



AquaLogic BPM Enterprise 5.7 Installation Instructions for WebLogic 9.2

Document History

Date	Author	Changes	Version
March 15, 2007	Dan Atwood	Initial version created from an earlier ALBPM 5.5 document written by Eduardo Chioconni	1.0
March 30, 2007	Dan Atwood	Added recommendation to use tablespaces when creating the Directory Service and Engine for production systems. Added prerequisite to have installed WebLogic 9.2 MP1 to avoid an error during installation of the deployer.	1.1
June 13, 2007	Dan Atwood	Removed "Confidential" footer	1.2

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Introduction

This describes the steps to install and configure AquaLogic BPM Enterprise 5.7 for BEA WebLogic Server 9.2.

Prerequisites

This assumes that you have administrative privileges (ability to install software) on the machine and that you (or a DBA standing next to you) has been granted database privileges to create a database, create a user, and has create, alter, delete, update and select authority on tables. Before beginning, please ensure that you have a current XA version of your database's JDBC driver. For Oracle 9i and 10i, use the JDBC driver located in {WebLogic 9.2 installation directory}\server\ext\jdbc\oracle\10g\ojdbc14.jar.

If you are using WebLogic 9.2, ensure that MP1 has been applied.

Assumptions

It is assumed that your machine has a minimum of 1 GB hard drive space and 1 GB memory for the installation of ALBPM Enterprise.

Installing WebLogic 9.2

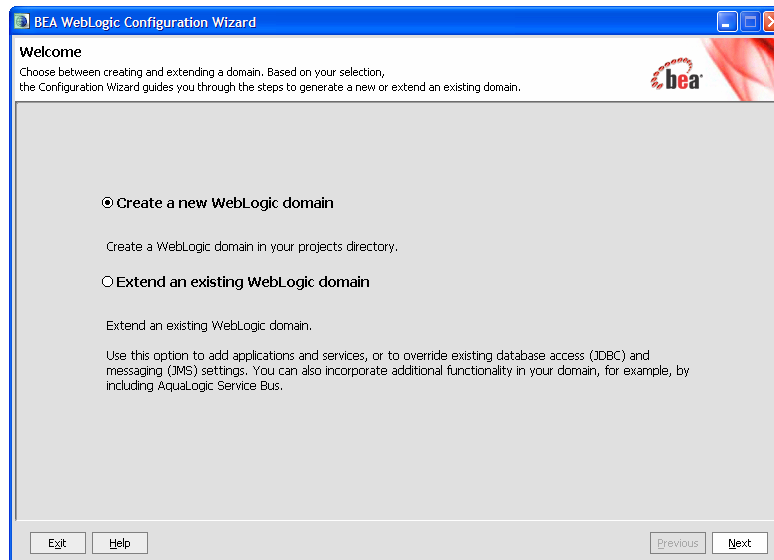
Download WebLogic 9.2 from

http://commerce.bea.com/products/weblogicplatform/weblogic_prod_fam.jsp.

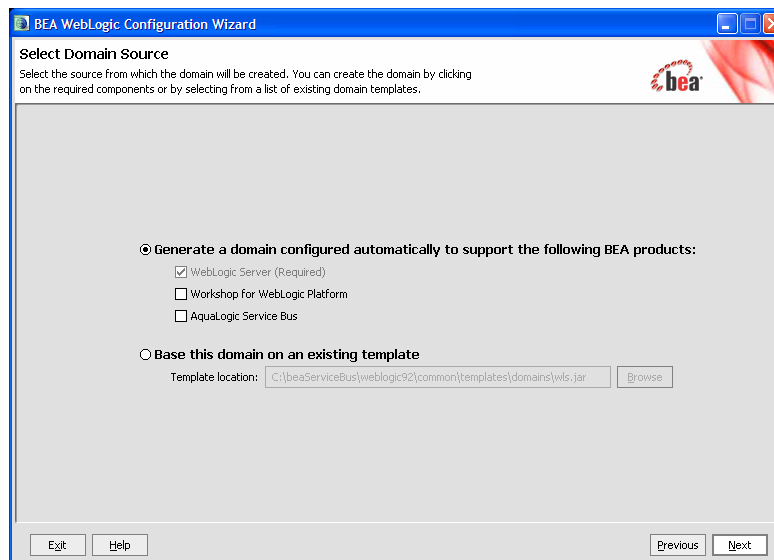
The installation is simple – take the defaults throughout the installation. At the end, uncheck the “Run Quickstart” checkbox.

Create a New WebLogic Domain

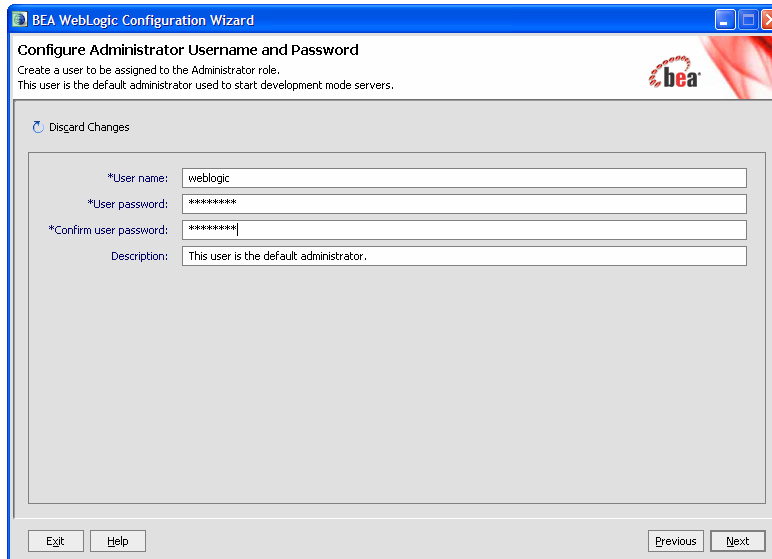
Create a new Domain using WebLogic’s configuration program (**Start ⇒ Programs ⇒ BEA Products ⇒ Tools ⇒ Configuration Wizard**).



Click **Next**.



Click **Next**.



BEA WebLogic Configuration Wizard

Configure Administrator Username and Password
Create a user to be assigned to the Administrator role.
This user is the default administrator used to start development mode servers.

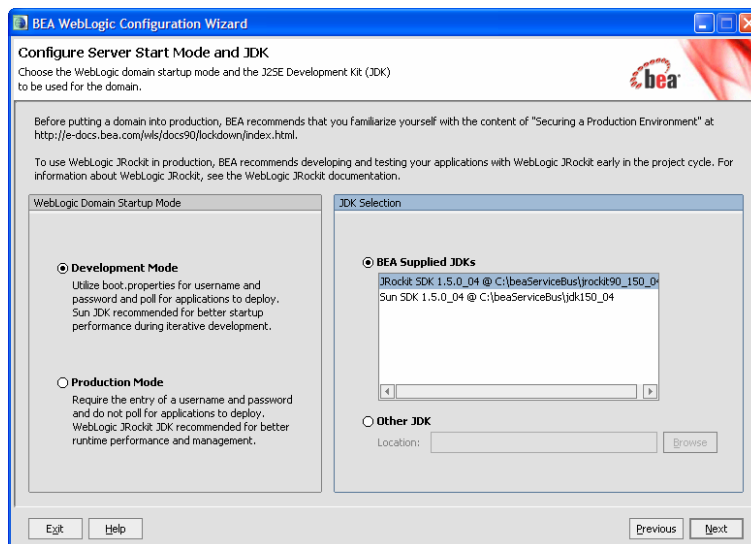
*User name:

*User password:

*Confirm user password:

Description:

Enter a password for the domain (typically “weblogic” for a development environment) and click **Next**.



BEA WebLogic Configuration Wizard

Configure Server Start Mode and JDK
Choose the WebLogic domain startup mode and the J2SE Development Kit (JDK) to be used for the domain.

Before putting a domain into production, BEA recommends that you familiarize yourself with the content of “Securing a Production Environment” at <http://e-docs.bea.com/wls/docs90/lockdown/index.html>.

To use WebLogic JRockit in production, BEA recommends developing and testing your applications with WebLogic JRockit early in the project cycle. For information about WebLogic JRockit, see the WebLogic JRockit documentation.

WebLogic Domain Startup Mode

☒ **Development Mode**
Utilize boot.properties for username and password and poll for applications to deploy.
Sun JDK recommended for better startup performance during iterative development.

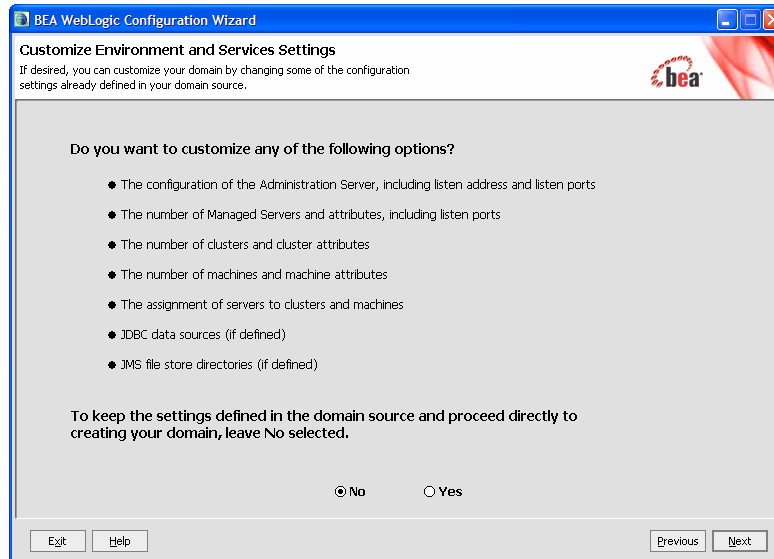
☐ **Production Mode**
Require the entry of a username and password and do not poll for applications to deploy.
WebLogic JRockit JDK recommended for better runtime performance and management.

JDK Selection

☒ **BEA Supplied JDKs**

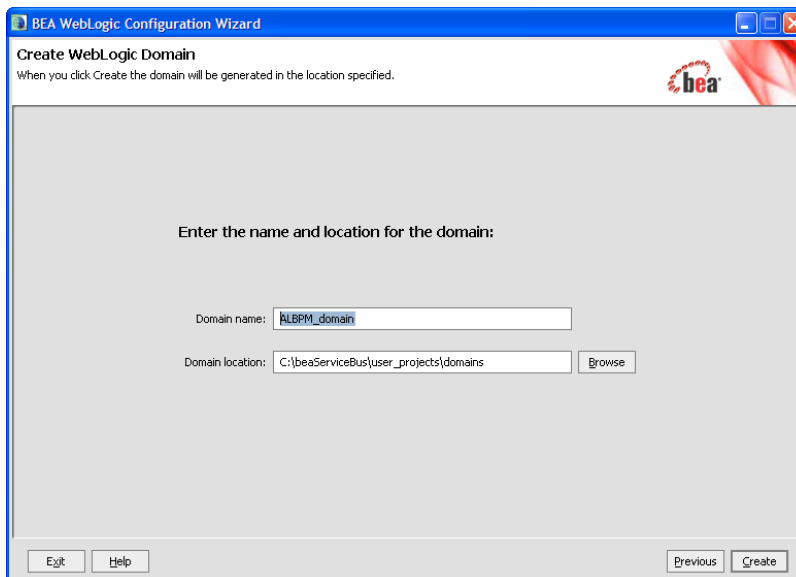
- JRockit SDK 1.5.0_04 @ C:\beaServiceBus\jrockit90_150_04
- Sun SDK 1.5.0_04 @ C:\beaServiceBus\jdk150_04

Select a valid JDK on the right and click **Next**.



Click **Next**.

As shown below, change the name of the domain ("ALBPM_domain" in this example) and click **Create**.



Start the new WebLogic Domain

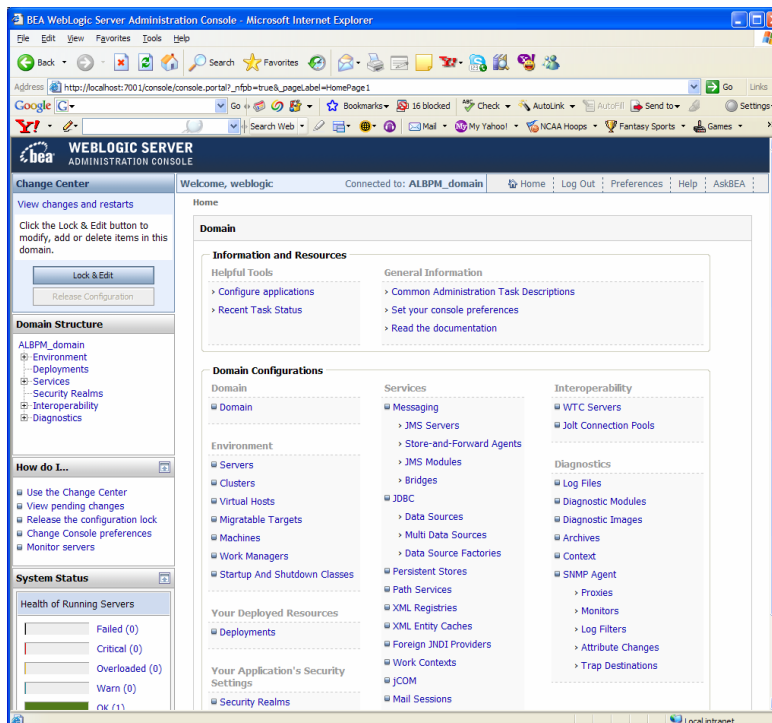
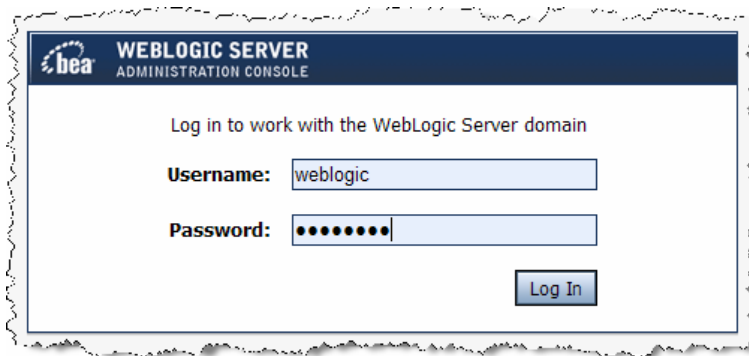
Start the domain you just created by clicking **Start** ⇒ **Programs** ⇒ **BEA Products** ⇒ **User Projects** ⇒ **ALBPM_domain** {the name of the domain you created} ⇒ **Start Admin Server for WebLogic Admin Domain**.

```

Start Admin Server for Weblogic Server Domain - C:\beaServiceBus\user_projects\domains\...
<Mar 14, 2007 1:29:22 PM CST> <Notice> <WebLogicServer> <BEA-000365> <Server sta
te changed to STARTING>
<Mar 14, 2007 1:29:37 PM CST> <Notice> <Log Management> <BEA-170027> <The server
initialized the domain log broadcaster successfully. Log messages will now be b
roadcasted to the domain log.>
<Mar 14, 2007 1:29:38 PM CST> <Notice> <WebLogicServer> <BEA-000365> <Server sta
te changed to ADMIN>
<Mar 14, 2007 1:29:38 PM CST> <Notice> <WebLogicServer> <BEA-000365> <Server sta
te changed to RESUMING>
<Mar 14, 2007 1:29:40 PM CST> <Notice> <Server> <BEA-002613> <Channel "Default[1
]" is now listening on 10.36.15.236:7001 for protocols iio, t3, ldap, http.>
<Mar 14, 2007 1:29:40 PM CST> <Notice> <Server> <BEA-002613> <Channel "Default[2
]" is now listening on 127.0.0.1:7001 for protocols iio, t3, ldap, http.>
<Mar 14, 2007 1:29:40 PM CST> <Notice> <Server> <BEA-002613> <Channel "Default"
is now listening on 10.36.15.239:7001 for protocols iio, t3, ldap, http.>
<Mar 14, 2007 1:29:40 PM CST> <Notice> <WebLogicServer> <BEA-000331> <Started We
bLogic Admin Server "AdminServer" for domain "ALBPM_domain" running in Developme
nt Mode>
<Mar 14, 2007 1:29:40 PM CST> <Warning> <Server> <BEA-002611> <Hostname "DAIWOOD
01.amer.bea.com", maps to multiple IP addresses: 10.36.15.239, 10.36.15.236>
<Mar 14, 2007 1:29:40 PM CST> <Notice> <WebLogicServer> <BEA-000365> <Server sta
te changed to RUNNING>
<Mar 14, 2007 1:29:40 PM CST> <Notice> <WebLogicServer> <BEA-000360> <Server sta
rted in RUNNING mode>
    
```

Once the domain has been started, you log into the WebLogic Administration console for this domain using the URL **http://{your machine name}:7001/console**.

