The following diagram shows a high level description of the process to deploy the FuegoBPM Portlets into a BEA WebLogic Portal.



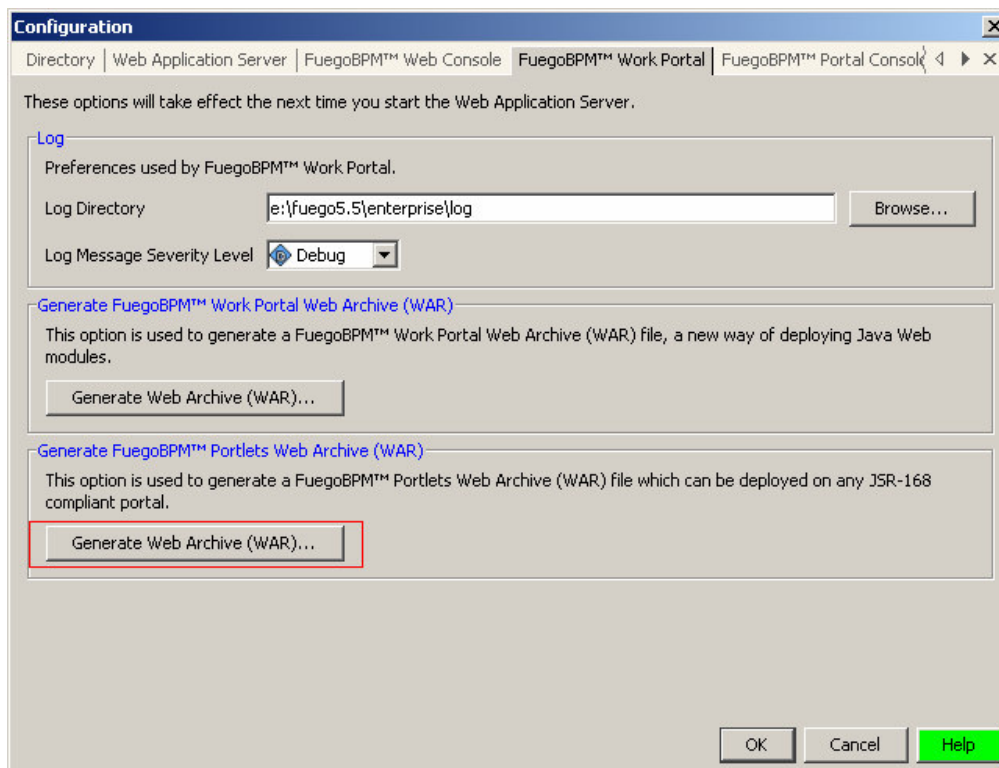
## **1. Assembly and generation of the FuegoBPM Portlets WAR**

In order to generate the JSR-168 Portlet WAR package, the Fuego Administrator should launch FuegoBPM Admin Center. In the main panel of the FuegoBPM Admin Center, the Fuego Administration should click on the “Configuration”. This action will open up a Configuration panel containing installation information.

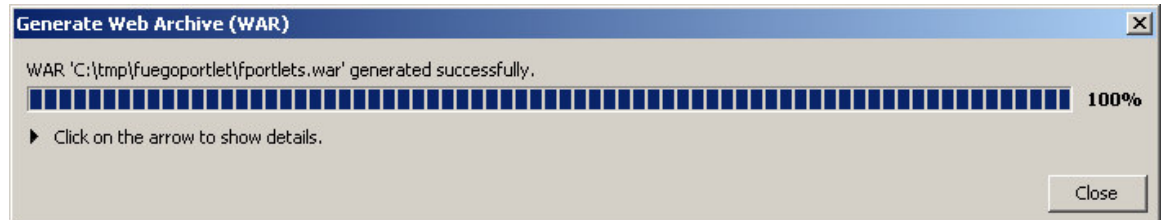
Before the FuegoBPM Portlet WAR package is generated, the Fuego Administrator should check the Directory Service the Portlets will connect, is selected as the default one. This can be done by checking the second Tab on the Configuration Panel as shown below. In most of the cases there is only one Directory Service configured.



Once the Directory Service has been validated, the Fuego Administrator should click on the “FuegoBPM Work Portal” Tab. This panel has a button to generate the FuegoBPM Portlets WAR file as shown in the figure below.



After clicking in the “Generate Web Archive (WAR) ...” button, the Fuego Administration should select a directory to store temporarily the WAR file. In our case and for this example, we are using the c:\tmp\fuegoportlet directory. The figure below indicates a success FuegoBPM Portlet WAR package generation. The Fuego Administrator should click “Close” to finish the “fportlets.war” (default portlet war file) WAR packaging.



## 2. Running BEA Portlet Preparer Tool

In order to deploy JSR-168 Portlets into the BEA WebLogic Portal, it is necessary to run a filter process called “Portlet Preparer” over the JSR-168 Portlets Packaging. This Portlet Preparer tool simply generates 2 new files needed when importing the JSR-168 Portlets into a BEA Portal Application.

The following is the description of what the Portlet Prepared Tool does extracted from its original packaged documentation: “The Portlet Preparer Tool is used to create .portlet files out of JSR168 portlets contained in war file, thereby allowing Weblogic Workshop to import the contents of that war file as a new Portal Web Project.”

The Portlet Preparer tool will take the FuegoBPM Portlets WAR file as an input, parse and examine the existing configuration files and generate 2 new BEA portlet specific files.

The following represents the directory layout of the FuegoBPM Portlets Web Application along with the location of the newly generated configuration files produced by the BEA Portlet Preparer tool.

