



# BEA WebLogic Adapter for Oracle® Applications

## Installation and Configuration Guide for WebLogic Integration 2.1

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## BEA WebLogic Adapter for Oracle Applications Installation and Configuration Guide for WebLogic Integration 2.1

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| N/A         | November 2002 |

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# About This Document

This document explains how to install, configure, and deploy the BEA WebLogic Adapter for Oracle Applications for WebLogic Integration 2.1 to develop online connections to Oracle Applications using BEA WebLogic Integration.

This document is organized as follows:

- [Chapter 1, “Installing the Adapter for WebLogic Integration 2.1,”](#) describes how to install the adapter.

## Audience

This document is written for system integrators with programming backgrounds and an understanding of the Oracle Applications product in an application space. Extensive knowledge of Oracle Applications is not required, but may be helpful in learning about the adapter.

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# Related Information

The following documents provide additional information for the associated software components:

- *BEA WebLogic Adapter for Oracle Applications User Guide*
- *BEA WebLogic Adapter for Oracle Applications Release Notes*
- *BEA Application Explorer Installation and Configuration Guide*
- BEA WebLogic Server 6.1 installation and user documentation, which is available at the following URL:

<http://edocs.bea.com/wls/docs61/index.html>

- BEA WebLogic Integration 2.1 installation and user documentation, which is available at the following URL:

[http://edocs.bea.com/wlintegration/v2\\_1sp/index.html](http://edocs.bea.com/wlintegration/v2_1sp/index.html)

# Contact Us!

Your feedback on the BEA WebLogic Adapter for Oracle Applications documentation is important to us. Send us e-mail at [docsupport@bea.com](mailto:docsupport@bea.com) if you have questions or comments. Your comments will be reviewed directly by the BEA professionals who create and update the adapter documentation.

In your e-mail message, please indicate which version of the adapter documentation you are using.

If you have any questions about this version of the adapter, or if you have problems installing and running it, contact BEA Customer Support through BEA WebSupport at [www.bea.com](http://www.bea.com). You can also contact Customer Support by using the contact information provided on the Customer Support Card, which is included in the product package.

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When contacting Customer Support, be prepared to provide the following information:

- Your name, e-mail address, phone number, and fax number
- Your company name and company address
- Your machine type and authorization codes
- The name and version of the product you are using
- A description of the problem and the content of pertinent error messages

## Documentation Conventions

The following conventions are used throughout this document.

| Convention           | Item                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>boldface text</b> | Indicates terms defined in the glossary.                                                                                                                                                                                                                                                                                                                                              |
| Ctrl+Tab             | Indicates that you must press two or more keys simultaneously.                                                                                                                                                                                                                                                                                                                        |
| <i>italics</i>       | Indicates emphasis or book titles.                                                                                                                                                                                                                                                                                                                                                    |
| monospace text       | <p>Indicates code samples, commands and their options, data structures and their members, data types, directories, and file names and their extensions. Monospace text also indicates text that you must enter from the keyboard.</p> <p><i>Examples:</i></p> <pre>#include &lt;iostream.h&gt; void main ( ) the pointer psz chmod u+w * \tux\data\ap .doc tux.doc BITMAP float</pre> |

| Convention                                         | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>monospace</b><br><b>boldface</b><br><b>text</b> | Identifies significant words in code.<br><i>Example:</i><br>void <b>commit</b> ( )                                                                                                                                                                                                                                                                                                                                                                                                |
| <i>monospace</i><br><i>italic</i><br><i>text</i>   | Identifies variables in code.<br><i>Example:</i><br>String <i>expr</i>                                                                                                                                                                                                                                                                                                                                                                                                            |
| UPPERCASE<br>TEXT                                  | Indicates device names, environment variables, and logical operators.<br><i>Examples:</i><br>LPT1<br>SIGNON<br>OR                                                                                                                                                                                                                                                                                                                                                                 |
| { }                                                | Indicates a set of choices in a syntax line. The braces themselves should never be typed.                                                                                                                                                                                                                                                                                                                                                                                         |
| [ ]                                                | Indicates optional items in a syntax line. The brackets themselves should never be typed.<br><i>Example:</i><br>buildobjclient [-v] [-o name ] [-f <i>file-list</i> ]...<br>[-l <i>file-list</i> ]...                                                                                                                                                                                                                                                                             |
|                                                    | Separates mutually exclusive choices in a syntax line. The symbol itself should never be typed.                                                                                                                                                                                                                                                                                                                                                                                   |
| ...                                                | Indicates one of the following in a command line: <ul style="list-style-type: none"> <li>■ That an argument can be repeated several times in a command line</li> <li>■ That the statement omits additional optional arguments</li> <li>■ That you can enter additional parameters, values, or other information</li> </ul> The ellipsis itself should never be typed.<br><i>Example:</i><br>buildobjclient [-v] [-o name ] [-f <i>file-list</i> ]...<br>[-l <i>file-list</i> ]... |
| .                                                  | Indicates the omission of items from a code example or from a syntax line. The vertical ellipsis itself should never be typed.                                                                                                                                                                                                                                                                                                                                                    |