Log in using the user/password **weblogic/weblogic**.



Install ALBPM 5.7 Enterprise for WebLogic

Download ALBPM 5.7 Enterprise for WebLogic

Download ALBPM 5.7 Enterprise for WebLogic from
http://commerce.bea.com/products/aqualogic/aqualogic_prod_fam.jsp.

Click **AquaLogic BPM** ⇒ **AquaLogic BPM Enterprise Server 5.7 SP# - BEA WebLogic**

Install ALBPM 5.7 Enterprise for WebLogic

Install the downloaded executable file – take the default settings throughout the installation.

Configure the Directory Service

After ALBPM 5.7 Enterprise for BEA Web Logic has been successfully installed, configure the environment to run an ALBPM Engine.

The ALBPM Engine for WebLogic relies on a Directory Service to:

- Create and enforce the role assignment security for participants and
- Act as a central repository for ALBPM metadata

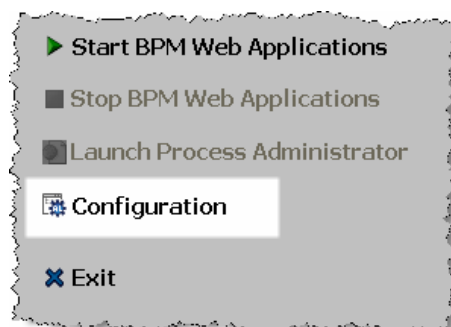
You will first create a Directory Service. In this document, the Directory Service will be created using Oracle. Similar steps can be followed when creating it for another database or LDAP

Create ALBPM Directory Service

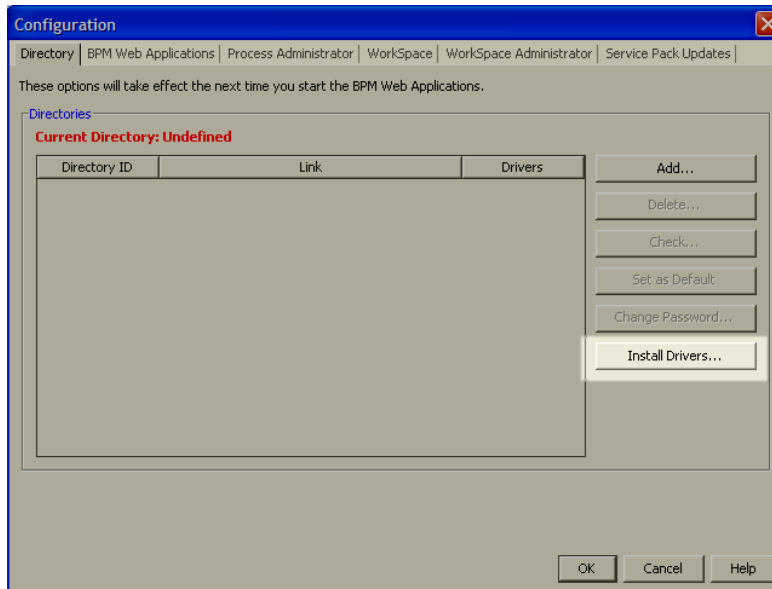
ALBPM Enterprise 5.7 provides the Admin Center desktop application for creating the Directory Service.

Start this application now by clicking **Start** ⇒ **Programs** ⇒ **Enterprise for J2EE 5.7** ⇒ **Admin Center (for WebLogic)**.

Click the **Configuration** option at the bottom of the Panel.



In this example, the Directory Service will be deployed on Oracle. The appropriate JDBC Driver needs to first be installed (ojdbc14.jar). Click the **Install Drivers...** button as shown below.

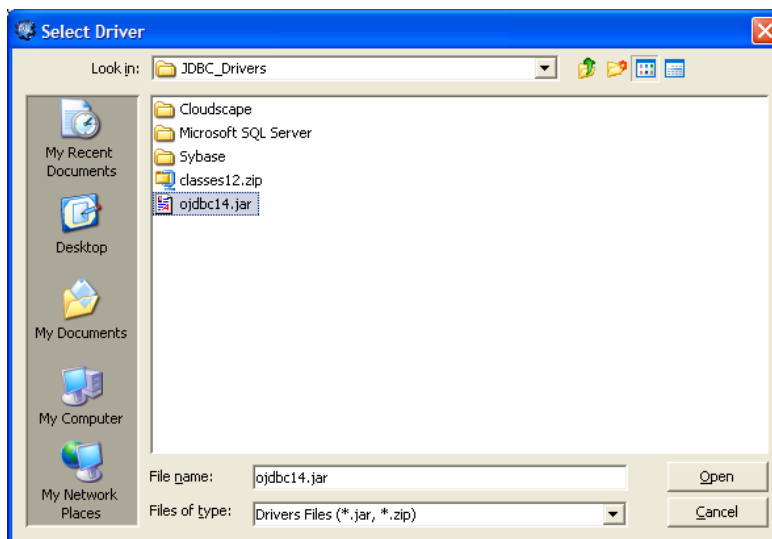


For Oracle 9i and 10i, use the JDBC driver located in:

{WebLogic 9.2 installation directory}\server\ext\jdbc\oracle\10g\ojdbc14.jar

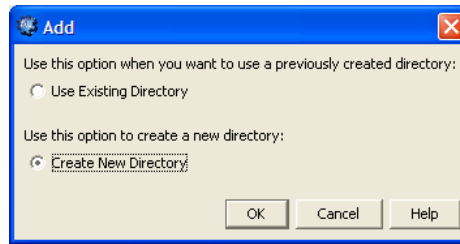
It is critical that you use a valid XA compliant JDBC driver in this step. The directory service typically installs correctly, but in a later step (when you attempt to save the ALBPM Engine configuration) you will be unsuccessful.

Open the JDBC Driver jar file on your machine.



Click the **Add...** button on the "Directory" tab.

Since this will be a new Directory Service, select the **Create New Directory** radio button option and click **OK**.



As shown in the dialog below, select **Oracle JDBC** from the "Provider" dropdown (do not click the Start button yet).

 A larger dialog box titled "Create a new directory" with a close button (X) in the top right corner. On the left is a graphic with the text "Directory Service". The main area has a "Basic" tab selected. Fields include: "Directory ID" (text box with "BEA_FDI"), "Provider" (dropdown menu with "Oracle JDBC" selected), "Create SQL Script" (checkbox, unchecked), "Database Host" (text box with "localhost"), "Database Port" (text box with "1521"), "Organization Logical Name" (text box with "XYZ Company"), "Administrator User" (text box with "system"), "Administrator Password" (password field with "*****"), "Schema Name" (text box with "BEA_FDI"), "Schema Password" (password field with "*****"), "Confirm Password" (password field with "*****"), "SID" (text box with "orabea2"), "Specify JDBC URL" (checkbox, unchecked), and "JDBC URL" (text box). At the bottom right are "Start" and "Cancel" buttons.

Here is an explanation for each field on the dialog that needs to be filled in.

Directory Id: This is the logical name for the Directory Service. It can be any name.

Provider: Since Oracle is the target for the Directory Service, "Oracle JDBC" should be selected from the dropdown.

Create SQL Script: Checked if the Administrator wants to have the DBA execute the SQL script to create the Directory Service database outside of the ALBPM Admin Center (in this case, leave this unchecked).

Database host: This is the machine where the Oracle RDBMS is deployed.

Database port: Oracle JDBC Driver connects with Oracle RDBMS using TCP/IP protocol. The TCP/IP port number used by the Oracle RDBMS to receive incoming calls should be provided in this field. 1521 is the default TCP/IP port for Oracle RDBMS.

Organization logical name: This is the logical name of the Organization being created with this Directory Service. This can be any literal. Make it something meaningful. It is usually the name of the company that has purchased ALBPM.

Administrator user: This is Oracle Administrator user. This is a user with sufficient privileges to create a database, create a user, and create and alter tables that the Directory Service will use.

Administrator password: This is the password for the Administrator user specified in the previous field.

Schema Name: This is the Oracle user that will host the Directory Service tables. Make this the same name as the Directory Id.

Schema Password: This is the password for the Schema Name specified in the previous field.

Confirm Password: This is the same value provided in the "Schema Password" field. It is just for consistency when providing passwords since its value is not shown to the Administrator entering the password.

SID: Enter the Oracle System Identifier (SID) that refers to this instance of Oracle.

Click the **Advanced** tab.

The screenshot shows a configuration window with a 'Provider' dropdown set to 'Oracle JDBC'. Below it are two tabs: 'Basic' and 'Advanced', with 'Advanced' selected. The 'Advanced' tab contains several input fields: 'Administrator ID' with the value 'root', 'Administrator Password' and 'Confirm Password' both masked with '*****', and three empty fields for 'Tablespace', 'Temporary Tablespace', and 'Profile'.

The values in this tab define the Directory Service Administrator's login information:

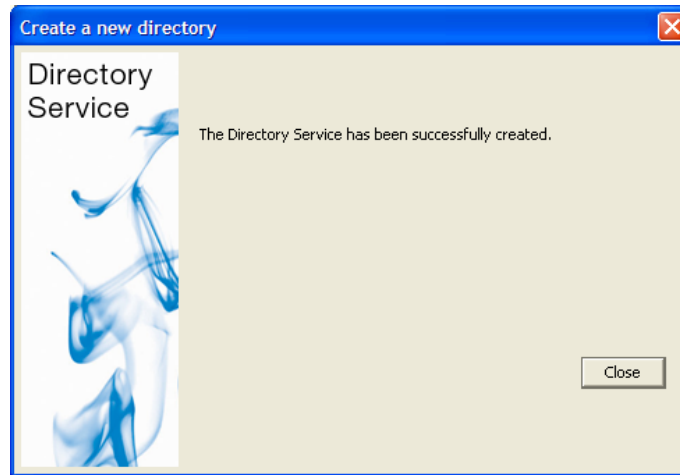
Administrator ID: This is the id that will be used to log into the ALBPM Process Administrator. The Process Administrator is a web based tool used to administer and manage ALBPM Servers, participant authorization and publishing and deploying projects (typically "root" for development).

Administrator password: This is the password to be linked to the Administrator's id (typically "password" for development).

Confirm password: This is the same value provided in the "Administrator Password" field.

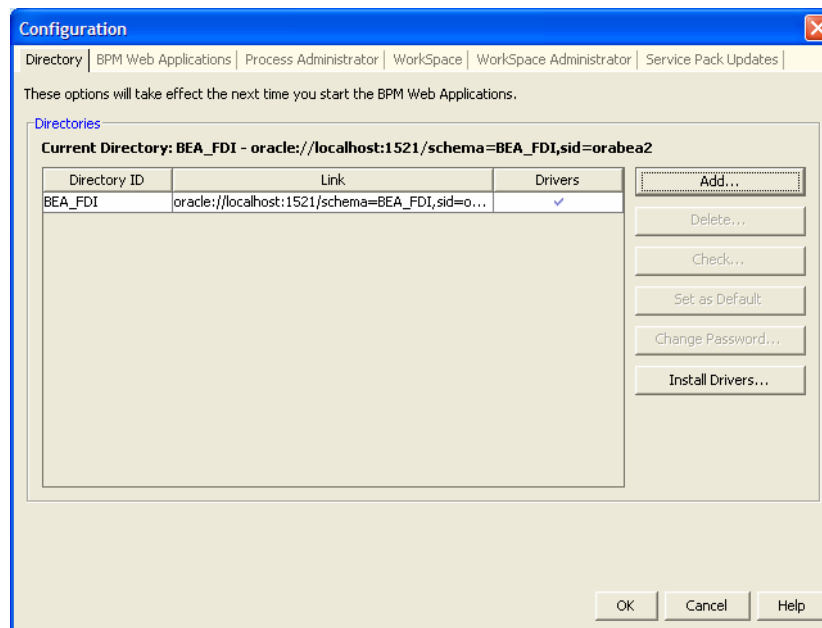
For production systems, it is strongly recommended that you use a tablespace (bottom three fields in the above window), and that the tablespace used is different than the one you will use later when creating the engine's.

Click the **Start** button to create the Directory Service. After a successful Directory Service creation, the following will be displayed.



Click on the "Close" button to finish the Directory Service creation.

As shown below, the new Directory Service will be displayed as a new entry in the list of Directories.

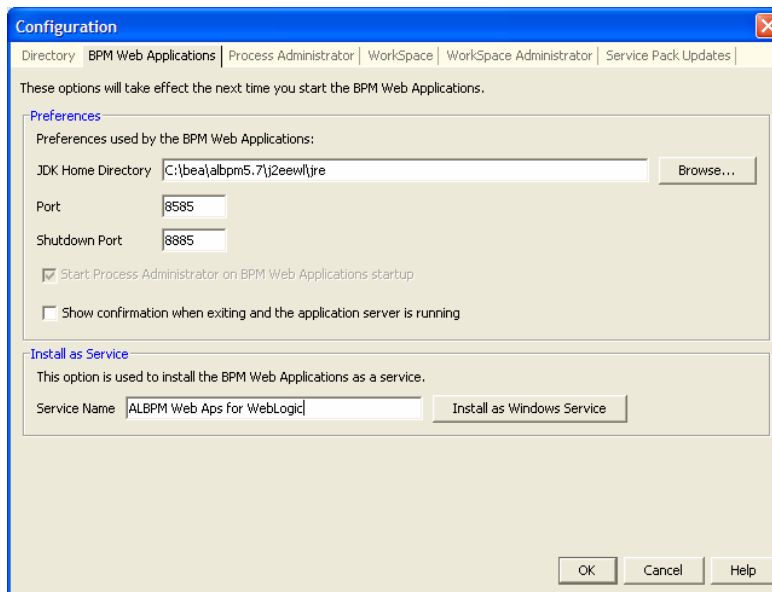
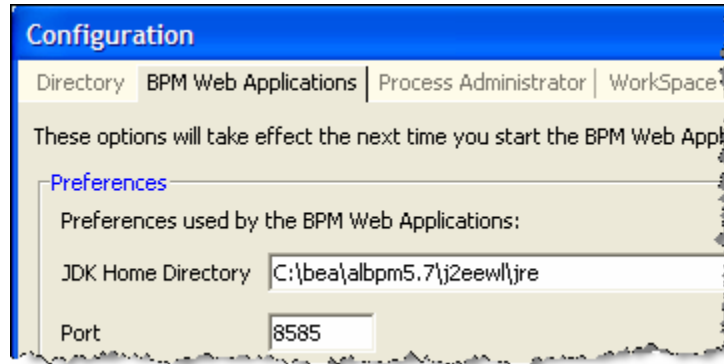


Configure the Web Application Server

After successfully creating the Directory Service, install the Admin Service as a Windows Service. The Admin Service starts a Tomcat Web Server with the Process Administrator

deployed on it. Installing it as a Windows Service ensures that the Process Administrator is automatically initialized.

To install the Process Administrator as a Windows Service, click the **BPM Web Applications** tab.



This panel defines the Process Administrator configuration parameters

JDK home directory: This is the absolute path to a 1.5 JVM. By default, it points to the one installed with ALBPM

Port: This is the port used by the Process Administrator embedded Tomcat. 8585 is the default port used by ALBPM.

Shutdown port: This is the port used internally to stop the Web Console embedded Tomcat. 8885 is the default port used by Fuego.

Show confirmation when exiting and the application server is running:

This checkbox should be unchecked so that a warning is not displayed when exiting this application.

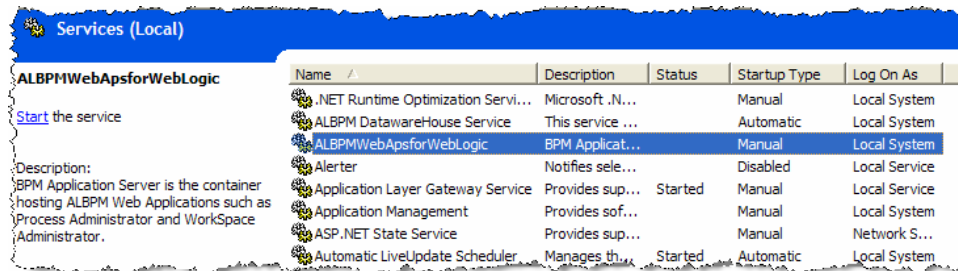
Service Name: This is the name of the Windows Service that will be created. It is a good idea to enter a name different than the default. Enter **ALBPM Web Aps for WebLogic** in this field.