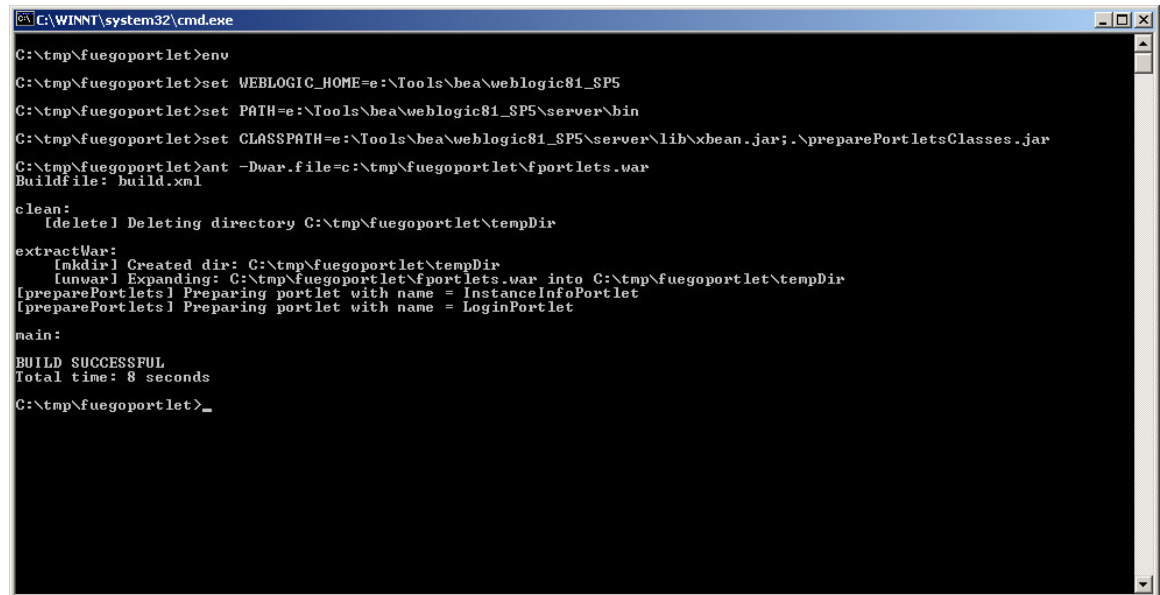
```
WAR
|___ css
|___ images
|___ js
|___ portlets
|   |___ InstanceInfoPortlet.portlet
|   |___ LoginPortlet.portlet
|___ WEB-INF
```

Each one of the newly .portlet files matches the existing JSR-168 Portlets provided by Fuego.

For this document, Fuego will assume you have already read the documentation contained in the Portlet Prepare Tool provided by BEA and have proceeded to do all the environment setup. For convenience, this tutorial has extracted the content of the Portlet Preparer tool in the same directory where the “fportlets.war” file was saved. The following is the list of steps to follow to run the Portlet Prepared extracted from the Portlet Preparer embedded documentation.

1. Extract portletConverter.jar to a temporary location on your hard drive (In the following instructions this directory will be called <converter-root>). For our example, this directory is c:\tmp\fuegoportlet).
2. Place your war file (fportlets.war) in <converter-root>. This file has been already copied into the c:\tmp\fuegoportlet per previous instruction steps.
3. Set the WEBLOGIC\_HOME in env.sh or env.bat. This is installation specific.
4. run env.sh or env.bat to set the environment.
5. run ant -Dwar.file=<war-file-name> (where <war-file-name> is the name of the war file).
6. A directory called tempDir under <converter-root> is created with the result of running the Portlet Preparer tool.

The following is just a walk through the steps mentioned above.



```
C:\WINNT\system32\cmd.exe
C:\tmp\fuegoportlet>env
C:\tmp\fuegoportlet>set WEBLOGIC_HOME=e:\Tools\bea\weblogic81_SP5
C:\tmp\fuegoportlet>set PATH=e:\Tools\bea\weblogic81_SP5\server\bin
C:\tmp\fuegoportlet>set CLASSPATH=e:\Tools\bea\weblogic81_SP5\server\lib\xbean.jar;.\preparePortletsClasses.jar
C:\tmp\fuegoportlet>ant -Dwar.file=c:\tmp\fuegoportlet\fportlets.war
Buildfile: build.xml

clean:
[delete] Deleting directory C:\tmp\fuegoportlet\tempDir

extractWar:
[mkdir] Created dir: C:\tmp\fuegoportlet\tempDir
[unwar] Expanding: C:\tmp\fuegoportlet\fportlets.war into C:\tmp\fuegoportlet\tempDir
[preparePortlets] Preparing portlet with name = InstanceInfoPortlet
[preparePortlets] Preparing portlet with name = LoginPortlet

main:

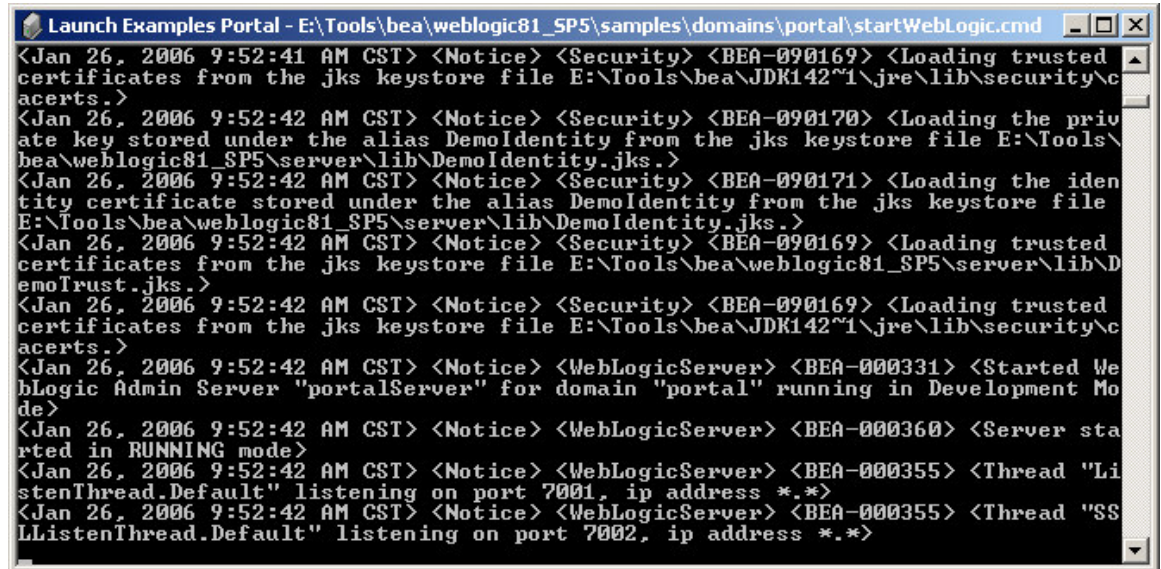
BUILD SUCCESSFUL
Total time: 8 seconds
C:\tmp\fuegoportlet>_
```