# 1 Installing the Adapter for WebLogic Integration 2.1

This section provides instructions for installing the BEA WebLogic Adapter for Oracle Applications. It includes the following topics:

- [Before Installing the Adapter](#)
- [Understanding the Representation of Paths](#)
- [Step 1. Obtaining the BEA WebLogic Adapter for Oracle Applications](#)
- [Step 2. Extracting JARs and Adjusting the Classpath](#)
- [Step 3. Configuring the WebLogic Integration Database for the Domain](#)
- [Step 4. Replacing the xmltoolkit.jar File](#)
- [Step 5. Updating the BEA License](#)
- [Step 6. Deploying the Adapter Using the WebLogic Server Console](#)
- [Step 7. Adding the Administrative Server User Name to the Adapter Group](#)
- [Step 8. Installing Stored Procedures](#)
- [Next Steps](#)

# Before Installing the Adapter

Before you install the BEA WebLogic Adapter for Oracle Applications, you must review the *BEA WebLogic Adapter for Oracle Applications Release Notes* to ensure that you have the required prerequisite software installed. The *BEA WebLogic Adapter for Oracle Applications Release Notes* is available at the following URL:

<http://edocs.bea.com/wlapters/doc70/index.html>

# Understanding the Representation of Paths

Because the location of files in the WebLogic Integration environment depends on options selected during installation and configuration, the conventions that follow are used throughout to represent paths.

- *BEA\_HOME* represents the BEA Home directory specified for your WebLogic installation.

For example, if you install the product in the default location on a Windows system, *BEA\_HOME* represents `c:\bea`.

- *WLI\_HOME* represents the root of your WebLogic Integration installation.

For example:

- If you install WebLogic Integration 2.1 in the default location on a Windows system, *WLI\_HOME* represents `c:\bea\wlintegration2.1`.

- *domain* is used to indicate the name of a domain.
  - In WebLogic Integration 2.1, preconfigured domains (`bpmdomain`, `eidomain`, `wlidomain`, and `samples`) are created as subdirectories of the *WLI\_HOME*\config directory. Therefore, *domain* may be used to represent the root of a preconfigured WebLogic Integration 2.1 domain as follows:

*WLI\_HOME*\config\*domain*

- *DOMAIN\_HOME* represents the complete path to the root of a domain.

For example:

- If you install WebLogic Integration 2.1 in the default location on a Windows system, *DOMAIN\_HOME* represents  
`c:\bea\wlintegration2.1\config\domain.`

**Note:** *WLI\_HOME* and *BEA\_HOME* (italicized) also represent the corresponding Windows and UNIX environment variables. For example, the literal interpretation of *WLI\_HOME* is %WLI\_HOME% for Windows and \$WLI\_HOME for UNIX.

Unlike *WLI\_HOME* and *BEA\_HOME*, *DOMAIN\_HOME* is not an environment variable that is set by default in the WebLogic Integration environment.

# Step 1. Obtaining the BEA WebLogic Adapter for Oracle Applications

The BEA WebLogic Adapter for Oracle Applications is packaged as an EAR file (*BEA\_ORACLEAPPS\_1\_0.ear*). You can obtain the software on CD or download it from [www.bea.com](http://www.bea.com).

**Note:** At the time of publication of this document, WebLogic Server 6.1 is unable to explode RAR files (BEA Support CASE number 333672). Use an extraction tool (such as WinZip) to extract the contents of the adapter EAR file, *BEA\_ORACLEAPPS\_1\_0.ear*, and add the location of the unpackaged objects to the server's classpath (see [Step 2. Extracting JARs and Adjusting the Classpath](#)).