Click the **Install as Windows Service** button, once the configuration for the Process Administrator has been defined. If successfully installed, the Service Name field should be grayed out.

Unless specific configuration for logging is required, it is not necessary to go through the other Tabs in the Configuration Panel.

Click **OK** on the “BPM Web Applications” tab to finish the Process Administrator configuration.

You should now see “ALBPMWebApsforWebLogic” in the list of services.

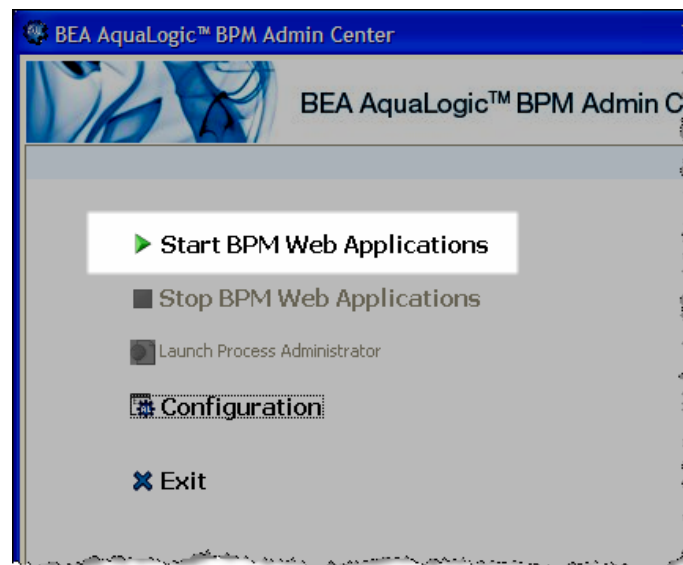


Start the Windows Service

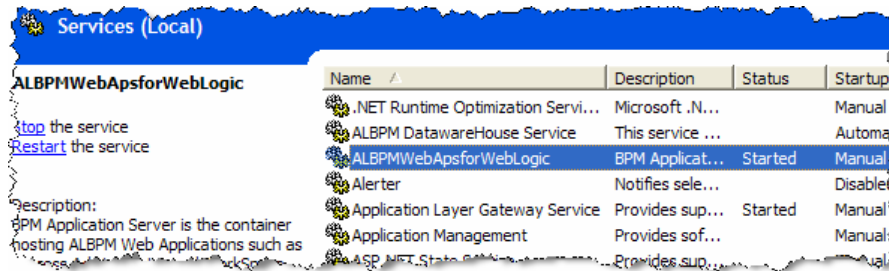
Once the Process Administrator has been configured, start the new Windows service.

This can be done either:

1. By starting it from ALBPM Admin Center application



2. or simply by starting the previously created Windows service.



If the Process Administrator Service is started from Admin Center application, the Windows Service will be automatically started.

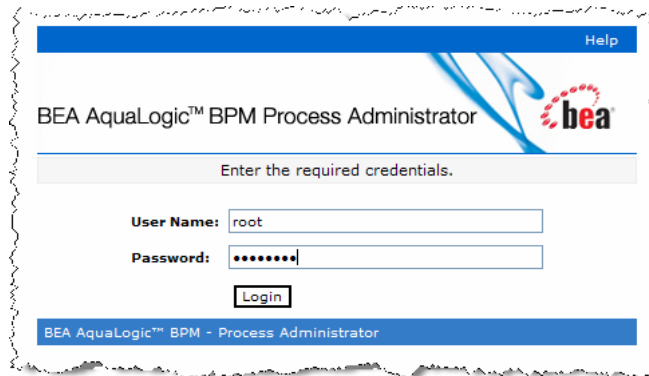
Consider having the service start automatically so the Process Administrator can more easily be started after booting your machine up.

Manually starting the Process Administrator from the Admin Center is recommended only in test environments because the application will stop if you close Admin Center. For production installations, either a Windows service or start/stop shell scripts used.

Configure an ALBPM Engine

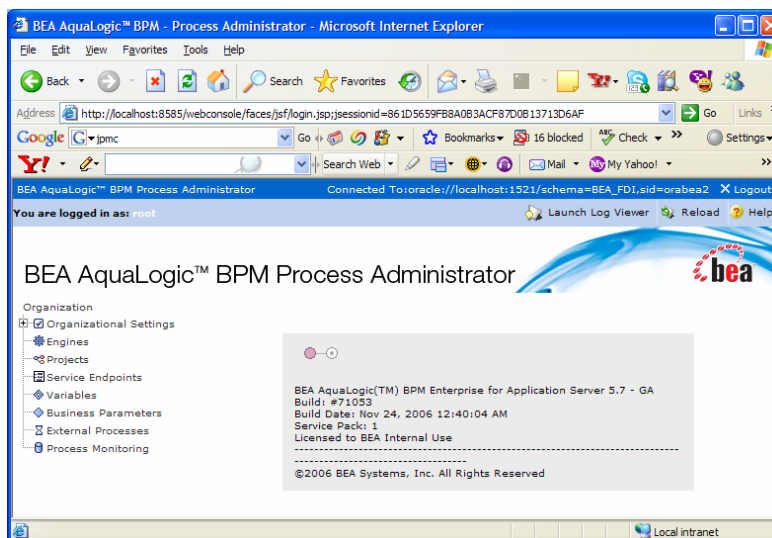
The next step is to configure the ALBPM Engine. This is done using the web Process Administrator tool you configured in the last section of this document.

Start this now using the URL <http://host:port/webconsole>, where host is the machine on which the Process Administrator Service was installed and port is the TCP/IP port configured for it (typically 8585). In this example, you can start the Process Administrator by entering the URL **http://{your machine name}:8585/webconsole**.



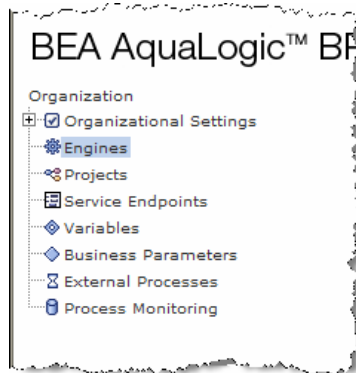
As shown above, to log into the Process Administrator enter the Administrators user ID provided when creating Directory Service in the last section of this document (usually **root** for development environments) and password (**password**).

Shown below is the web Process Administrator's panel.

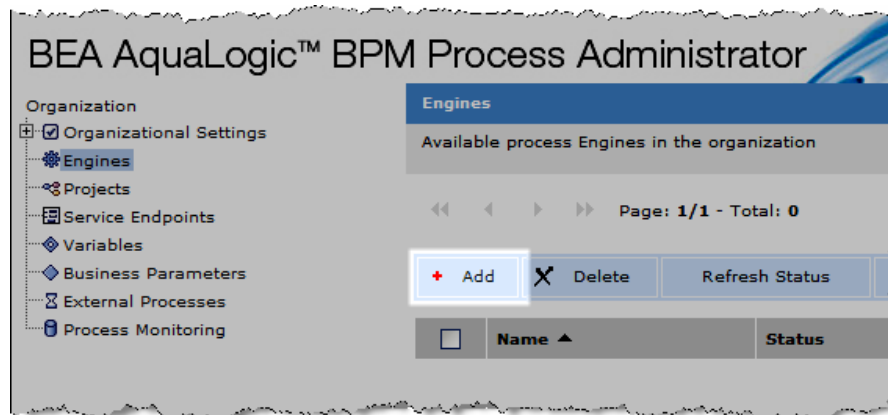


Create an Engine

Click on the **Engines** link on the left hand side panel to create a new Engine that will run on BEA Web Logic Application Server.



Click the **Add** button.



As shown below, name the new Engine. Select **weblogic** from the Engine Type dropdown and select **Oracle Database** from the Engine Database Type dropdown.

 A screenshot of a dialog box titled 'Engines > Choose a Engine type.'. It prompts the user to 'Enter the engine name, its type, and the database type'. The form contains three fields: 'Engine Name' with the value 'BEA_WL_Engine', 'Engine Type' with a dropdown menu showing 'weblogic' and a 'Cluster' checkbox, and 'Engine Database Type' with a dropdown menu showing 'Oracle Database'. At the bottom are 'Next', 'Cancel', and 'Reset' buttons.

Click **Next** to continue.

Since Oracle was selected, the fields below are shown. Different fields will be presented if another database is selected.

Host: Machine name where the Oracle RDBMS is deployed.

Port: TCP/IP port where the Oracle RDBMS is waiting for incoming connections. For Oracle, this port is usually 1521.

SID: This is the Oracle System Identifier (SID) for the instance of Oracle where the Engine Tables will reside.

User: This is the Oracle User in the selected SID that will host the Engine tables. Make this name the same as the Engine's name.

Password: This is the password for the User specified in the previous field.

Schema: It is a convention to use the same value as specified for the User field.

Engines > Choose a Engine type. > Edit Service Endpoint Engine 'BEA_WL_Engine' database configuration

Edit the service endpoint information. The required data depends on the service endpoint type and subtype.

Type	
Name	Engine 'BEA_WL_Engine' database configuration
Type	SQL Database
Subtype	Oracle Database

Properties	
Host	localhost
Port	1521
SID	orabea2
User	BEA_WL_Engine
Password	*****
Confirm Password	*****
Schema	BEA_WL_Engine
Driver Type	thin
<input type="checkbox"/> Database String	

Advanced	
Tablespace	
Temporary Tablespace	
Profile	

Next Cancel Reset

For production engines, it is strongly recommended that you use a tablespace ("Advanced" section of this window), and that the tablespace used is different than the one you used previously when creating the directory service database.

Click **Next**.

The next panel shows the names for BEA WebLogic resources used internally by the ALBPM Engine once it is deployed on Web Logic. These resources may be modified if the BEA Administrator has different naming conventions.

Instructions how to create these resources on the WebLogic server will be provided in the next section of this document.

Basic Configuration	Log	Execution	Services	Networking	Others	Application Server
Summary of the configuration needed in your weblogic application Engine						
Engine Runtime Datasource Lookup Name	XABEA_WL_EngineDS					
Engine DI Datasource Lookup Name	XAFDIDS					
JMS Queue Name	queue/ToDoQueue					
JMS Queue Connection Factory	XAConnectionFactory					
JMS Queue authentication	<input type="checkbox"/> Enable					
JMS Topic Name for Server synchronization information	topic/EngineNews					
JMS Topic Connection Factory	XATopicConnectionFactory					
JMS Topic authentication	<input type="checkbox"/> Enable					
<p>⚠ After changing any of these values, it is necessary to regenerate the EAR for this Engine in order to make them effective. Otherwise, the changes will not be taken into account.</p>						
BPM Application Deployer for WebLogic						
BPM Application Deployer URL	http://localhost:7001/fuego/deployer/servlet/worker					
WebLogic Server or Cluster Name						

Change the text in the "BPM Application Deployer URL" field. Ensure that the server's name is entered here.

BPM Application Deployer for WebLogic	
BPM Application Deployer URL	http://localhost:7001/fuego/deployer/servlet/worker

Enter the name of the default WebLogic Server **AdminServer**.

BPM Application Deployer URL	http://localhost:7001/fuego/deployer/servlet/worker
WebLogic Server or Cluster Name	AdminServer

All of the other fields can be left set to their default values.

Click **Next**.

Click **Save**.

Basic Configuration	Log	Execution	Services	Networking	Others	Application Server
Properties						
Name	BEA_WL_Engine					
Type	weblogic <input type="checkbox"/> Cluster					
Home Directory	C:\bea\alpbm5.7\j2ee\server\BEA_WL_Engine					
Log Directory	C:\bea\alpbm5.7\j2ee\log					
<input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Reset"/>						

Create the Engine's Database

This database will be used by the Engine to persist business process instance information.

As shown below, click **Manage Database**.

The screenshot shows a configuration window with the following fields and buttons:

- Type:** weblogic ☐ Cluster
- Home Directory:** C:\bea\albp5.7\j2ee\server\BEA
- Log Directory:** C:\bea\albp5.7\j2ee\log
- Buttons:** Save, Cancel, Reset
- Advanced Properties:**
 - [Edit Engine Database Configuration](#) (highlighted)
 - [Manage Database](#) (highlighted)
 - [J2EE Application Server Files \(EARs, WARs\)](#)
 - [Log Viewer](#)
 - [Export](#)

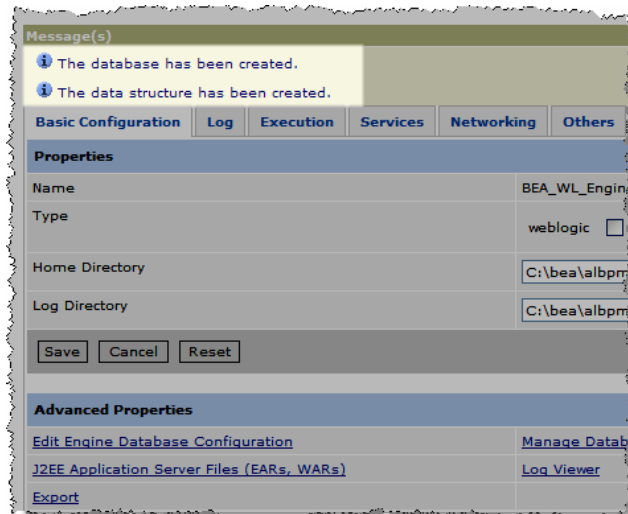
Check the **Create database** and **Create data structure**. A DBA with database, user and table creation authorization needs to enter their user name and password.

The screenshot shows the 'Manage Database' dialog box with the following options and fields:

- Database Creation:**
 - Drop the database. ☐
 - Create the database. ☒
 - Create the data structure. ☒
- User Name:** system
- User Password:** (masked with dots)
- Buttons:** OK, Cancel, Show SQL Statements

Click **OK** to create the Engine's database.

If successful, you should see these two messages indicating that database and tables for the Engine were created.



For production and QA environments, have your DBA should grant SELECT permission to the Oracle user used for the Engine ("BEA_WL_Engine" in this example) for these database views (the owner is "sys") for correct transaction management by BEA WebLogic:

```
DBA_2PC_PENDING
DBA_2PC_NEIGHBORS
DBA_PENDING_TRANSACTIONS
```

Configure Web Logic 9.2 Application Server

This section outlines how to create the J2EE Resources needed by the ALBPM Engine to be deployed in BEA WebLogic Application Server. The Engine will use existing services provided by the WebLogic Application Server for centralized resource administration. The JDBC Data Sources and Topics and Queues for the Engine's internal communication will be configured in this section.

It is important to note that if the WebLogic Application Server is running on a Unix environment, ensure that the **-Djava.awt.headless=true** property has been added to the startWebLogic.sh and startManagedWebLogic.sh scripts to ensure a correct startup of the ALBPM deployed J2EE Applications.