### ***3. Creating a new Portal Application to deploy Portlets***

This document will concentrate on deploying the FuegoBPM Portlets into a new Portal Application. In any event, the Portlets can also be imported into an existing Portal Application. If this is the case, you can go to step 4 and skip this section.

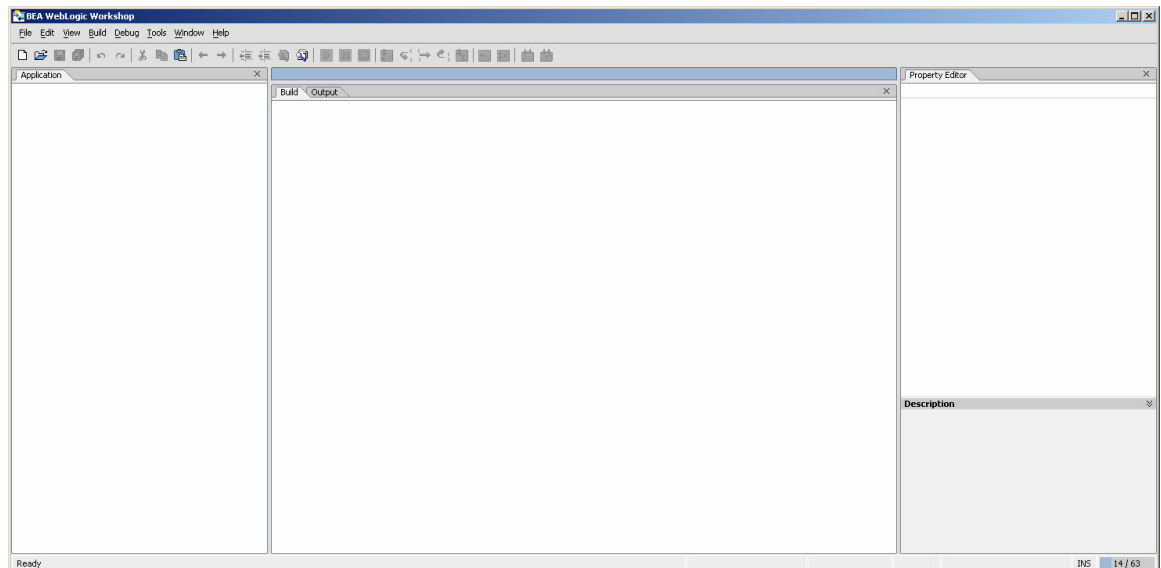
To create a new Portal Application, follow these steps.

1. Start the BEA Portal Server located in Start → BEA WebLogic Platform 8.1 → Examples → WebLogic Portal → Launch Examples Portal. The following is an expected output of the BEA Examples Portal starting successfully.

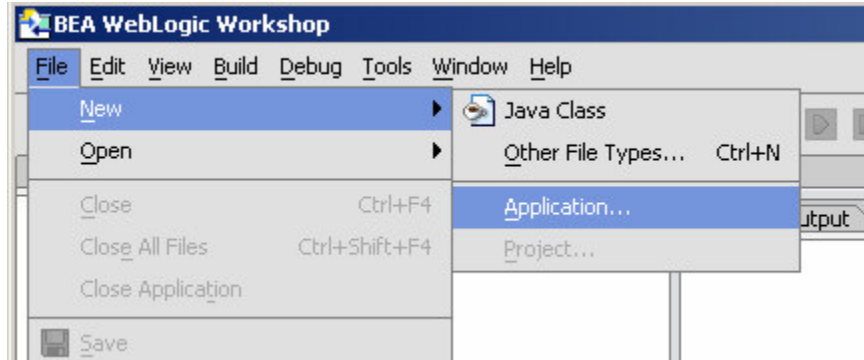


```
Launch Examples Portal - E:\Tools\bea\weblogic81_SP5\samples\domains\portal\startWebLogic.cmd
<Jan 26, 2006 9:52:41 AM CST> <Notice> <Security> <BEA-090169> <Loading trusted
certificates from the jks keystore file E:\Tools\bea\JDK142\1\jre\lib\security\cacerts.>
<Jan 26, 2006 9:52:42 AM CST> <Notice> <Security> <BEA-090170> <Loading the private key stored under the alias Demoidentity from the jks keystore file E:\Tools\bea\weblogic81_SP5\server\lib\Demoidentity.jks.>
<Jan 26, 2006 9:52:42 AM CST> <Notice> <Security> <BEA-090171> <Loading the identity certificate stored under the alias Demoidentity from the jks keystore file E:\Tools\bea\weblogic81_SP5\server\lib\Demoidentity.jks.>
<Jan 26, 2006 9:52:42 AM CST> <Notice> <Security> <BEA-090169> <Loading trusted certificates from the jks keystore file E:\Tools\bea\weblogic81_SP5\server\lib\DemoTrust.jks.>
<Jan 26, 2006 9:52:42 AM CST> <Notice> <Security> <BEA-090169> <Loading trusted certificates from the jks keystore file E:\Tools\bea\JDK142\1\jre\lib\security\cacerts.>
<Jan 26, 2006 9:52:42 AM CST> <Notice> <WebLogicServer> <BEA-000331> <Started WebLogic Admin Server "portalServer" for domain "portal" running in Development Mode>
<Jan 26, 2006 9:52:42 AM CST> <Notice> <WebLogicServer> <BEA-000360> <Server started in RUNNING mode>
<Jan 26, 2006 9:52:42 AM CST> <Notice> <WebLogicServer> <BEA-000355> <Thread "ListenThread.Default" listening on port 7001, ip address *.*>
<Jan 26, 2006 9:52:42 AM CST> <Notice> <WebLogicServer> <BEA-000355> <Thread "SSLListenThread.Default" listening on port 7002, ip address *.*>
```