# Step 2. Extracting JARs and Adjusting the Classpath

Set the classpath using the procedure appropriate for your system:

- [Extracting JARs and Adjusting the Classpath for Windows](#)
- [Extracting JARs and Adjusting the Classpath for UNIX](#)

## Extracting JARs and Adjusting the Classpath for Windows

To unzip the adapter JAR files and adjust the classpath on Windows, complete the following steps:

1. Use WinZip (or another similar extracting product) to extract the `BEA_ORACLEAPPS_1_0.ear` file to a directory of your choice (for example, `BEA_HOME\AdapterEars`).
2. Download the following files
  - `classes12.zip`
  - `nls_charset12.zip`from the following Oracle Technology Web site and place them into the `BEA_HOME\AdapterEars` directory created in step 1:  
`http://otn.oracle.com/software/tech/java/sqlj\_jdbc/content.html`
3. Go to the root directory for your domain:  
`cd DOMAIN_HOME`

**Note:** You must choose a WebLogic Integration domain that supports application integration functionality.
4. Find the `SetDomainTypeData.cmd` file.

Here, *DomainType* is the type of the domain. For example, if your domain is configured to support the development of solutions that employ the full range of WebLogic Integration functionality, it contains the `SetwliDomainData.cmd` file.

5. Update the following SVRCP environment variable settings to the `SetDomainTypeData.cmd` file for the domain to include all the JAR files included in the EAR file.

**Note:** The SVRCP environment variable is used in the `SetDomainTypeData` script to set the classpath for the java executable.

After the following line:

```
set SVRCP=%SVRCP%;%WLI_DOMAIN_HOME%\wli
```

add the following JAR files, which are listed in the order required for the classpath:

```
SET SVRCP=%SVRCP%;BEA_HOME\AdapterEars\ibi-edaqm.jar
SET SVRCP=%SVRCP%;BEA_HOME\AdapterEars\BEA_ORACLEAPPS_1_0.jar
SET SVRCP=%SVRCP%;BEA_HOME\AdapterEars\xercesImpl.jar
SET SVRCP=%SVRCP%;BEA_HOME\AdapterEars\xmlParserAPIs.jar
SET SVRCP=%SVRCP%;BEA_HOME\AdapterEars\xmltoolkit.jar
SET SVRCP=%SVRCP%;BEA_HOME\AdapterEars\classes12.zip
SET SVRCP=%SVRCP%;BEA_HOME\AdapterEars\nls_charset12.zip
```

**Note:** If you will use Oracle AQ, the following file must be appended to the SVRCP variable:

```
SET SVRCP=%SVRCP%; BEA_HOME\AdapterEars\aqapi.jar
```

Here, `BEA_HOME\AdapterEars` is the directory specified in step 1.

## Extracting JARs and Adjusting the Classpath for UNIX

To extract the adapter JAR files and adjust the classpath on UNIX, complete the following steps:

1. Use `jar` (or another similar extracting product) to extract `BEA_ORACLEAPPS_1_0.ear` to a directory of your choice (for example, `BEA_HOME/ear/lib/OracleApps`).

# 1 *Installing the Adapter for WebLogic Integration 2.1*

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2. Download the following files

- classes12.zip
- nls\_charset12.zip

from the following Oracle Technology Web site and place them into the *BEA\_HOME\AdapterEars* directory created in step 1:

[http://otn.oracle.com/software/tech/java/sqlj\\_jdbc/content.html](http://otn.oracle.com/software/tech/java/sqlj_jdbc/content.html)

3. Go to the root directory for your domain:

```
cd DOMAIN_HOME
```

**Note:** You must choose a WebLogic Integration domain that supports application integration functionality.

4. Find the *SetDomainTypeData* file.

Here, *DomainType* is the type of the domain. For example, if your domain is configured to support the development of solutions that employ the full range of WebLogic Integration functionality, it contains the *SetwliDomainData* file.

5. Update the following SVRCP environment variable settings to the *SetDomainTypeData* file for the domain to include all the JAR files included in the EAR file.

**Note:** The SVRCP environment variable is used in the *SetDomainTypeData* script to set the classpath for the java executable.

After the following line:

```
SVRCP=$SVRCP:$WLI_DOMAIN_HOME\wla1
```

add the following JAR files, which are listed in the order required for the classpath:

```
SVRCP=$SVRCP:BEA_HOME/ear/lib/ORACLEAPPS/ibi-edagm.jar
SVRCP=$SVRCP:BEA_HOME/ear/lib/ORACLEAPPS/BEA_ORACLEAPPS_1_0.jar
SVRCP=$SVRCP:BEA_HOME/ear/lib/ORACLEAPPS/xercesImpl.jar
SVRCP=$SVRCP:BEA_HOME/ear/lib/ORACLEAPPS/xmlParserAPIs.jar
SVRCP=$SVRCP:BEA_HOME/ear/lib/ORACLEAPPS/xmltoolkit.jar
SVRCP=$SVRCP:BEA_HOME/ear/lib/ORACLEAPPS/classes12.zip
SVRCP=$SVRCP:BEA_HOME/ear/lib/ORACLEAPPS/nls_charset12.zip
```

**Note:** If you will use Oracle AQ, the following file must be appended to the SVRCP variable:

```
SVRCP=$SVRCP:BEA_HOME/ear/lib/ORACLEAPPS/aqapi.jar
```

Here, *BEA\_HOME/ear/lib/ORACLEAPPS* is the directory specified in step 1.