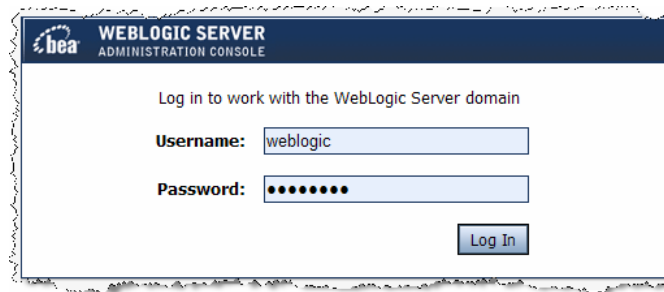
Create the ALBPM Directory Service Data Source

If it is not already started, start the WebLogic Server for the Domain you created earlier (**Start** ⇒ **Programs** ⇒ **BEA Products** ⇒ **User Projects** ⇒ **"ALBPM_domain"** (or the name of the domain you created) ⇒ **Start Admin Server for WebLogic Admin Domain.**

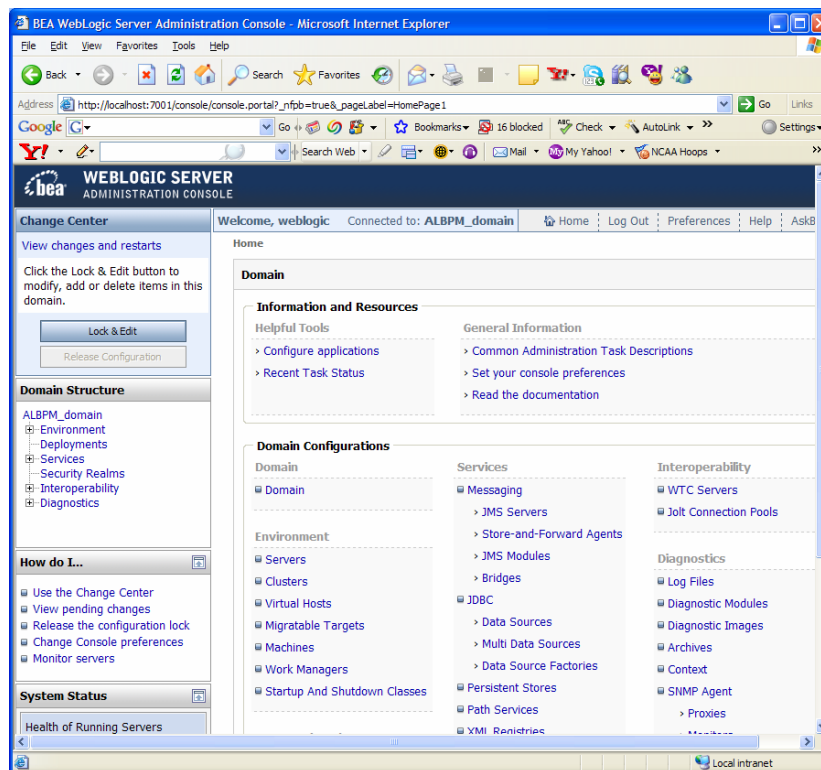
```

Start Admin Server for Weblogic Server Domain - C:\beaServiceBus\user_projects\domains\...
<Mar 15, 2007 4:27:31 PM CST> <Notice> <WebLogicServer> <BEA-000365> <Server sta
te changed to STARTING>
<Mar 15, 2007 4:27:51 PM CST> <Notice> <Log Management> <BEA-170027> <The server
initialized the domain log broadcaster successfully. Log messages will now be b
roadcasted to the domain log.>
<Mar 15, 2007 4:27:52 PM CST> <Notice> <WebLogicServer> <BEA-000365> <Server sta
te changed to ADMIN>
<Mar 15, 2007 4:27:52 PM CST> <Notice> <WebLogicServer> <BEA-000365> <Server sta
te changed to RESUMING>
<Mar 15, 2007 4:27:54 PM CST> <Notice> <Server> <BEA-002613> <Channel "Default[1
]" is now listening on 10.36.15.236:7001 for protocols iiop, t3, ldap, http.>
<Mar 15, 2007 4:27:54 PM CST> <Notice> <Server> <BEA-002613> <Channel "Default[2
]" is now listening on 127.0.0.1:7001 for protocols iiop, t3, ldap, http.>
<Mar 15, 2007 4:27:54 PM CST> <Notice> <Server> <BEA-002613> <Channel "Default"
is now listening on 10.36.15.239:7001 for protocols iiop, t3, ldap, http.>
<Mar 15, 2007 4:27:54 PM CST> <Notice> <WebLogicServer> <BEA-000331> <Started We
bLogic Admin Server "AdminServer" for domain "ALBPM_domain" running in Developme
nt Mode>
<Mar 15, 2007 4:27:54 PM CST> <Warning> <Server> <BEA-002611> <Hostname "DAIWOOD
01.amer.bea.com", maps to multiple IP addresses: 10.36.15.239, 10.36.15.236>
<Mar 15, 2007 4:27:54 PM CST> <Notice> <WebLogicServer> <BEA-000365> <Server sta
te changed to RUNNING>
<Mar 15, 2007 4:27:54 PM CST> <Notice> <WebLogicServer> <BEA-000360> <Server sta
ted in RUNNING mode>
    
```

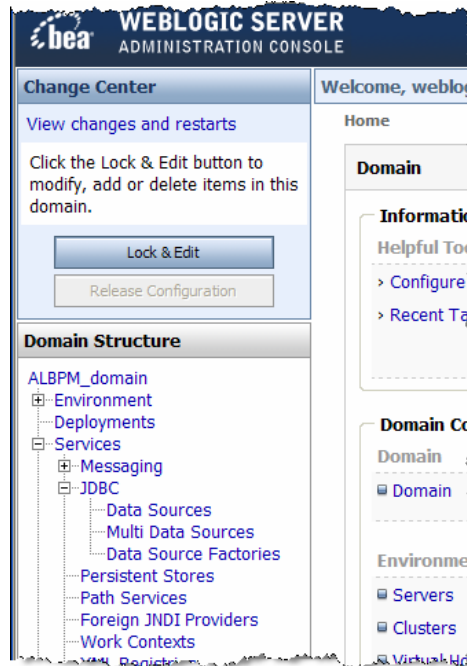
Once it has started, go to the URL **http://{your machine name}:7001/console** and log into the WebLogic Administration Console (user **weblogic**, password **weblogic**).



Once successfully logged in, the BEA Web Logic Server Configuration will be displayed.



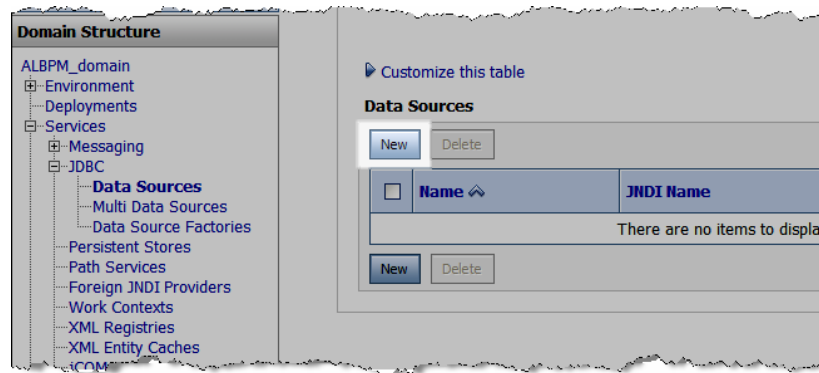
Create a JDBC Data Source for the ALBPM Directory Service database you created earlier. In the **Domain Structure** panel on the left, expand **Services** ⇒ expand **JDBC** ⇒ **Data Sources**.



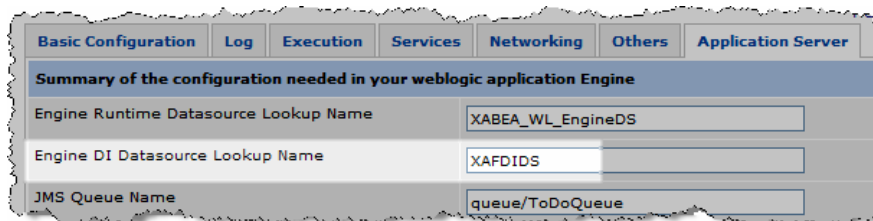
Click the **Lock & Edit** button so a new Data Source can be added.



Click the **New** button to add a new Data Source.



Recall earlier when configuring the ALBPM Engine in the ALBPM Process Administrator, the default Application Server settings were automatically set as shown below.



As a result of this, the JNDI name you will set will also be "XAFDIDS".

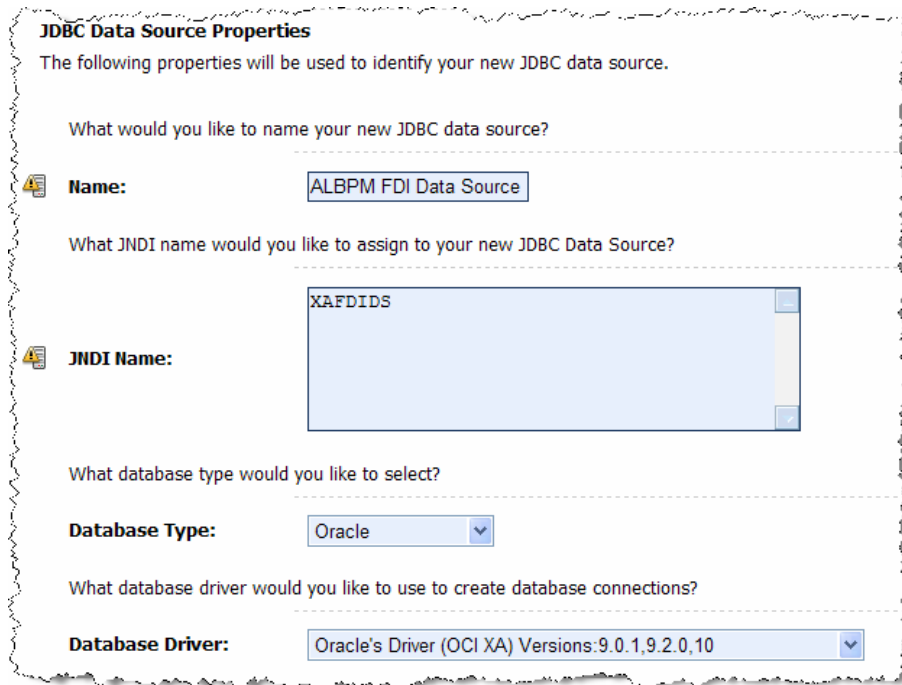
As shown below, since the ALBPM Directory Service is deployed on Oracle and ALBPM needs Oracle Thin XA driver, select:

Name: This is the logical name for ALBPM Directory Service data source (e.g. **ALBPM FDI Data Source**).

JNDI Name: Enter **XAFDIDS** (the ALBPM Process Administrator's Application Server setting)

Database Type: Oracle

Database Driver: Oracle's Driver (Thin XA) Version: 9.0.1, 9.2.0, 10.



JDBC Data Source Properties

The following properties will be used to identify your new JDBC data source.

What would you like to name your new JDBC data source?

Name: ALBPM FDI Data Source

What JNDI name would you like to assign to your new JDBC Data Source?

JNDI Name: XAFDIDS

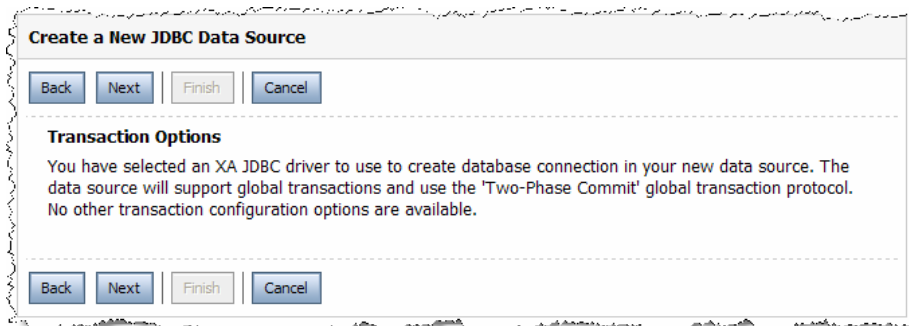
What database type would you like to select?

Database Type: Oracle

What database driver would you like to use to create database connections?

Database Driver: Oracle's Driver (OCI XA) Versions: 9.0.1, 9.2.0, 10

Click **Next**.



Create a New JDBC Data Source

Back Next Finish Cancel

Transaction Options

You have selected an XA JDBC driver to use to create database connection in your new data source. The data source will support global transactions and use the 'Two-Phase Commit' global transaction protocol. No other transaction configuration options are available.

Back Next Finish Cancel

Click **Next**.

Enter the information about the ALBPM Directory Service database you created earlier in the "Create ALBPM Directory Service" section of this document.

Database Name: (be careful here – this entry is not what you would think it is) this is the name of the Oracle SID where the ALBPM Directory Service Database was previously created in the "Create ALBPM Directory Service" section of this document.

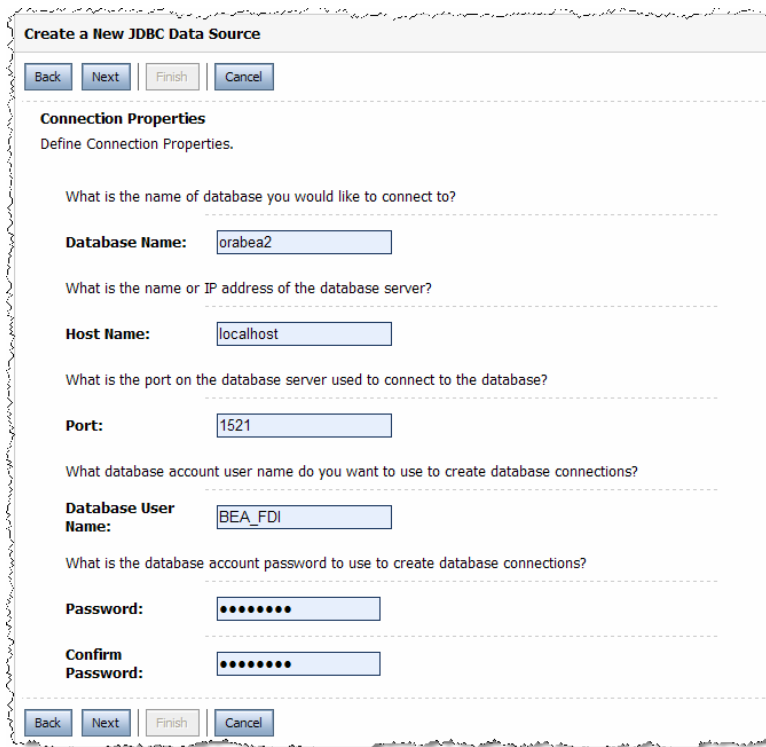
Host Name: This is the host where ALBPM Directory Service database is deployed

Port: This is the TCP/IP Port defined in the Oracle database for the incoming connection (typically 1521).

Database User Name: This is the same name you entered previously in the "Create ALBPM Directory Service" section of this document. This is the same name as the database you created. In this example, enter **BEA_FDI** so it is consistent with what you entered previously.

Password: This is the password for the Oracle user provided in database user name field (**password** in this example).

Confirm Password: Same value as provided for the "Password" field.



Create a New JDBC Data Source

Back Next Finish Cancel

Connection Properties
Define Connection Properties.

What is the name of database you would like to connect to?

Database Name: orabea2

What is the name or IP address of the database server?

Host Name: localhost

What is the port on the database server used to connect to the database?

Port: 1521

What database account user name do you want to use to create database connections?

Database User Name: BEA_FDI

What is the database account password to use to create database connections?

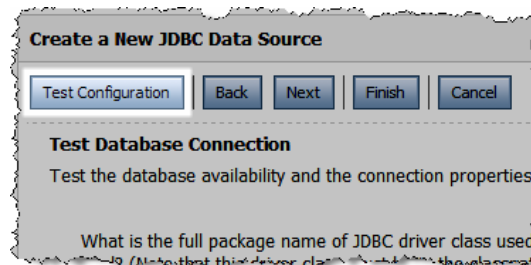
Password:

Confirm Password:

Back Next Finish Cancel

Click **Next**.

Test this configuration now by clicking the **Test Configuration** button.



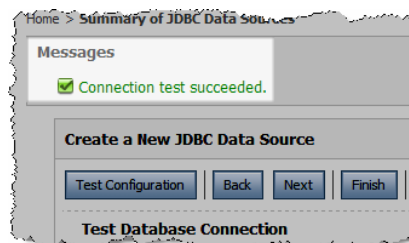
Create a New JDBC Data Source

Test Configuration Back Next Finish Cancel

Test Database Connection
Test the database availability and the connection properties.

What is the full package name of JDBC driver class used

If the test is successful, you will see the message shown below.



Home > Summary of JDBC Data Sources

Messages

✓ Connection test succeeded.

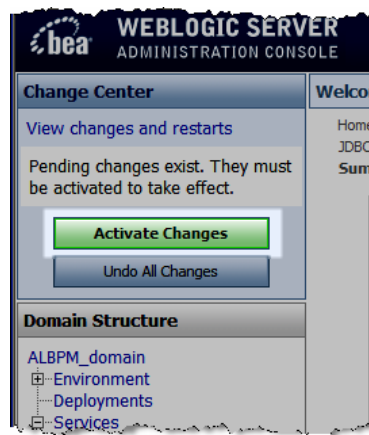
Create a New JDBC Data Source

Test Configuration Back Next Finish

Test Database Connection

If the test was successful, click the **Finish** button.

Click the **Activate Changes** button.



In the **Domain Structure** panel on the left, expand **Services** ⇒ expand **JDBC** ⇒ **Data Sources**.

Click the name of the Data Source you just created.



Click the **Targets** tab.

Click **Lock & Edit**.

Check the check box beside the AdminServer.

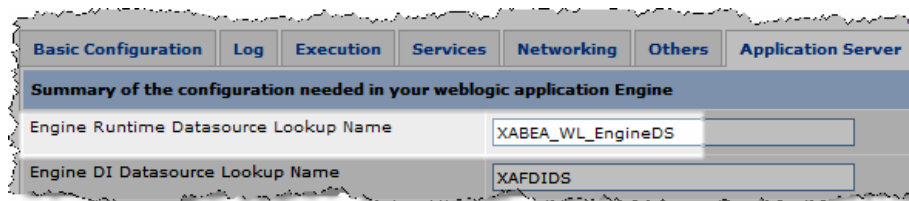


Click **Activate Changes**.