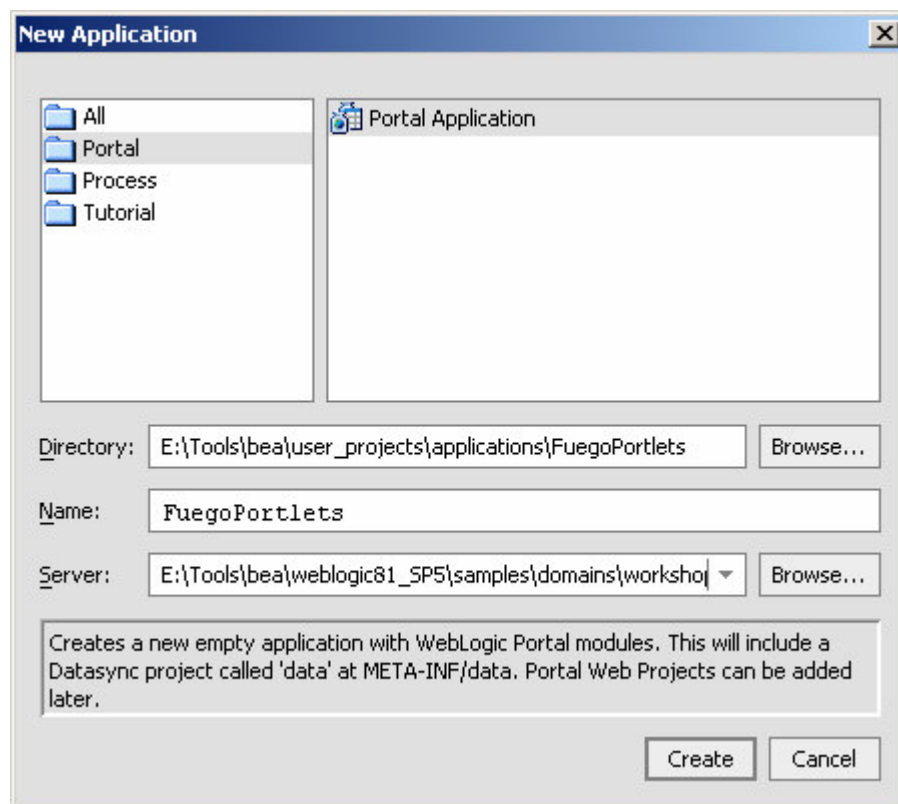
2. Launch BEA WebLogic Workshop located in Start → BEA WebLogic Platform 8.1 → WebLogic Workshop 8.1. The figure bellows shown BEA's Workshop IDE.



3. Ignore any error messages.
4. Go to File → New → Application.

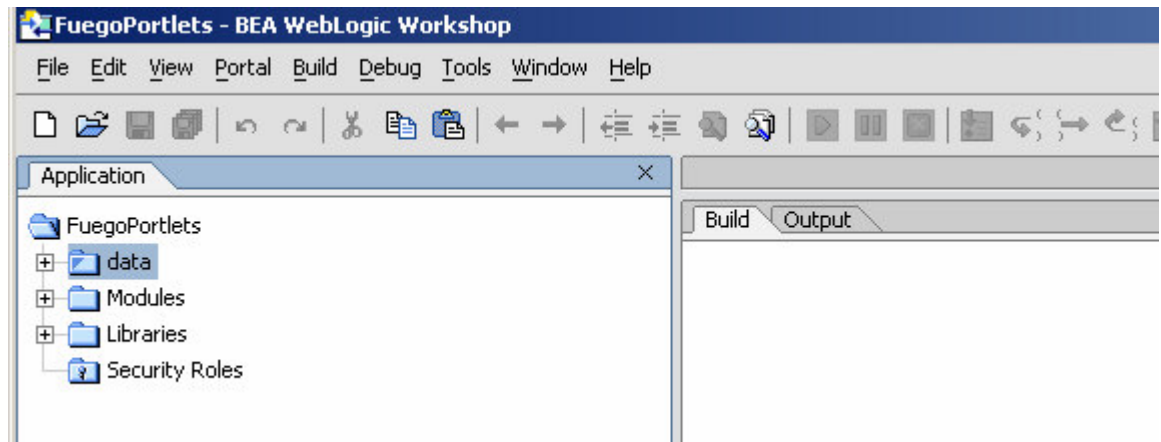


5. Then select Portal and Portal Application providing a Portal Application name in the “Name” text field as shown below and then press “Create”.