## Step 3. Configuring the WebLogic Integration Database for the Domain

If you have not already done so, you must create the WebLogic Integration database tables for your domain. For detailed instructions, see “Configuring the Database for a Domain” in *Starting, Stopping and Customizing BEA WebLogic Integration*, which is available at the following URL:

[http://edocs.bea.com/wlintegration/v2\\_1sp/config/index.htm](http://edocs.bea.com/wlintegration/v2_1sp/config/index.htm)

## Step 4. Replacing the xmltoolkit.jar File

The BEA adapters include a new `xmltoolkit.jar` file. You need to replace your existing WebLogic Integration `xmltoolkit.jar` with the new JAR file.

To configure the new `xmltoolkit.jar` file, follow these steps:

1. Rename your original `xmltoolkit.jar` to `xmltoolkit.jar.old` by entering the commands appropriate for your operating system:
  - On a Windows system:

```
cd WLI_HOME\lib
rename xmltoolkit.jar xmltoolkit.jar.old
```
  - On a UNIX system:

```
cd WLI_HOME/lib
mv xmltoolkit.jar xmltoolkit.jar.old
```
2. Extract the `xmltoolkit.jar` from the adapter EAR file into a temporary directory.
3. Copy the new `xmltoolkit.jar` file (extracted in step 2) to the `WLI_HOME\lib` directory for Windows or the `WLI_HOME/lib` directory for UNIX.

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**Caution:** Simply replacing the `xmltoolkit.jar` file is not sufficient; you must also make changes to the `setenv` and `SetDomainTypeData` scripts as described in the following steps.

4. Edit the top-level `setenv` script and make the appropriate changes for your operating system:

- On a Windows system, edit the `WLI_HOME\setenv.cmd` file.

Replace the line:

```
set WLICOMMONCP=
```

with

```
set WLICOMMONCP=%WLI_HOME%\lib\xmltoolkit.jar
```

- On a UNIX system, edit the `WLI_HOME/setenv.sh` file.

Replace the line:

```
WLICOMMONCP=$WLI_LIB/wlicommon.jar
```

with

```
WLICOMMONCP=$WLI_LIB/wlicommon.jar:$WLI_HOME/lib/xmltoolkit.jar
```

5. Edit the `SetDomainTypeData` script.

Here, *DomainType* is the type of the domain. For example, depending on the configuration of your domain, locate and edit the `SetwliDomainData` or `SetEaiDomainData` script.

- On a Windows system:

For example, edit the `DOMAIN_HOME\SetwliDomainData.cmd` file.

Replace the line:

```
set SVRCP=%WLISERVERCP%;%CMNCP%
```

with

```
set
```

```
SVRCP=%WLI_HOME%\lib\xmltoolkit.jar;%WLISERVERCP%;%CMNCP%
```

- On a UNIX: system:

For example, edit the `DOMAIN_HOME/SetwliDomainData` file.



Replace the line:

```
SVRCP=$WLISERVERCP:$CMNCP
```

with

```
SVRCP=$WLI_HOME/lib/xmltoolkit.jar:$WLISERVERCP:$CMNCP
```

## Step 5. Updating the BEA License

The BEA WebLogic Adapter for Oracle Applications cannot be used without a valid software license. If you have downloaded the adapter for evaluation, you must obtain an evaluation license as described on the adapter download page. If you have purchased a license for the adapter, the license file is typically sent to you as an e-mail attachment.

When you have obtained a valid license for the adapter, update your `license.bea` file by completing the following steps:

1. Save the license file that you obtained with a name other than `license.bea`, in the `BEA_HOME` directory. For example, save the file as `oracleapps_adapter_license.bea`. Use this file as the `license_update_file` in step 4 of this procedure.