Create the ALBPM Engine Database Data Source

Repeat the steps you went through in the previous section to create a JDBC Data Source for the ALBPM Engine's database that you created earlier.

Recall earlier when configuring the ALBPM Engine in the ALBPM Process Administrator, the default Application Server settings were automatically set as shown below.



As a result of this, the JNDI name you will set will also be "XABEA_WL_EngineDS".

Name: This is the logical name for ALBPM Engine data source (e.g. **ALBPM Engine Database**).

JNDI Name: Enter **XABEA_WL_EngineDS** (the ALBPM Process Administrator's Application Server setting)

Database Type: Oracle

Database Driver: Oracle's Driver (Thin XA) Version: 9.0.1, 9.2.0, 10.

Create a New JDBC Data Source

Back Next Finish Cancel

JDBC Data Source Properties

The following properties will be used to identify your new JDBC data source.

What would you like to name your new JDBC data source?

Name: ALBPM Engine Database

What JNDI name would you like to assign to your new JDBC Data Source?

JNDI Name: XABEA_WL_EngineDS

What database type would you like to select?

Database Type: Oracle

What database driver would you like to use to create database connections?

Database Driver: *Oracle's Driver (Thin XA) Versions: 9.0.1, 9.2.0, 10

Recall that the Engine you created earlier was named "BEA_WL_Engine" and the user name for this engine was the same name.

Connection Properties
Define Connection Properties.

What is the name of database you would like to connect to?

Database Name:

What is the name or IP address of the database server?

Host Name:

What is the port on the database server used to connect to the database?

Port:

What database account user name do you want to use to create database connections?

Database User Name:

What is the database account password to use to create database connections?

Password:

Confirm Password:

Click the **Activate Changes** button.

In the **Domain Structure** panel on the left, expand **Services** ⇒ expand **JDBC** ⇒ **Data Sources**.

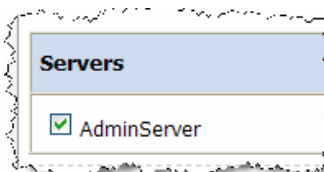
Click the name of the Data Source you just created.



Click the **Targets** tab.

Click **Lock & Edit**.

Check the check box beside the AdminServer.



Click **Activate Changes**.

Create JMS Topics and Queues

This section describes how to create topics and queues for the ALBPM Engine. ALBPM can use the embedded Web Logic messaging infrastructure, or can rely on a third party one (e.g. TIBCO EMS).

Topics and Queues for ALBPM Engine

The following steps describe how to add the necessary connection factories, topics and queues using WebLogic JMS infrastructure.

Create a New JMS Server

On the left menu panel, expand **Services** ⇒ expand **Messaging** ⇒ click **JMS Servers**.

Click the **Lock & Edit** button.

Click the **New** button in the right panel to create a new JMS Server.

Enter the logical name the JMS Server (enter **JMS Server**).

Create a New JMS Server

Back Next Finish Cancel

JMS Server Properties
The following properties will be used to identify your new JMS Server.

What would you like to name your new JMS Server?

Name: JMS Server

Specify persistent store for the new JMS Server.

Persistent Store: (none) Create a New Store

Leave the "Persistent Store" field set to **(none)**.

Click **Next**.

As shown below, select **AdminServer** from the dropdown.



Click **Finish**.

Click **Activate Changes**.

JMS Module Creation

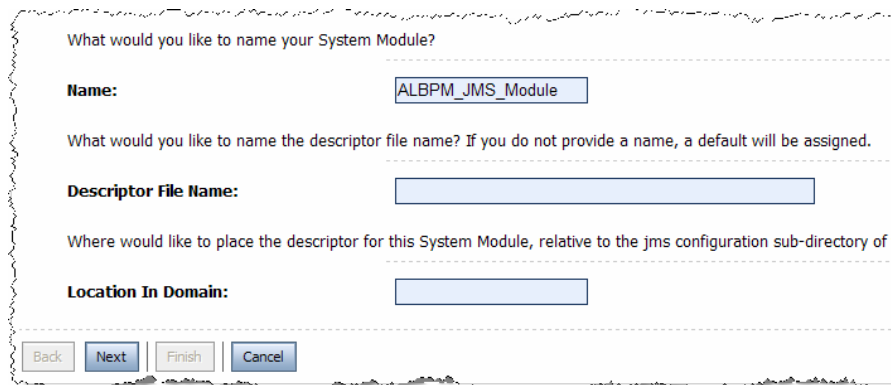
In the left panel, expand **Services** ⇒ expand **Messaging** ⇒ click **JMS Modules**.



Click **Lock & Edit**.

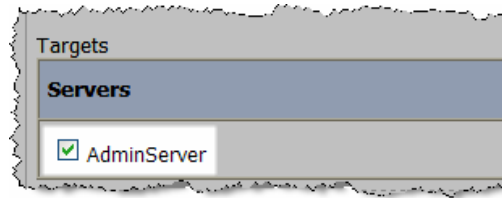
Click **New**.

Enter "**ALBPM_JMS_Module**" in both the Name field. Leave the "Descriptor..." and "Location..." fields blank.

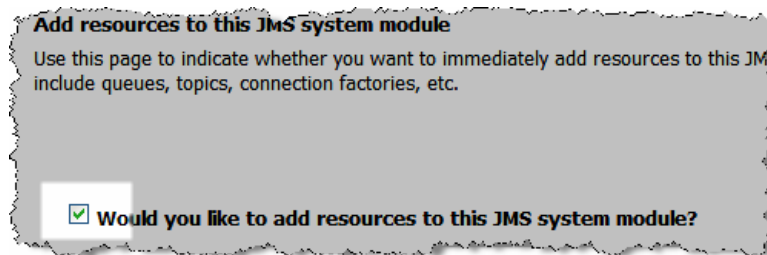


Click **Next**.

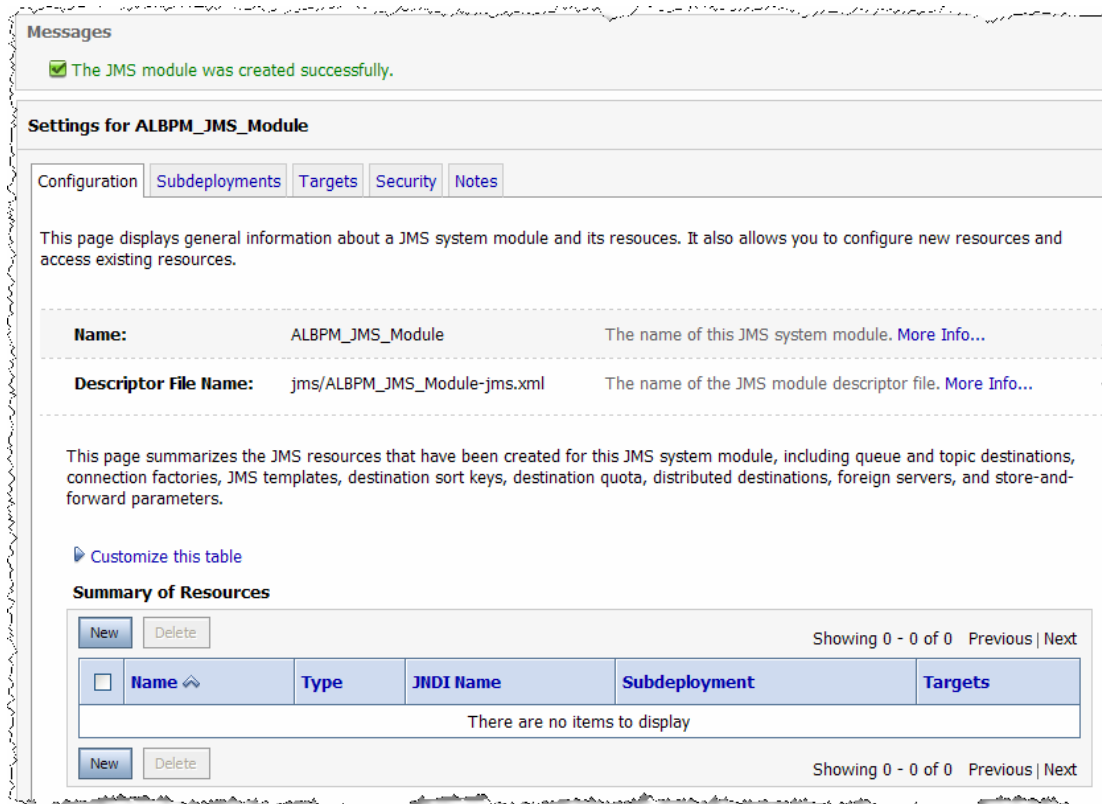
Check the checkbox beside "Admin Server".



Check the check box beside “Would you like to add resources to this JMS system module?”.



Click **Finish**.



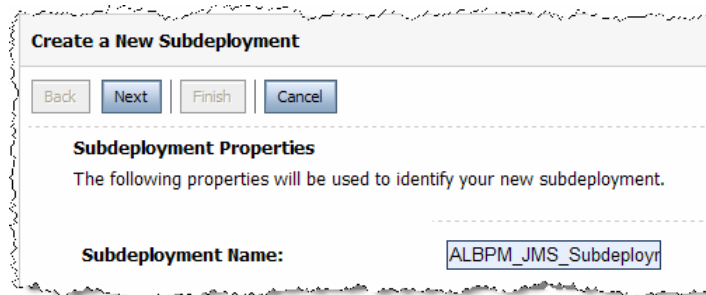
Create a New Subdeployment

Click the **Subdeployments** tab.



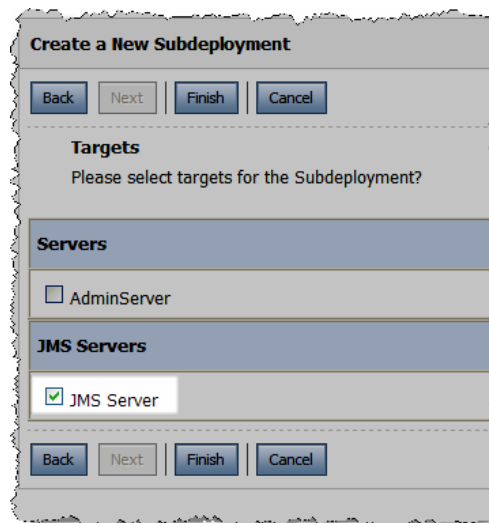
Click **New**.

Name the new subdeployment **ALBPM_JMS_Subdeployment**.



Click **Next**.

Check the checkbox beside "**JMS Server**".



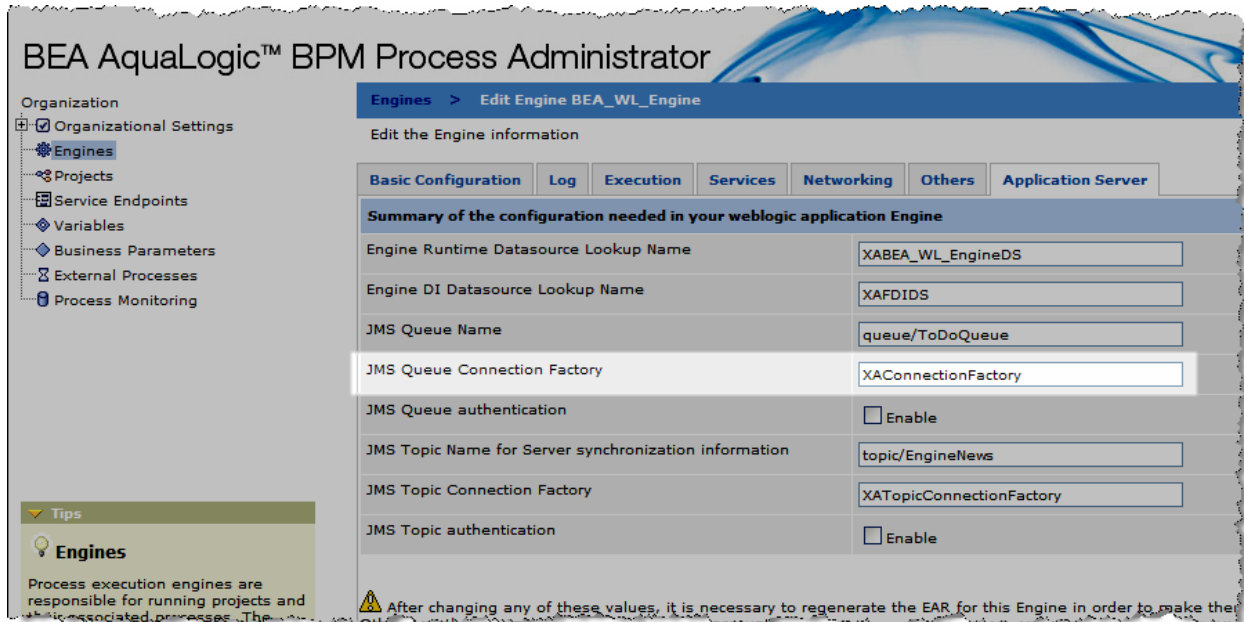
Click **Finish**.

Click **Activate Changes**.

Click **Lock & Edit**.

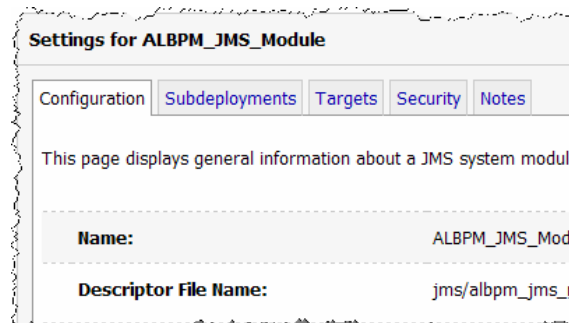
Create the Connection Factory for the Queue

Recall earlier when configuring the ALBPM Engine in the ALBPM Process Administrator, the default Application Server settings were automatically set as shown below.



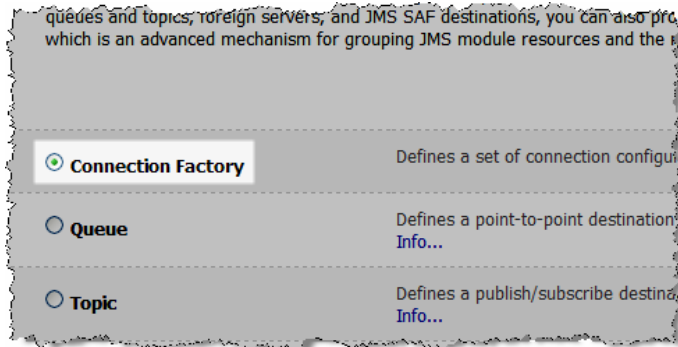
Specifically, the "JMS Queue Connection Factory" setting "XAConnectionFactory" will be used in the next step.

Click the **Configuration** tab for the ALBPM_JMS_Module module.



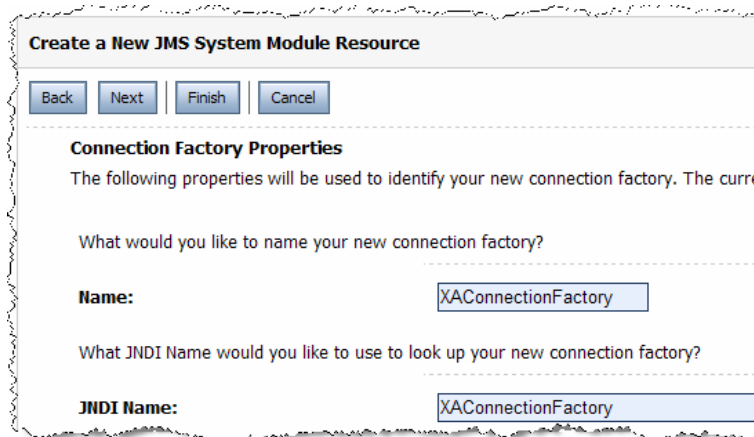
Click **New**.

Select the **Connection Factory** radio button.



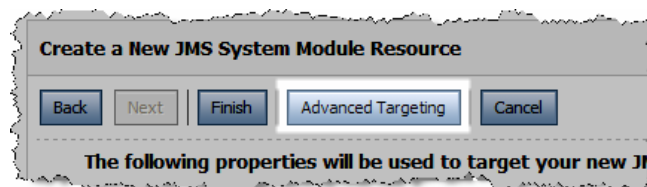
Click **Next**.

Enter **XAConnectionFactory** in both the Name and JNDI Name fields as shown below.



Double check the spelling and case sensitivity.