6. The Workshop will contact the Server and update the current context and deploy our new portal application. The following is an extract from the BEA Workshop IDE after completing the Portal Application Creation.



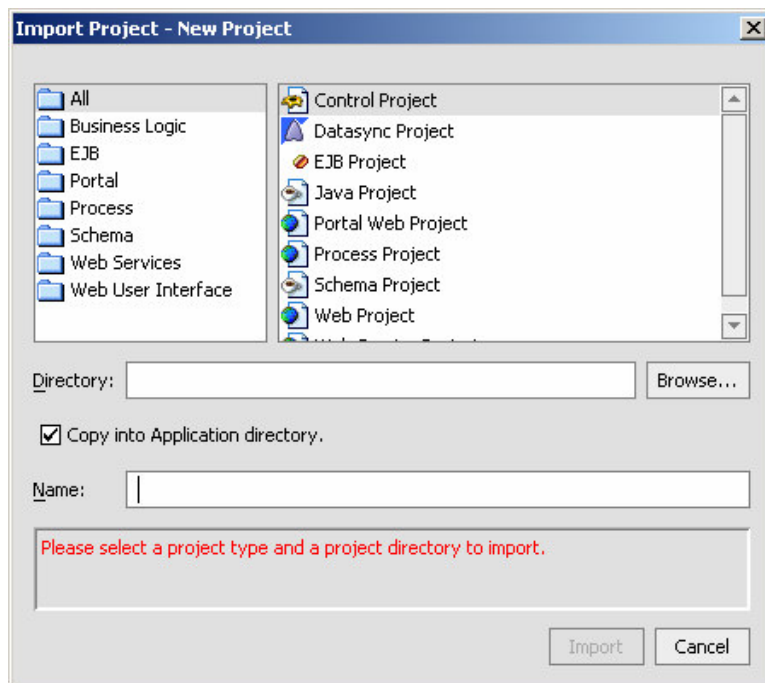


#### 4. Importing FuegoBPM Portlets into the Portal Application

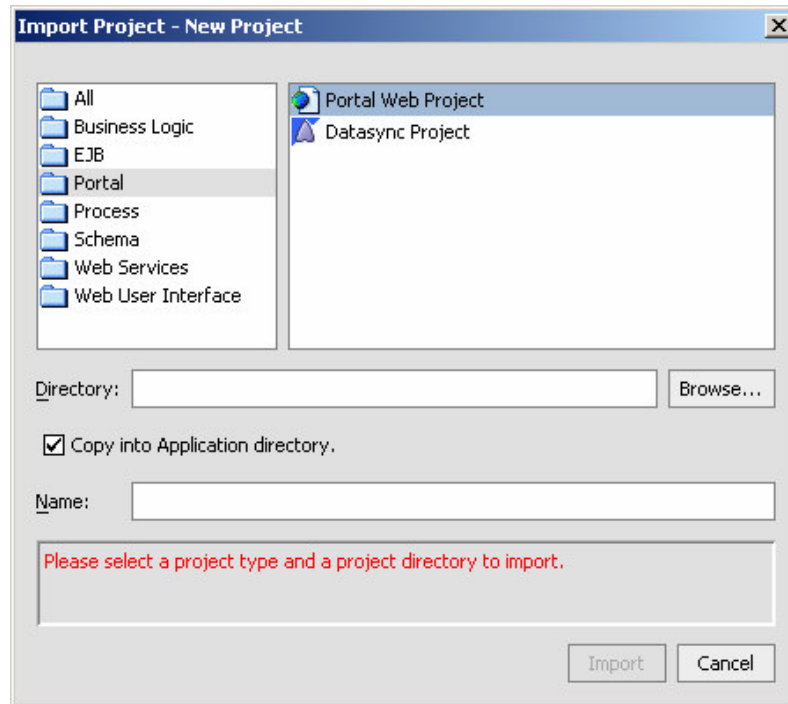
Once the Portal Project has been created (or actually you are using an existing one), the remaining steps is to import the modified Web Application with the .portlet files produced by the Portlet Preparer tool into the BEA Portal Application in the Workshop IDE.

These are the steps to import the portlets into the Workshop IDE.

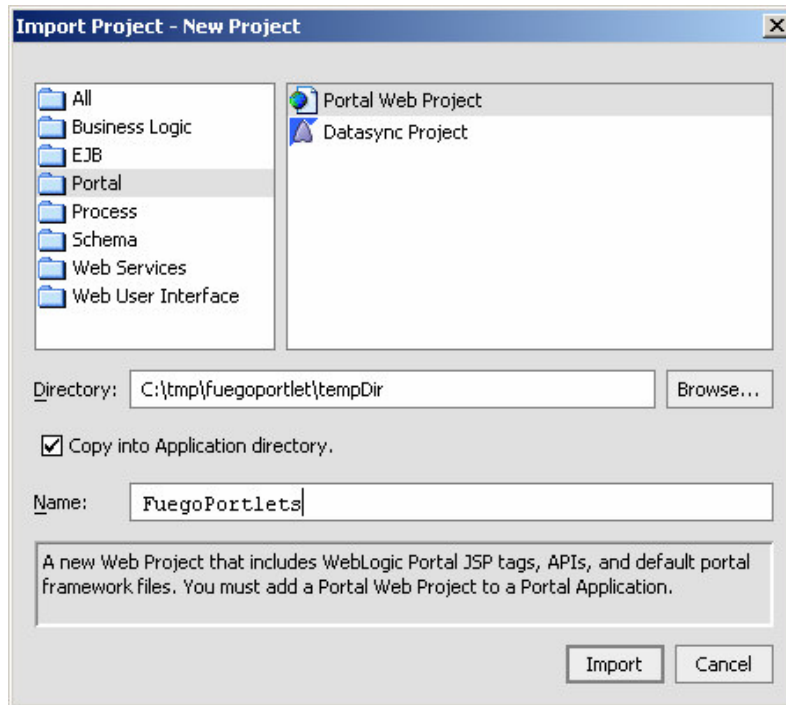
1. In the project tree panel on the left side of the screen, right click on the root node (it has the name of the current application) and select the Import Project option. The dialog below depicts this new opened dialog.