**Warning:** Do not overwrite or change the name of the existing `license.bea` file.

2. Perform the step appropriate for your platform:
  - On a Windows system, open an MS-DOS session and go to the `BEA_HOME` directory.
  - On a UNIX system, go to the `BEA_HOME` directory.
3. If it is not already included, add the JDK to your `PATH` variable by executing the command appropriate to your system:
  - On a Windows system:

```
set PATH=BEA_HOME\jdk131_03\bin;%PATH%
```
  - On a UNIX system:

```
PATH=BEA_HOME/jdk131_03/bin:$PATH
export PATH
```

4. Merge the license update file into your existing license by executing the command appropriate to your system:

- On a Windows system:

```
UpdateLicense license_update_file
```

- On a UNIX system:

```
sh UpdateLicense.sh license_update_file
```

Here, *license\_update\_file* is the name to which you saved the license update file in step 1.

5. Save a copy of your updated `license.bea` file in a safe place outside the WebLogic Integration and application installation directories.

## Step 6. Deploying the Adapter Using the WebLogic Server Console

After the BEA WebLogic Adapter for Oracle Applications is installed, it must be deployed to WebLogic Server for your domain (for example, `wl1domain`). To configure and deploy an adapter using the WebLogic Server Administration Console, complete the following steps:

1. Start WebLogic Server.
2. Start the WebLogic Server Administration Console in a browser using the following URL:

```
http: //localhost:port/console/
```

Here, *localhost* represents the machine on which WebLogic Server is running and *port* represents the listening port.

For example, `http://localhost:7001/console/`

3. When prompted, enter the user name and password for the server.

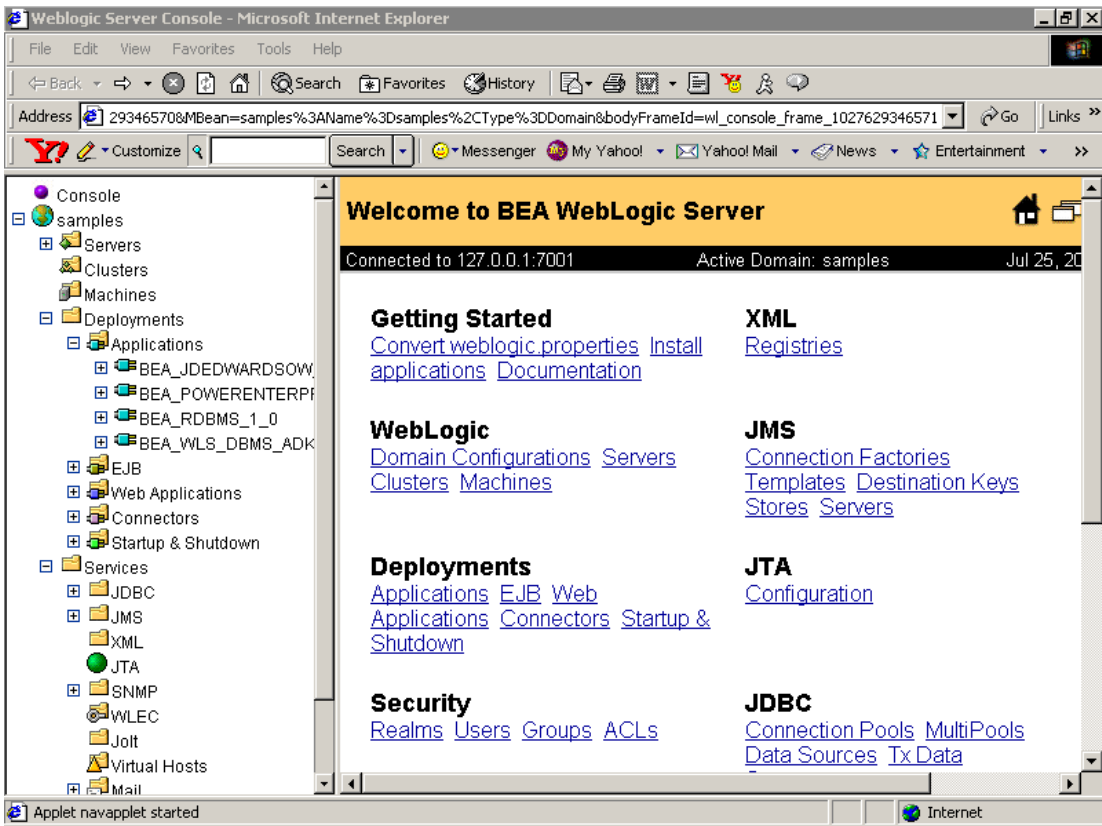
## Step 6. Deploying the Adapter Using the WebLogic Server Console

**Note:** If you have not updated the default login, see “WebLogic Integration Users and Passwords” in *Starting, Stopping, and Customizing WebLogic Integration* at the following URL:

[http://edocs.bea.com/wlintegration/v2\\_1sp/config/getstart.htm](http://edocs.bea.com/wlintegration/v2_1sp/config/getstart.htm)

The WebLogic Server Administration Console opens.