Click **Next**.



Click **Advanced Targeting**.

As shown below, for the "Subdeployments" select **ALBPM_JMS_Subdeployment** from the dropdown.

Select the **JMS Server** checkbox.

Select the subdeployment you want to use. If you select (none), no targeting will occur.

Subdeployments: ALBPM_JMS_Subdeployment Create a New Subdeployment

What targets do you want to assign to this subdeployment?

Targets:

Servers
<input type="checkbox"/> AdminServer

JMS Servers
<input checked="" type="checkbox"/> JMS Server

Click **Finish**.

Settings for ALBPM_JMS_Module

Configuration Subdeployments Targets Security Notes

This page displays general information about a JMS system module and its resources. It also allows you to configure new resources and access existing resources.

Name: ALBPM_JMS_Module The name of this JMS system module. [More Info...](#)

Descriptor File Name: jms/albpm_jms_module-jms.xml The name of the JMS module descriptor file. [More Info...](#)

This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factories, JMS templates, destination sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward parameters.

[Customize this table](#)

Summary of Resources

New Delete Showing 1 - 1 of 1 [Previous](#) | [Next](#)

<input type="checkbox"/>	Name	Type	JNDI Name	Subdeployment	Targets
<input type="checkbox"/>	XAConnectionFactory	Connection Factory	XAConnectionFactory	ALBPM_JMS_Subdeployment	JMS Server

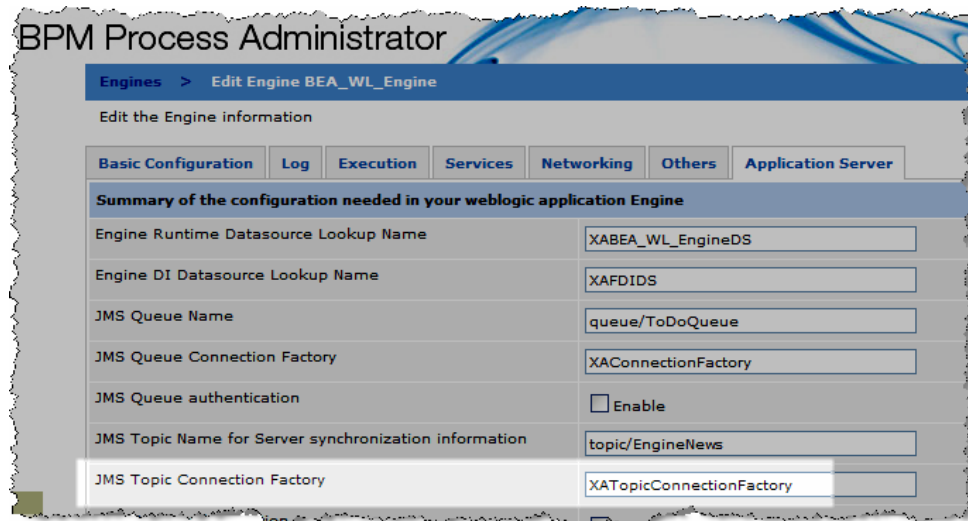
New Delete Showing 1 - 1 of 1 [Previous](#) | [Next](#)

Click **Activate Changes**.

Click **Lock & Edit**.

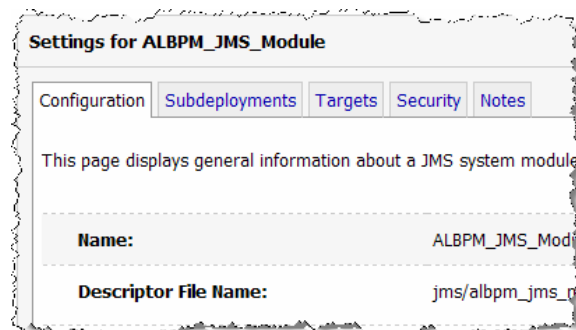
Create the Connection Factory for the News Topic

Recall earlier when configuring the ALBPM Engine in the ALBPM Process Administrator, the default Application Server settings were automatically set as shown below.



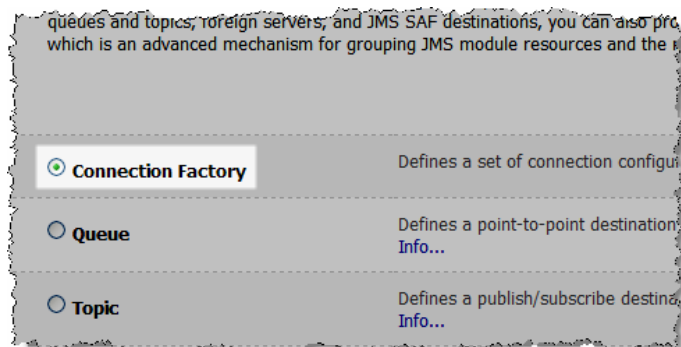
Specifically, the "JMS Topic Connection Factory" setting "XATopicConnectionFactory" will be used in the next step.

Click the **Configuration** tab for the ALBPM_JMS_Module module.



Click **New**.

Select the **Connection Factory** radio button.



Click **Next**.

Enter **XATopicConnectionFactory** in both the Name and JNDI Name fields as shown below.

Create a New JMS System Module Resource

Back Next Finish Cancel

Connection Factory Properties
The following properties will be used to identify your new connection factory. The current mode is Standard.

What would you like to name your new connection factory?

Name: XATopicConnectionFactory

What JNDI Name would you like to use to look up your new connection factory?

JNDI Name: XATopicConnectionFactory

Double check the spelling and case sensitivity.

Click **Next**.

Create a New JMS System Module Resource

Back Next Finish Advanced Targeting Cancel

The following properties will be used to target your new JMS resource.

Click **Advanced Targeting**.

As shown below, for the "Subdeployments" select **ALBPM_JMS_Subdeployment** from the dropdown.

Select the **JMS Server** checkbox.

Select the subdeployment you want to use. If you select (none), no targeting will occur.

Subdeployments: ALBPM_JMS_Subdeployment Create a New Subdeployment

What targets do you want to assign to this subdeployment?

Targets:

Servers	
<input type="checkbox"/>	AdminServer

JMS Servers	
<input checked="" type="checkbox"/>	JMS Server

Click **Finish**.

Settings for ALBPM_JMS_Module

Configuration Subdeployments Targets Security Notes

This page displays general information about a JMS system module and its resources. It also allows you to configure new resources and access existing resources.

Name: ALBPM_JMS_Module The name of this JMS system module. [More Info...](#)

Descriptor File Name: jms/albpm_jms_module-jms.xml The name of the JMS module descriptor file. [More Info...](#)

This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factories, JMS templates, destination sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward parameters.

[Customize this table](#)

Summary of Resources

New Delete Showing 1 - 2 of 2 Previous | Next

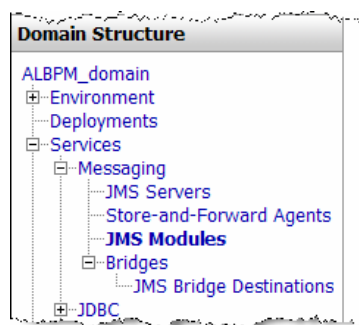
<input type="checkbox"/>	Name	Type	JNDI Name	Subdeployment	Targets
<input type="checkbox"/>	XAConnectionFactory	Connection Factory	XAConnectionFactory	ALBPM_JMS_Subdeployment	JMS Server
<input type="checkbox"/>	XATopicConnectionFactory	Connection Factory	XATopicConnectionFactory	ALBPM_JMS_Subdeployment	JMS Server

Click **Activate Changes**.

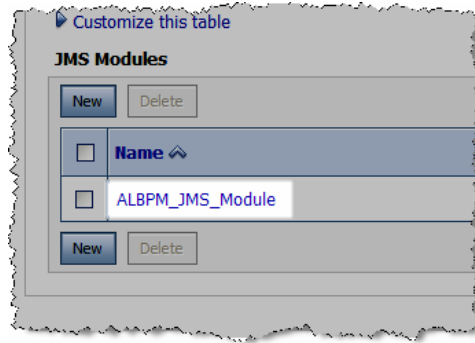
Click **Lock & Edit**.

Configure the Queue

As shown below, in the left panel expand **Services** ⇒ expand **Messaging** ⇒ click **JMS Modules**.



Select the name of the JMS Module you created earlier.

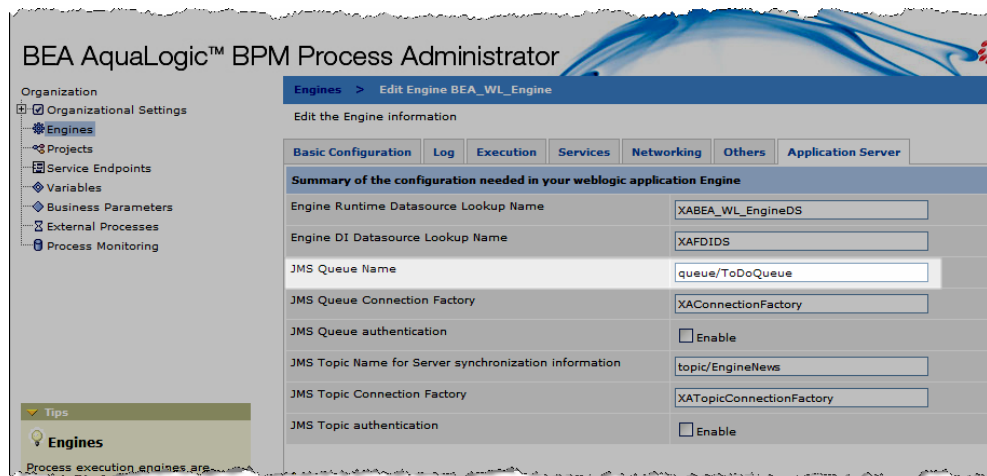


Click **New**.

Select the **Queue** radio button.



Recall earlier when configuring the ALBPM Engine in the ALBPM Process Administrator, the default Application Server settings were set as shown below.



In this step, the queue name **"queue/ToDoQueue"** will be used.

Click **Next**.

As shown below, enter the name **ToDoQueue** and the JNDI Name **queue/ToDoQueue**. Leave the template set to **None**.

Create a New JMS System Module Resource

Back Next Finish Cancel

JMS Destination Properties
The following properties will be used to identify your new Queue. The current module is ALBP...

Name:

JNDI Name:

Template:

Double check the spelling and case sensitivity.

Click **Next**.

Click **Advanced Targeting**.

As shown below, for the "Subdeployments" select **ALBPM_JMS_Subdeployment** from the dropdown.

Ensure that the **JMS Server** radio button is selected.

Select the subdeployment you want to use. If you select (none), no targeting will occur.

Subdeployments:

What targets do you want to assign to this subdeployment?

Targets:

JMS Servers

☒ JMS Server

Click **Finish**.

Summary of Resources

New Delete Showing 1 - 3 of 3 Previous | Next

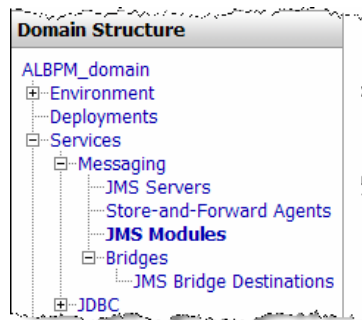
<input type="checkbox"/>	Name ↕	Type	JNDI Name	Subdeployment	Targets
<input type="checkbox"/>	ToDoQueue	Queue	queue/ToDoQueue	ALBPM_JMS_Subdeployment	JMS Server
<input type="checkbox"/>	XAConnectionFactory	Connection Factory	XAConnectionFactory	ALBPM_JMS_Subdeployment	JMS Server
<input type="checkbox"/>	XATopicConnectionFactory	Connection Factory	XATopicConnectionFactory	ALBPM_JMS_Subdeployment	JMS Server

Click **Activate Changes**.

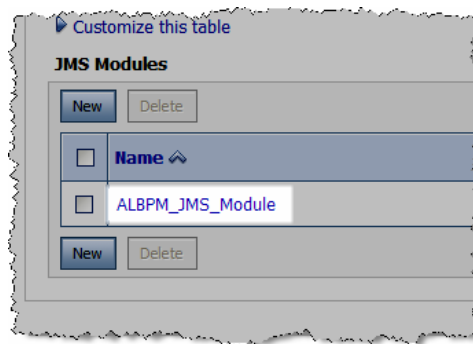
Click **Lock & Edit**.

Configure the News Topic

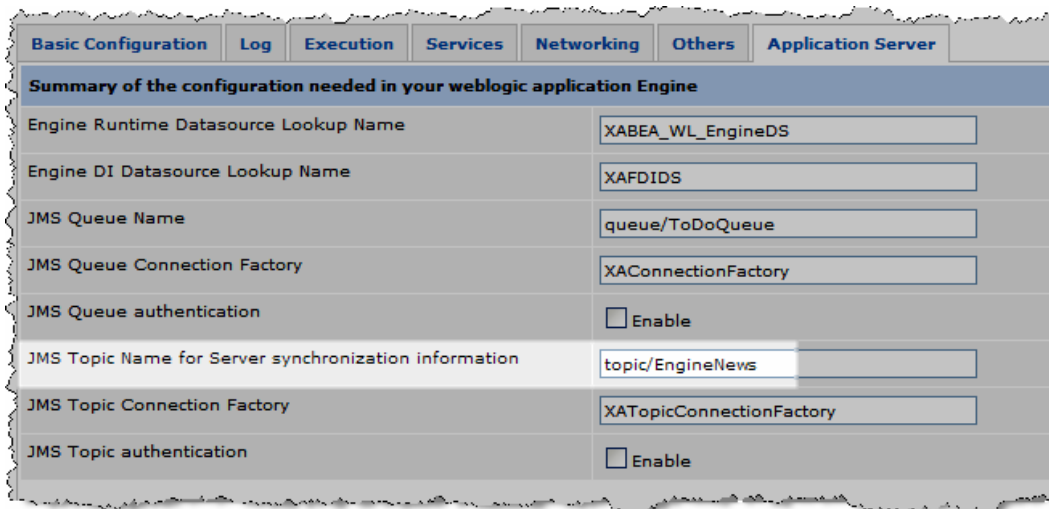
As shown below, in the left panel expand **Services** ⇒ expand **Messaging** ⇒ click **JMS Modules**.



Select the name of the JMS Module you created earlier.



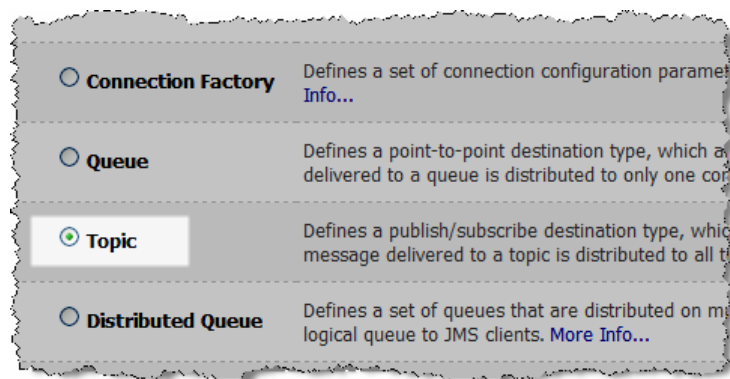
Recall earlier when configuring the ALBPM Engine in the ALBPM Process Administrator, the default Application Server settings were set as shown below.



Summary of the configuration needed in your weblogic application Engine	
Engine Runtime Datasource Lookup Name	XABEA_WL_EngineDS
Engine DI Datasource Lookup Name	XAFDIDS
JMS Queue Name	queue/ToDoQueue
JMS Queue Connection Factory	XAConnectionFactory
JMS Queue authentication	<input type="checkbox"/> Enable
JMS Topic Name for Server synchronization information	topic/EngineNews
JMS Topic Connection Factory	XATopicConnectionFactory
JMS Topic authentication	<input type="checkbox"/> Enable

Click **New**.

Select the **Topic** radio button choice.



<input type="radio"/> Connection Factory	Defines a set of connection configuration parameters. More Info...
<input type="radio"/> Queue	Defines a point-to-point destination type, which a message delivered to a queue is distributed to only one consumer.
<input checked="" type="radio"/> Topic	Defines a publish/subscribe destination type, which a message delivered to a topic is distributed to all subscribers.
<input type="radio"/> Distributed Queue	Defines a set of queues that are distributed on multiple physical queues to JMS clients. More Info...

Click **Next**.

As shown below, enter the name of the topic and enter the name **EngineNews** and JNDI name **topic/EngineNews** (enter this exactly as it is shown here with the same case sensitivity).