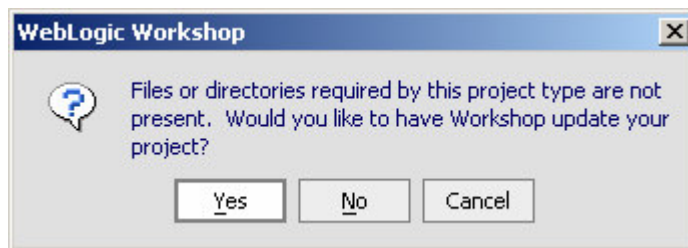
2. In this new panel, select the Portal → Portal Web Project module as shown in the figure below.



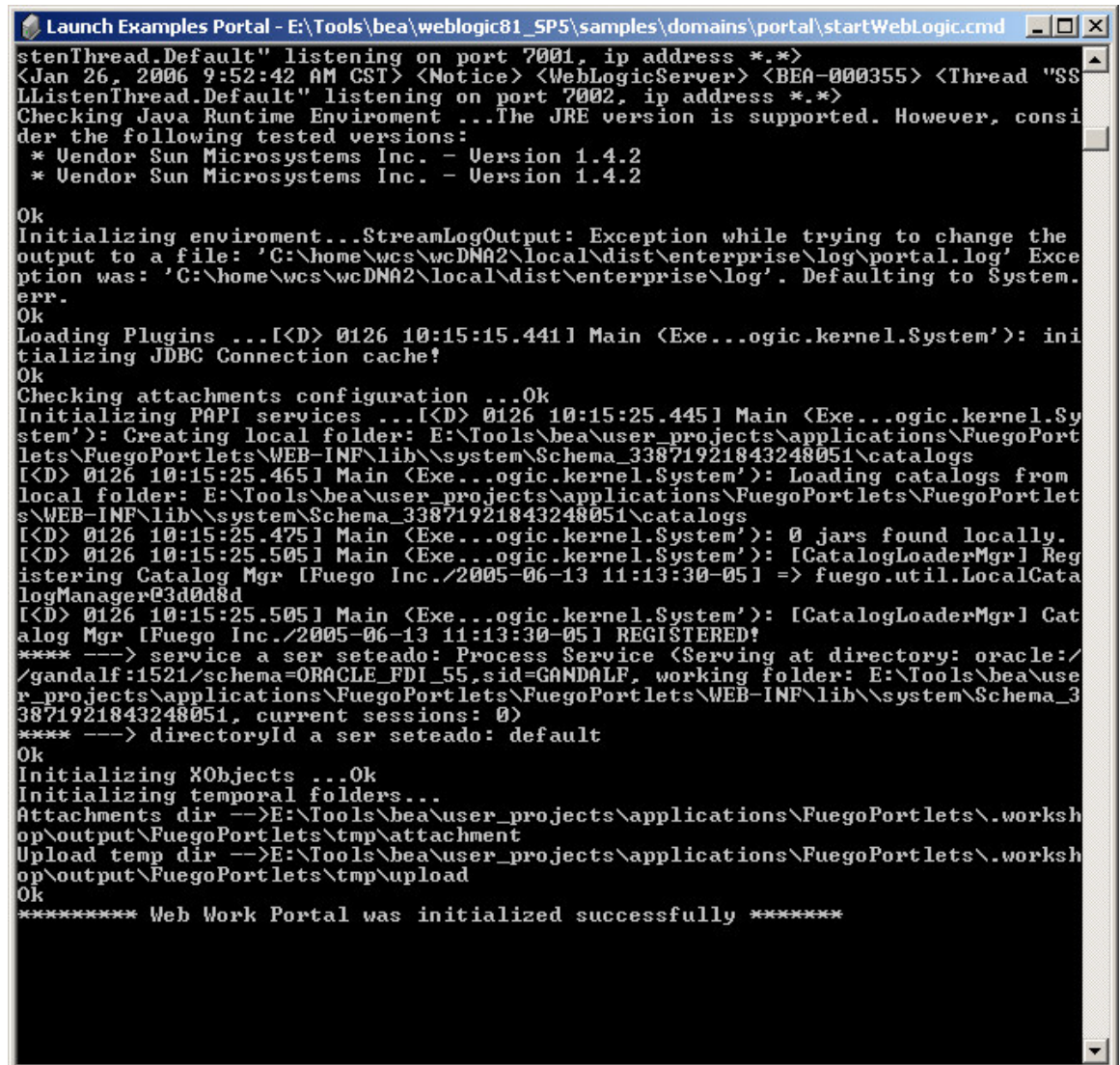
3. Press the browse button and in the file selection dialog find the directory tempDir previously created by the Portlet Preparer tool (in our case it is c:\tmp\fuegoportlet\tempDir) and press Import after entering the name of the new module. The selection is shown in the figure below.



- At the end of the import process, the following dialog will be presented in BEA's Workshop. It is necessary to click "Yes" to complete the import process successfully.



- After this, BEA's Workshop will update the project, contact the Portal and update the Portal Server.
- The following is an expected output in the Portal Server console.