**Figure 1-1 WebLogic Server Console**

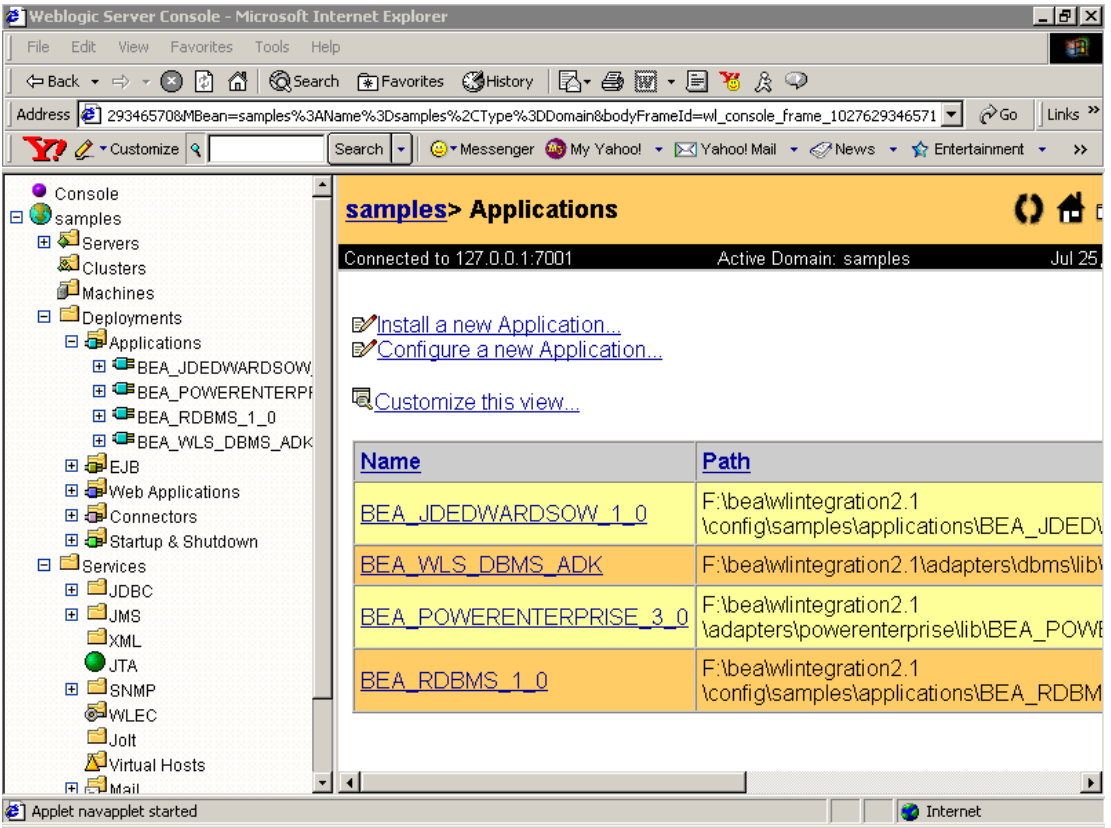


4. In the left pane, choose Deployments and then Applications from the navigation tree.

The console displays the Applications window.