Name:	EngineNews
JNDI Name:	topic/EngineNews
Template:	None

Click **Next**.

As shown below, for the "Subdeployments" select **ALBPM_JMS_Subdeployment** from the dropdown.

Ensure that the **JMS Server** radio button is selected.

Select the subdeployment you want to use. If you select (none), no targeting will occur.

Subdeployments: ALBPM_JMS_Subdeployment ▼ Create a New Subdeployment

What targets do you want to assign to this subdeployment?

Targets:

JMS Servers
<input checked="" type="radio"/> JMS Server

Click **Finish**.

Summary of Resources

New Delete Showing 1 - 4 of 4 Previous | Next

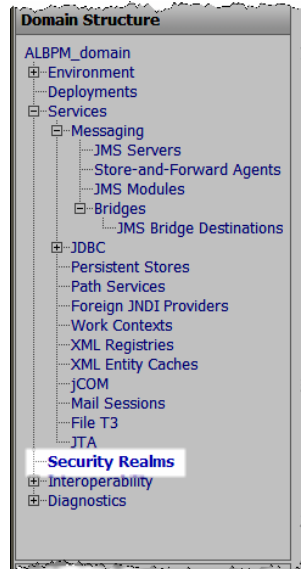
<input type="checkbox"/>	Name ^	Type	JNDI Name	Subdeployment	Targets
<input type="checkbox"/>	EngineNews	Topic	topic/EngineNews	ALBPM_JMS_Subdeployment	JMS Server
<input type="checkbox"/>	ToDoQueue	Queue	queue/ToDoQueue	ALBPM_JMS_Subdeployment	JMS Server
<input type="checkbox"/>	XAConnectionFactory	Connection Factory	XAConnectionFactory	ALBPM_JMS_Subdeployment	JMS Server
<input type="checkbox"/>	XATopicConnectionFactory	Connection Factory	XATopicConnectionFactory	ALBPM_JMS_Subdeployment	JMS Server

Click **Activate Changes**.

Click **Lock & Edit**.

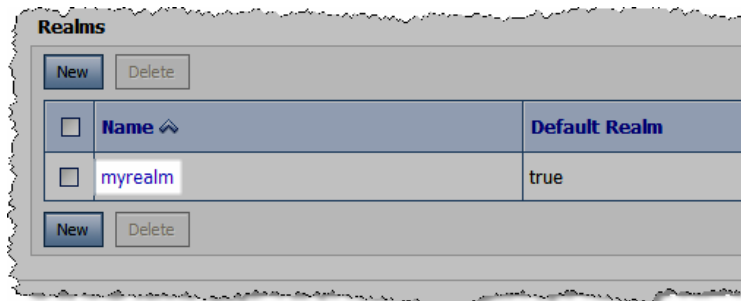
Create a Deployer User

In the left panel, click **Security Realms**.

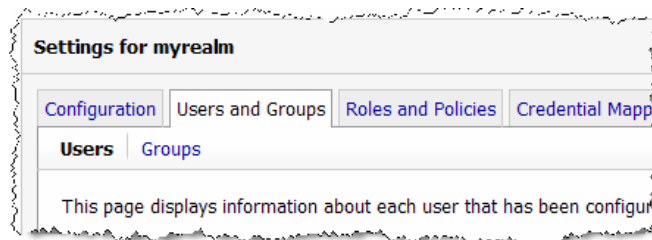


Click the **Lock & Edit** button.

Click **myrealm**.



Click the **Users and Groups** tab.



Click the **New** button.

Enter the name **FuegoWebLogicDeployer** as shown below in the Name and Description fields. Leave the Provider set to the "DefaultAuthenticator". Set the password fields to "password".

User Properties

The following properties will be used to identify your new User.

What would you like to name your new User?

Name:

How would you like to describe the new User?

Description:

Please choose a provider for the user.

Provider:

The password is associated with the login name for the new User.

Password:

Confirm Password:



Warning – the name of the user must be “FuegoWebLogicDeployer” (all one word and case sensitive).

Click **Ok**.

Click “**FuegoWebLogicDeployer**”


User List

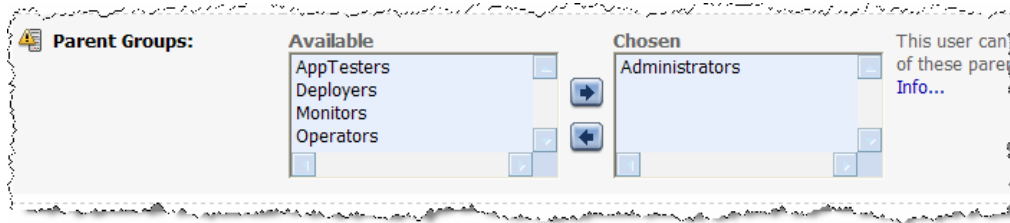
<input type="checkbox"/>	Name ^	Description
<input type="checkbox"/>	FuegoWebLogicDeployer	FuegoWebLogicDeployer
<input type="checkbox"/>	weblogic	This user is the default administrator.

Click the **Groups** tab.

Settings for FuegoWebLogicDeployer

Use this page to configure group membership for this user.

Highlight **Administrators** on the panel on the left and click the  button to add it to the panel on the right.



Click the **Save** button.

Click the **Release Configuration** button.

Stop and restart the WebLogic server.



Warning – you must stop and restart the WebLogic server after creating a deployer user (lock and release is not sufficient to have this change take effect).

Deploy the ALBPM J2EE Deployer

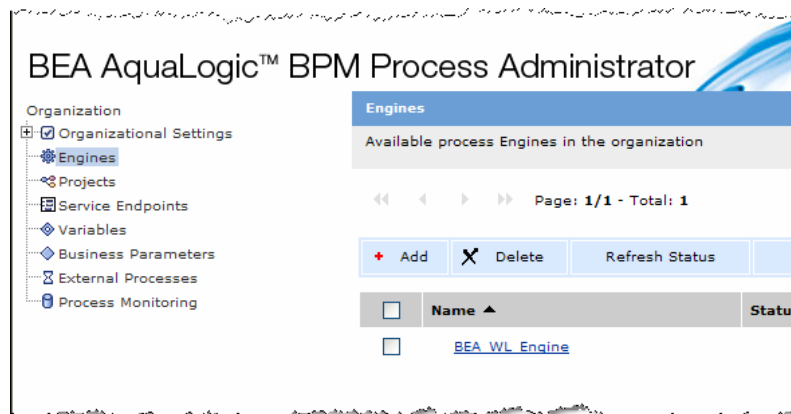
Now that the J2EE resources have been created, you can provide the Enterprise Application EAR files to the WebLogic Server Administration Console for deployment.

ALBPM provides a J2EE Deployer application, which can be used to deploy server and project applications from ALBPM Process Administrator console. The ALBPM J2EE Deployer simplifies the administration (start, stop, uninstall, etc.) of server and project applications, by allowing you to execute these tasks directly from the ALBPM Process Administrator.

Deploying ALBPM Library JAR

The ALBPM Library JAR needs to be made available in for the BEA Application Server.

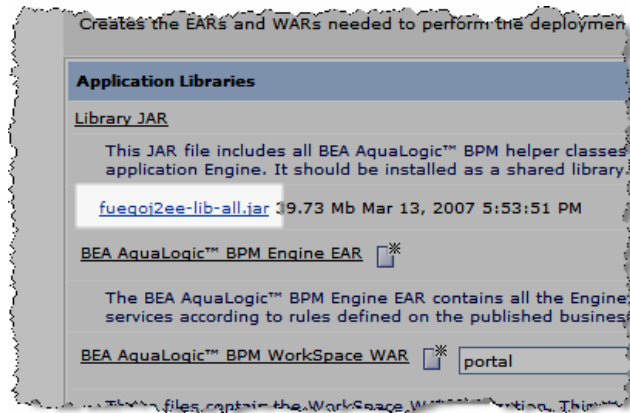
In the ALBPM Process Administrator, click **Engines** on the left and then click the name of the Engine ("BEA_WL_Engine" in the example below).



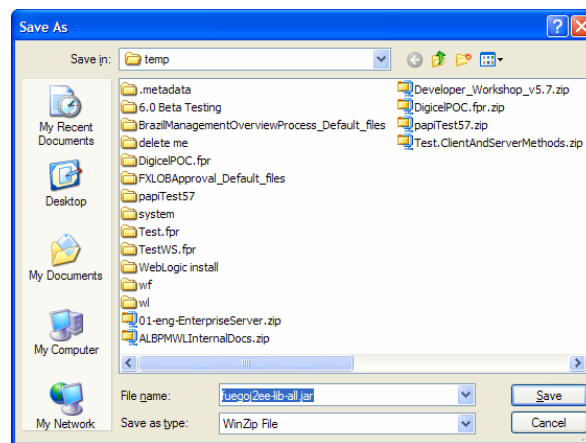
Click **J2EE Application Server Files (EARs, WARs)** as shown below.



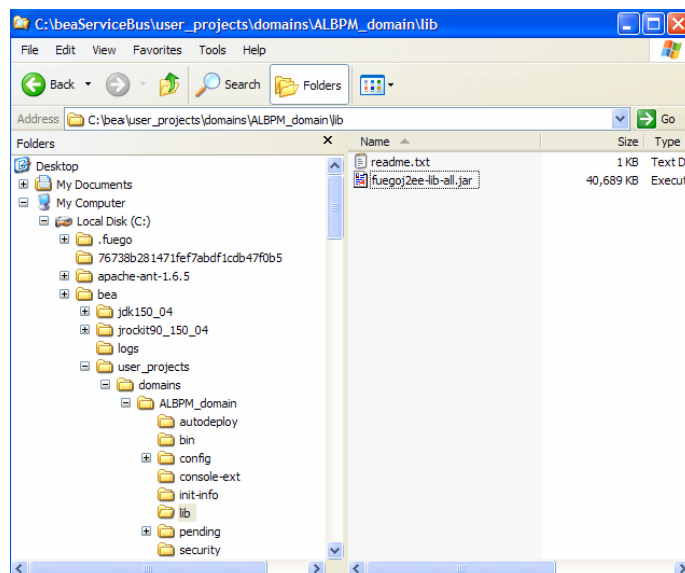
Click the link **fuegoj2ee-lib-all.jar** as shown below.



Save the file somewhere on your hard drive.



Copy **fuego2ee-lib-all.jar** to your WebLogic domain's "lib" directory. For example, the domain used through this document has been "ALBPM_domain". In this example, the file would need to be copied to the directory "C:\bea\user_projects\domains\ALBPM_domain\lib".

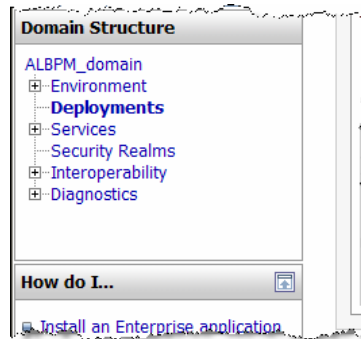


Deploying ALBPM J2EE Deployer

In these steps the ALBPM J2EE Deployer (wlj2eedeployer.ear file) will be installed.

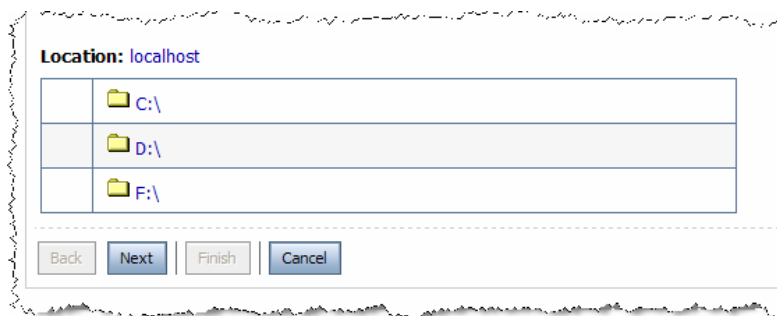
Open the WebLogic Server Administration Console.

On the left, click **Deployments**.



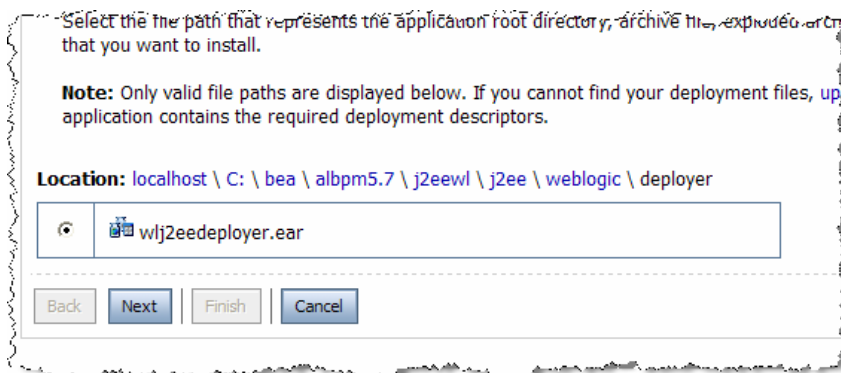
Click the **Install** button.

Click the appropriate drive.



In this example, the **wlj2eedeployer.ear** file is located in the **"C:\bea\al bpm5.7\j2ee\wl\j2ee\weblogic\deployer"** directory (this is the default ALBPM Enterprise installation directory).

Click the radio button beside the **wlj2eedeployer.ear** file.



Click **Next**.

If you get the error:

Unable to access the selected application.
exception in AppMerge flows' progression.

then your installation of WebLogic 9.2 does not have MP1 applied (see “Prerequisites” section of this document). Apply MP1 and repeat this step.

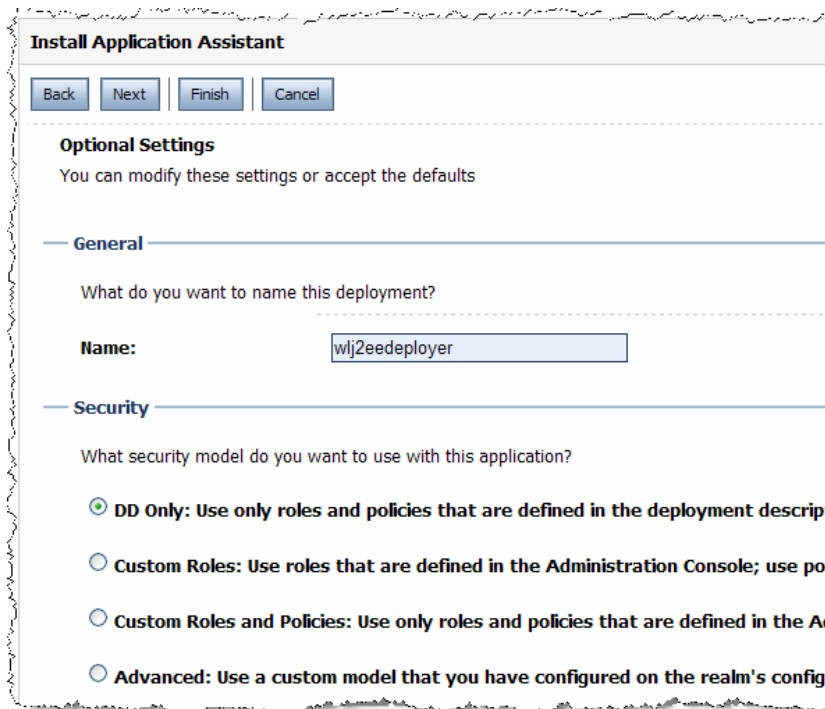
As shown below, select the “**Install this deployment as an application**” radio button option.



Click **Next**.



Warning – If you see a “appMerge Flow Progression” exception, double check your WebLogic Server version. You need to be on at least 9.2 MP1. Upgrade to at least MP1.



Click **Next**.

Review your choices and click Finish
Click Finish to complete the deployment. This may take a few moments to complete.

Additional configuration

In order to work successfully, this application may require additional configuration. Do you want to review this application's configuration after completing this assistant?

☒ **Yes, take me to the deployment's configuration screen.**

☐ **No, I will review the configuration later.**

Summary

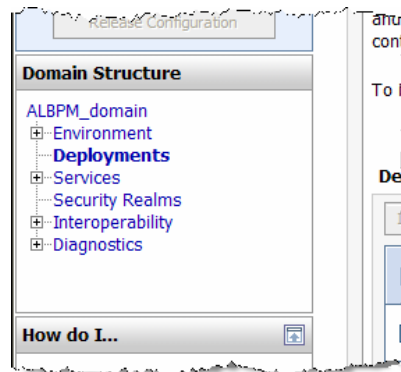
Deployment:	C:\bea\albpms5.7\j2ee\wlj2ee\weblogic\deployer\wlj2eedeployer.ear
Name:	wlj2eedeployer
Staging mode:	Use the defaults defined by the chosen targets
Security Model:	DDOnly: Use only roles and policies that are defined in the deployment descriptors.