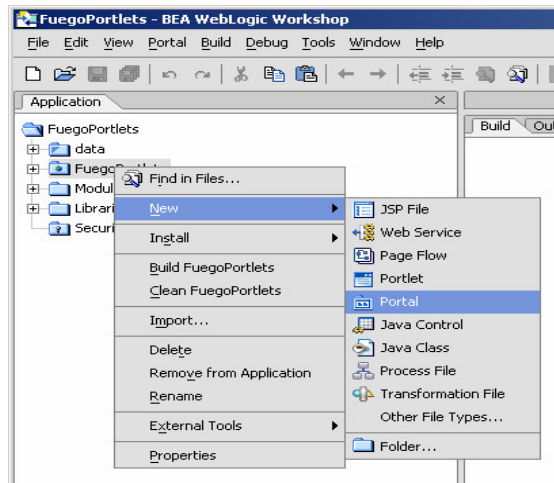
```
Launch Examples Portal - E:\Tools\bea\weblogic81_SP5\samples\domains\portal\startWebLogic.cmd
stenThread.Default" listening on port 7001, ip address *.*
<Jan 26, 2006 9:52:42 AM CST> <Notice> <WebLogicServer> <BEA-000355> <Thread "SSL
ListenThread.Default" listening on port 7002, ip address *.*>
Checking Java Runtime Environment ...The JRE version is supported. However, consi
der the following tested versions:
* Vendor Sun Microsystems Inc. - Version 1.4.2
* Vendor Sun Microsystems Inc. - Version 1.4.2
Ok
Initializing enviroment...StreamLogOutput: Exception while trying to change the
output to a file: 'C:\home\wcs\wcDNA2\local\dist\enterprise\log\portal.log' Exce
ption was: 'C:\home\wcs\wcDNA2\local\dist\enterprise\log'. Defaulting to System.
err.
Ok
Loading Plugins ...[<D> 0126 10:15:15.441] Main <Exe...ogic.kernel.System>: ini
tializing JDBC Connection cache!
Ok
Checking attachments configuration ...Ok
Initializing PAPI services ...[<D> 0126 10:15:25.445] Main <Exe...ogic.kernel.Sy
stem>: Creating local folder: E:\Tools\bea\user_projects\applications\FuegoPort
lets\FuegoPortlets\WEB-INF\lib\system\Schema_33871921843248051\catalogs
[<D> 0126 10:15:25.465] Main <Exe...ogic.kernel.System>: Loading catalogs from
local folder: E:\Tools\bea\user_projects\applications\FuegoPortlets\FuegoPortlet
s\WEB-INF\lib\system\Schema_33871921843248051\catalogs
[<D> 0126 10:15:25.475] Main <Exe...ogic.kernel.System>: 0 jars found locally.
[<D> 0126 10:15:25.505] Main <Exe...ogic.kernel.System>: [CatalogLoaderMgr] Reg
istering Catalog Mgr [Fuego Inc./2005-06-13 11:13:30-05] => fuego.util.LocalCata
logManagerC3d0d8d
[<D> 0126 10:15:25.505] Main <Exe...ogic.kernel.System>: [CatalogLoaderMgr] Cat
alog Mgr [Fuego Inc./2005-06-13 11:13:30-05] REGISTERED!
**** --> service a ser seteado: Process Service <Serving at directory: oracle:/
/gandalf:1521/schema=ORACLE_FDI_55,sid=GANDALF, working folder: E:\Tools\bea\use
r_projects\applications\FuegoPortlets\FuegoPortlets\WEB-INF\lib\system\Schema_3
3871921843248051, current sessions: 0>
**** --> directoryId a ser seteado: default
Ok
Initializing XObjects ...Ok
Initializing temporal folders...
Attachments dir -->E:\Tools\bea\user_projects\applications\FuegoPortlets\worksh
op\output\FuegoPortlets\tmp\attachment
Upload temp dir -->E:\Tools\bea\user_projects\applications\FuegoPortlets\worksh
op\output\FuegoPortlets\tmp\upload
Ok
***** Web Work Portal was initialized successfully *****
```

## 5. Testing the Imported Portlets

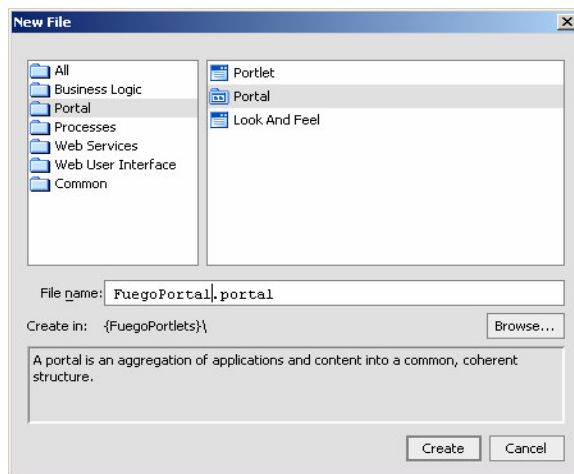
The following section will just illustrate one of the ways in which the FuegoBPM Portlets can be embedded within a Portal Application. The following example will create a brand new Portal Application containing a placeholder for end users to access business process instances through a Portlet window. The mechanics in this example can be used as a guideline for embedding the FuegoBPM Portlets in the context of a broader Portal Application.