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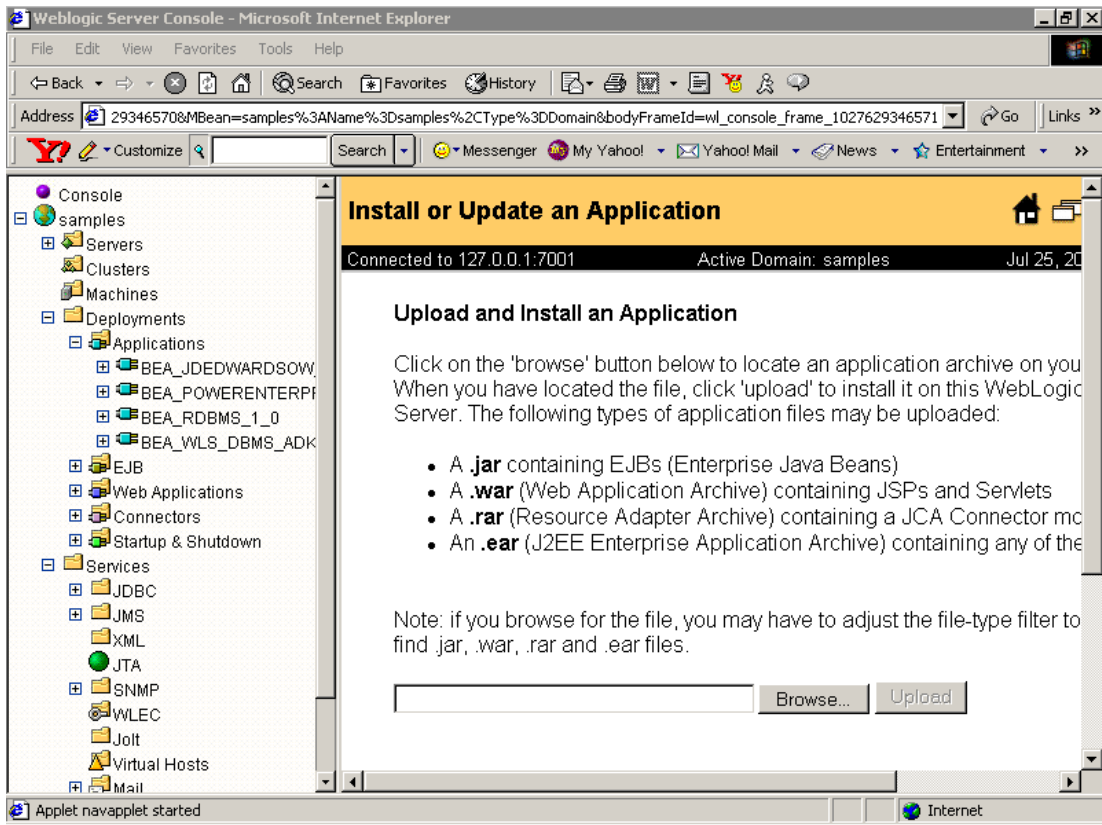
**Figure 1-2 Applications Window**



5. Click the Install a new Application link.

The console displays the Install or Update an Application window.

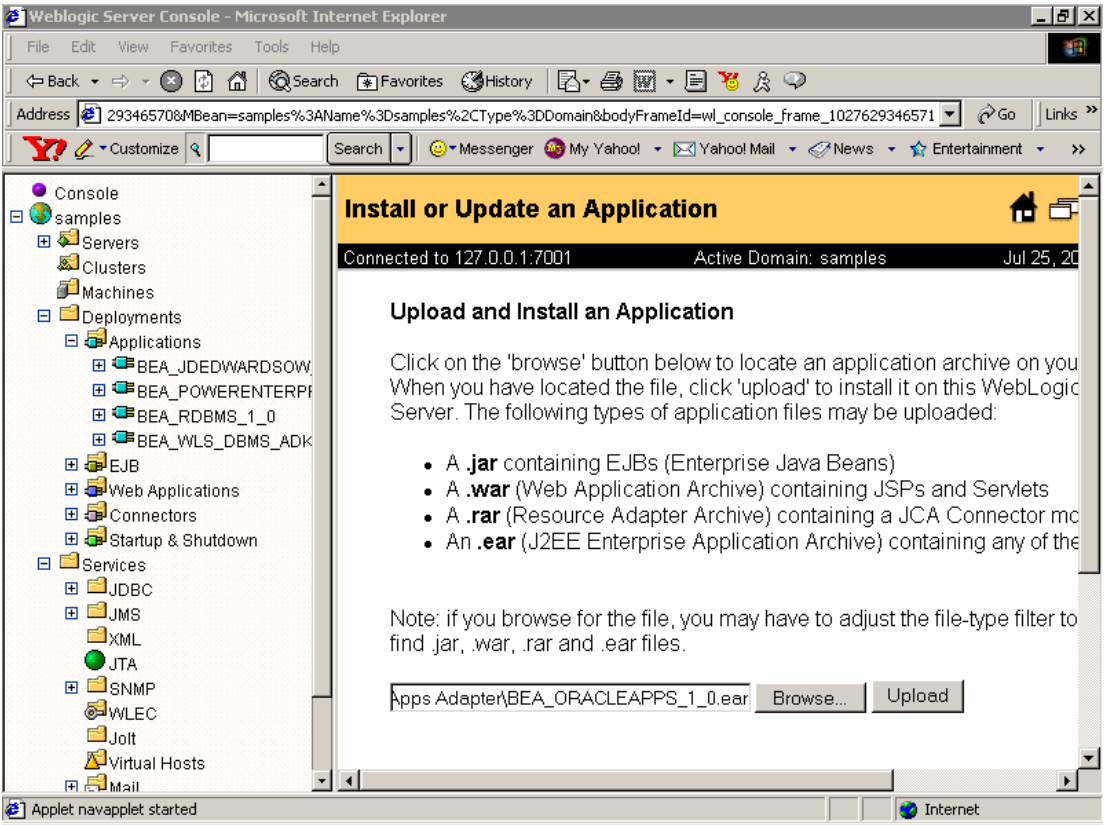
**Figure 1-3 Install or Update an Application Window**