Click **Finish**.

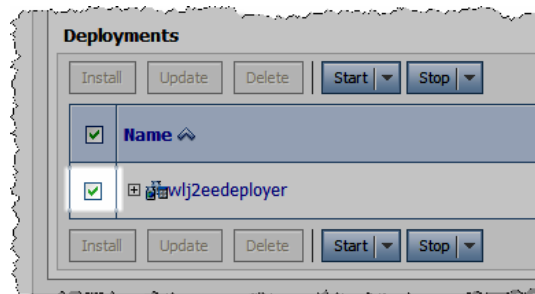
Click **Activate Changes**.

Start the J2EE Deployer Application

On the left, click **Deployments**



Check the checkbox beside the wlj2eedeployer.



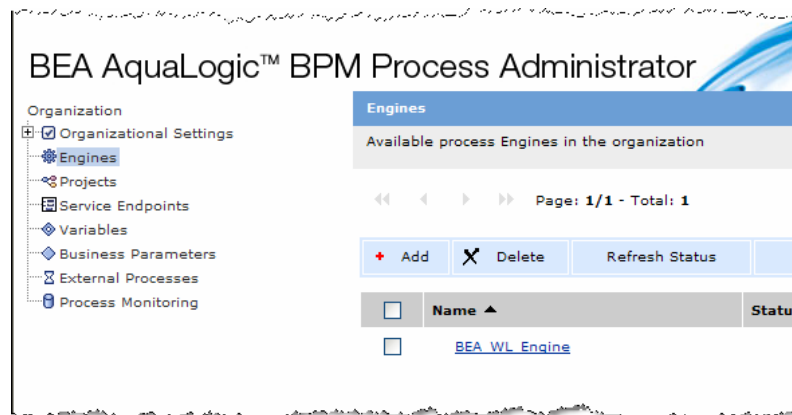
Click the **Start** button ⇒ **Servicing all Requests**.



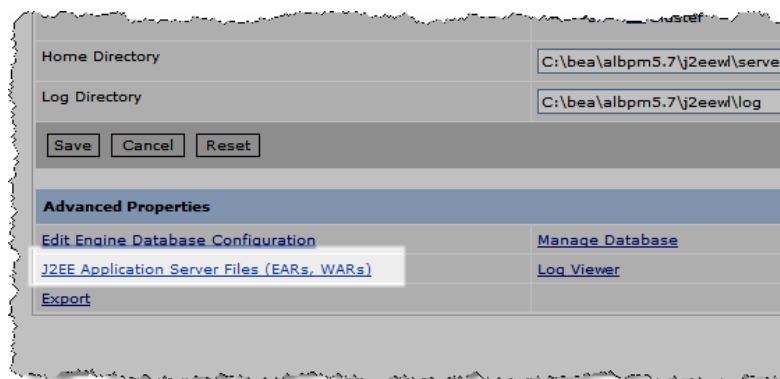
Click **Yes**.

Deploy the ALBPM Engine

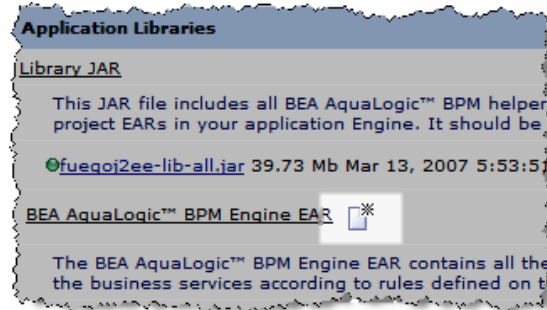
In the ALBPM Process Administrator, click **Engines** on the left and then click the name of the Engine ("**BEA_WL_Engine**" in the example below).




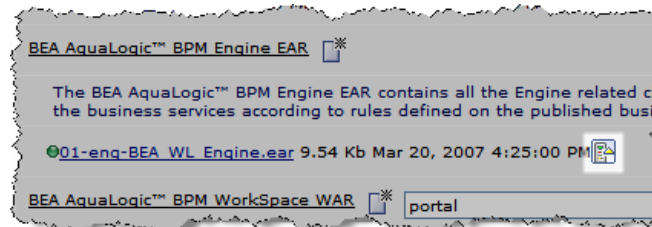
Click **J2EE Application Server Files (EARs, WARs)** as shown below.




Click on the  icon to create the Engine's EAR file.

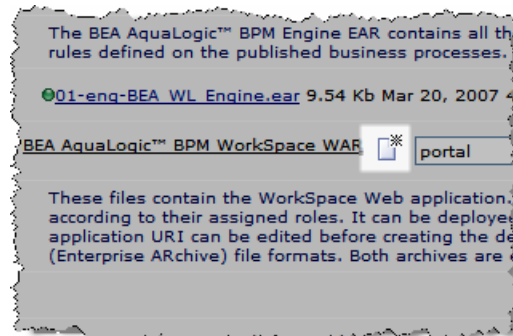


Click the  icon to install the EAR on the Application Server.

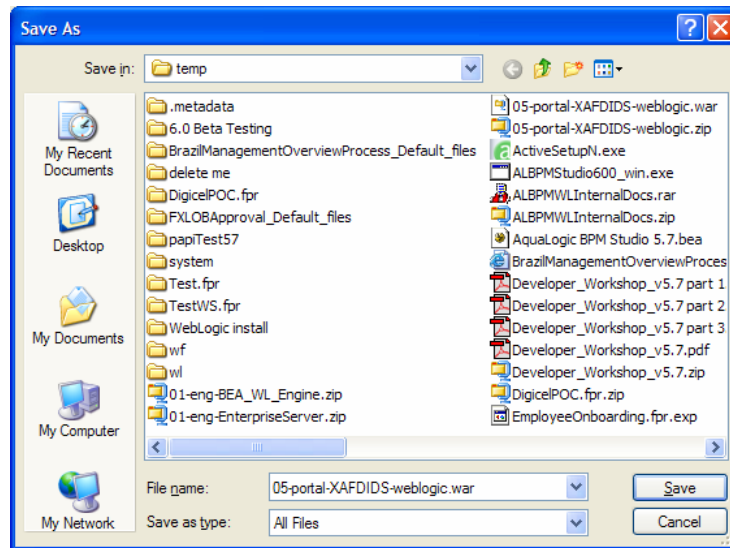


Deploy the ALBPM Workspace

As shown below, click the  icon beside "BEA AquaLogic BPM Workspace WAR".

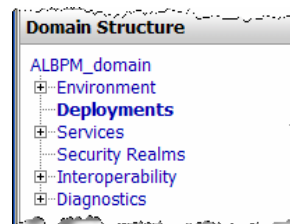


After the Workspace's WAR file is generated, save it somewhere to your hard drive (be sure that it is saved with the WAR file extension and not ZIP).



Open the WebLogic Administration Console.

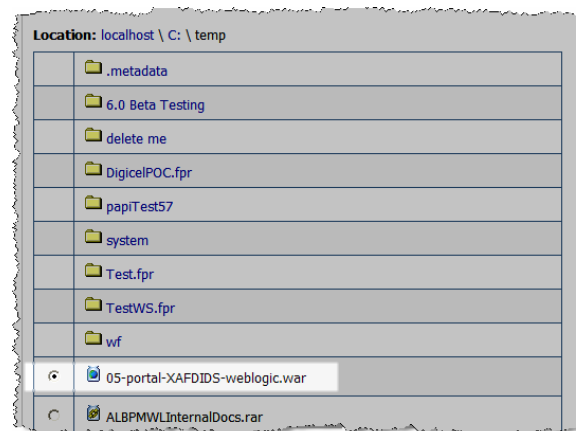
In the Domain structure on the left, click **Deployments**.



Click **Lock & Edit**.

Click **Install**.

Find the 05-portal-XAFDIDS-weblogic.war file you saved on your hard drive and click the radio button beside the file.

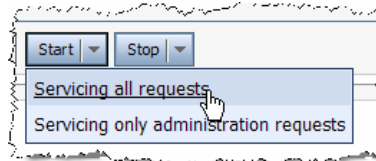


Take the defaults, clicking **Next** and **Next** and **Finish**.

As shown below, check the checkbox beside the **05-portal-XAFDIDS-weblogic** portal application.



Click **Start** and then **Servicing all requests**.



Publishing a Project

ALBPM projects can be deployed into the WebLogic ALBPM Engine using the same Deployer Application you used to deploy the Engine.

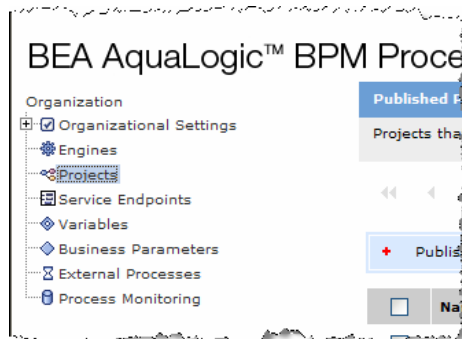
Before the project can be deployed, the project must first be activated in ALBPM Enterprise using the ALBPM Process Administrator.

This provides a the basic steps to publish and deploy a project. For more information, please refer to the ALBPM Administrator Guide documentation.

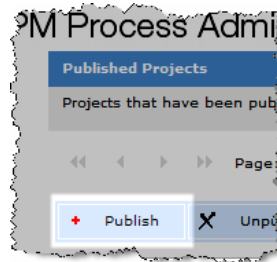


Warning – While it is tempting to publish one of the projects in the Studio Sample directory, most of these examples use input and display statements that will not deploy to an an ALBPM Engine running on an Application Server. You will be far better off creating a small project with a process that has a Global Creation activity and an Interactivity (with no logic) to test things out.

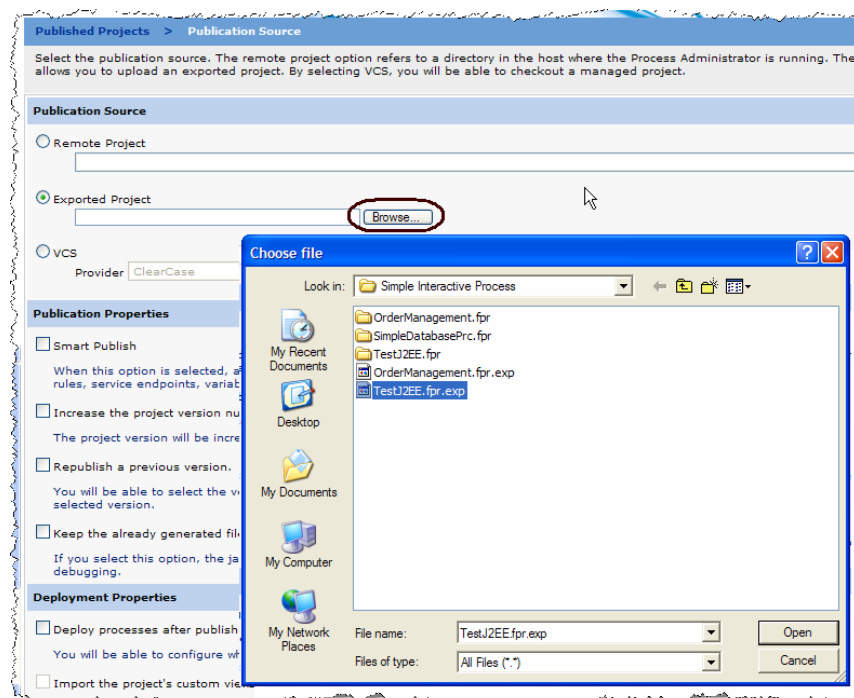
Open the ALBPM Process Administrator application and click **Projects**.



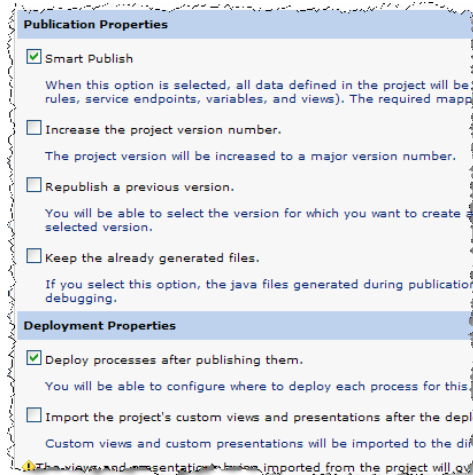
Click Publish.



Select the project's publication source. If it is an exported project, click **Exported Project** radio button ⇒ click the **Browse** button ⇒ open the project's exp file (TestJ2EE.fpr.exp in the example below).



Check both the **Smart Publish** and **Deploy processes after publishing them**.



Click **OK**.

Expand **Role Mapping**. Note the name(s) of roles in the project ("Test" in the project below). These role names are important to note because you will need to create a participant with these roles assigned in the next section.



Click **Publish**.

Click **OK**.

Add a Test participant to the roles in the project by first expanding **Organizational Settings**.

Create a Participant

Click **Participants**.

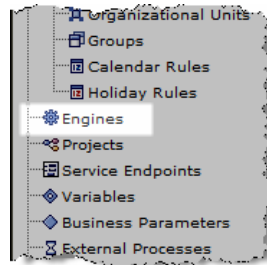


Add a new participant and add them to the role(s) in the project you just published ("Test" role in this example).

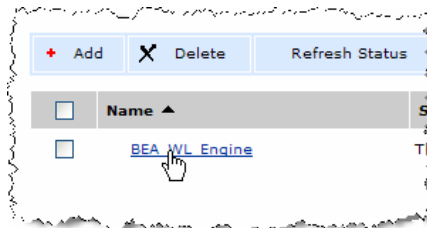
Deploying an ALBPM Project EAR in WebLogic

An ALBPM project EAR file is deployed to WebLogic using the same Deployer Application you used to deploy the Engine.

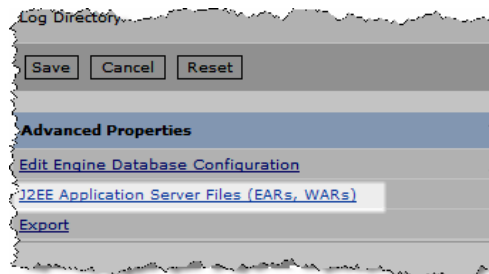
To do deploy a project after it has been published (above section), in the ALBPM Process Administrator click **Engines**.




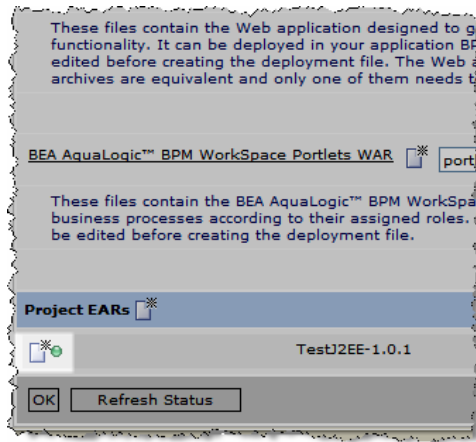
Click the name of the Engine.




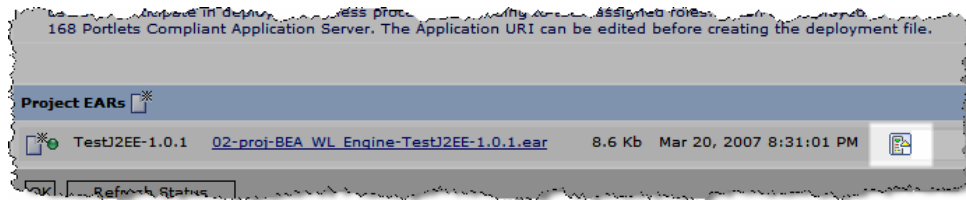
Click **J2EE Application Server Files (EARs, WARs)**.



Scroll to the bottom of the page and click the  icon beside the project you want to deploy. This creates the EAR file for the project.



Click the  installation icon to automatically deploy the project to WebLogic.



The ALBPM application project is now ready to be used with WebLogic Application Server.

Connecting to the Workspace

The next step is to connect to the Workspace to check that the deployment has been done successfully.

Connect to the Workspace Portal using the URL <http://host:port/portal>, where host is the host name where the Application Server is deployed and port is the port where the BEA Application Server is listening for incoming HTTP connection. "portal" is the out of the box Web Application name for the Workspace.

Following the conventions used in this document, this URL would be:

<http://{your machine name}:7001/portal>

Log in as the test participant you created a few minutes ago.

AquaLogic BPM Enterprise 5.7 Installation for WebLogic 9.2