In order to test the newly created Portal, we will need to create a new Portal Page. To achieve this, follow these steps in the BEA Workshop IDE:

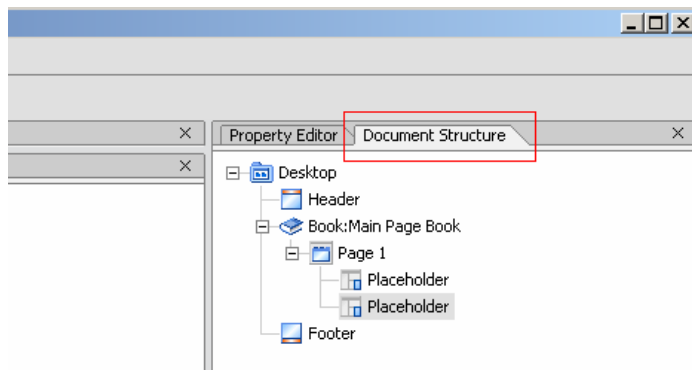
1. Select the recently added entry "FuegoPortlets" and right click on it selecting the following menu path as shown in the figure below.



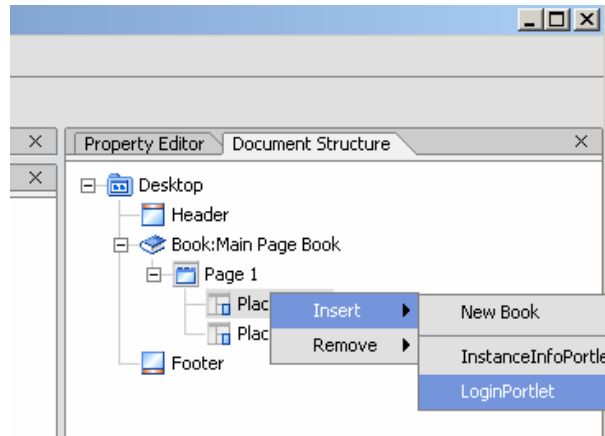
2. Provide a name to the new Portal Application as shown in the figure below and click on the “Create” button.



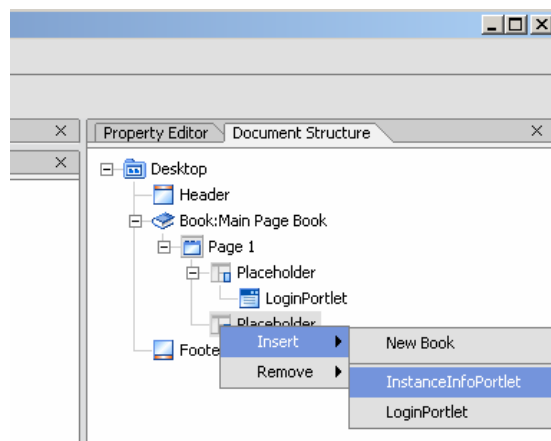
3. After the Portal Application was successfully created, click on the “Document Structure” tab on the upper right hand side of the BEA Workshop IDE as shown in the figure below.



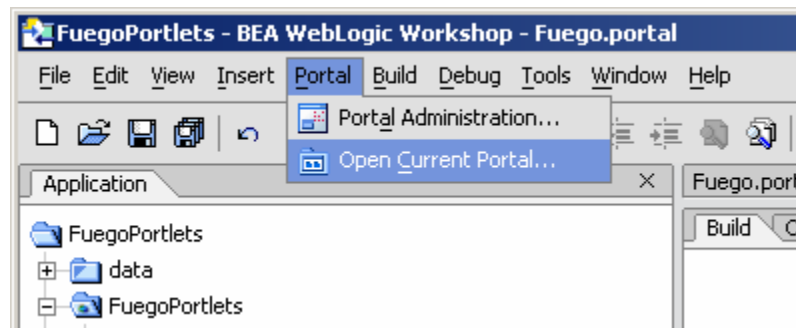
- Right click on the first “Placeholder” entry and select the following path through the opened menu: “Insert” → “LoginPortlet”.



- Right click on the second “Placeholder” entry and select the following path through the opened menu: “Insert” → “InstanceInfoPortlet”.

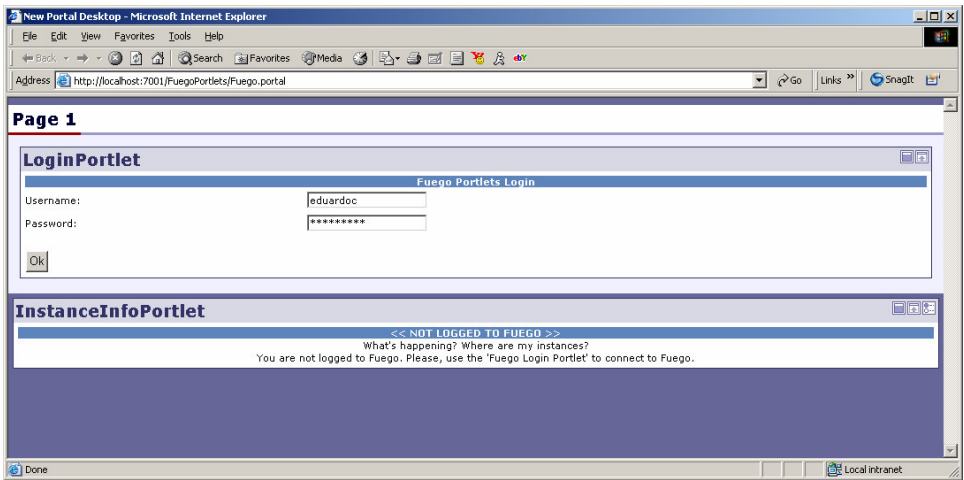


- To test the created Portal Application, Save the Project and go through the following menu path: “Portal” → “Open Current Portal”.



- A new browser window will be opened, displaying a page similar to the one shown below. Enter your user and password to log into the Fuego Portlet

Application that will render the list of instances pending for execution for the user that has just logged in.



8. Once logged in, the end user will be able to access any view (Inbox, Applications, etc.) and start interacting with deployed business processes. The figure below shows how the instance list for the Inbox view renders in the Portal Window.