6. Click Browse to locate the application archive you selected during installation (BEA\_ORACLEAPPS\_1\_0.ear).

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**Figure 1-4 Locating the Application Archive Window**



7. Click Upload to upload the BEA\_ORACLEAPPS\_1\_0.ear file.

The console displays the application files currently installed to indicate that the upload is complete and the adapter file is deployed to WebLogic Server.

8. You can verify deployment by viewing the adapter configuration, as follows:
  - a. Choose Deployments and then Applications from the navigation tree.
  - b. Click the BEA\_ORACLEAPPS\_1\_0.ear file link.

## Step 7. Adding the Administrative Server User Name to the Adapter Group

A user group, `adapter`, is defined in each domain that supports application integration functionality. Before you create an application view that employs the events or services supported by an adapter, you must add the user name defined for the administrative server to the `adapter` group.

**Note:** By default, the `adapter` group includes the user `system`. If the user name defined for the administrative server is `system`, skip this step. For example, if you are starting the server in a preconfigured domain, and you have not modified the default administrative server login, you can skip this step.

To add the administrative server user name to the `adapter` group, complete the following steps:

1. In the left pane of the WebLogic Server Administration Console, choose Security and then Groups from the navigation tree.

The console displays groups currently defined for the domain.

2. Locate and click the link for the `adapter` group to display the group definition.

Figure 1-5 Group Definition

The screenshot shows the WebLogic Server Administration Console interface. The breadcrumb navigation at the top reads: [eaidomain](#) > [Realms](#) > [myRealm](#) > [Groups](#). The status bar indicates "Connected to localhost:7001", "Active Domain: eaidomain", and the date/time "Sep 10, 2002 7:18:19 PM EDT". The BEA logo is in the top right corner. The main content area is titled "Group" and displays the definition for the "adapter" group. It includes a "Name:" field with the value "adapter". Below this is a "Members:" section with the text "(select to remove)" and a list of users: ☐ [joe](#), ☐ [system](#), ☐ [guest](#), ☐ [hub](#), ☐ [wlpisystem](#), ☐ [mary](#), ☐ [wlcssystem](#), ☐ [admin](#), and ☐ [wlcSamplesUser](#). There are two input fields: "Add Users:" and "Add Groups:". An "Apply" button is located at the bottom right of the form.

3. If the administrative server user name is not included in the Members list, enter the user name in the Add Users field.
4. Click Apply to add the user name to the group.  
The name is added to the Members list.

## Step 8. Installing Stored Procedures

The BEA WebLogic Adapter for Oracle Applications requires several stored procedures under the Apps Schema in the Oracle Database. These stored procedures execute the concurrent processes. Concurrent processes move data from the Oracle Apps interface tables to the Oracle Apps base tables.

To install the stored procedures, you must access Oracle SQL\*Plus.

1. Locate the BEA\_OracleAPPS\_Samples.ZIP file that was part of the installation.
2. Use WinZip (or another similar extracting product) to extract the BEA\_CREATE\_SPCONC1.SQL and BEA\_CREATE\_SPCONC2.SQL scripts.
3. Login to Oracle using SQL\*Plus.

For user name, enter the Oracle Application APPS USERID.

You must run these scripts under the APPS Userid/Schema.

4. In SQL\*Plus:
  - a. Choose File→Open.
  - b. Select the BEA\_CREATE\_SPCONC1.SQL script from the location that it was extracted to.
5. When the script is finished loading, press "/" and then press Enter.
6. Repeat steps 4 and 5 for the BEA\_CREATE\_SPCONC2.SQL script.
7. When you are returned to the sql> prompt, enter exit to return to the operating system.



8. Ensure that the scripts run with no compilation errors reported by the Oracle system.

## Next Steps

If you have not already installed the BEA Application Explorer, install it now. See the *BEA Application Explorer Installation and Configuration Guide*.

When you have successfully deployed the adapter and installed the BEA Application Explorer, you can log on to the WebLogic Integration Application View Console to create application views that employ events and services supported by the BEA WebLogic Adapter for Oracle Applications. For more information, see the BEA WebLogic Adapter for Oracle Applications *User Guide*.

