



BEA WebLogic Process Integrator

A Component of BEA WebLogic Integration

Installing and Configuring BEA WebLogic Process Integrator

BEA WebLogic Process Integrator Release 2.0
Document Edition 2.0
July 2001

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Installing and Configuring BEA WebLogic Process Integrator

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About This Document

This document explains how to install BEA WebLogic Process Integrator™, how to configure a database server to run the WebLogic Process Integrator application, and how to configure WebLogic Process Integrator after installation. It is organized as follows:

- Chapter 1, “Getting Started,” provides an overview of package contents and hardware and software requirements for BEA WebLogic Process Integrator.
- Chapter 2, “Installing BEA WebLogic Process Integrator,” provides instructions for all the steps you need to perform before running BEA WebLogic Process Integrator, including installing WebLogic Process Integrator, installing the software license, and setting up database tables.
- Chapter 3, “Starting and Stopping BEA WebLogic Process Integrator Components,” provides a list of default users and passwords, and gives instructions for stopping and starting the BEA WebLogic Process Integrator server and Studio and Worklist client applications.
- Chapter 4, “Configuring and Customizing BEA WebLogic Process Integrator,” describes the procedures for configuring WebLogic Process Integrator for use in a clustered environment, setting up custom JMS queues, configuring JDBC and Mail Session properties, updating server and client environment settings, and configuring an alternate security realm.
- Chapter 5, “Uninstalling BEA WebLogic Process Integrator,” provides instructions for uninstalling BEA WebLogic Process Integrator server and client components.
- Appendix A, “WebLogic Process Integrator Sample Configuration Files,” provides sample configuration files for BEA WebLogic Process Integrator.

e-docs Web Site

BEA product documentation is available on the BEA corporate Web site. From the BEA Home page, click on Product Documentation or go directly to the “e-docs” Product Documentation page at <http://e-docs.bea.com>.

How to Print the Document

You can print a copy of this document from a Web browser, one file at a time, by using the File→Print option on your Web browser.

A PDF version of this document is available on the BEA WebLogic Process Integrator documentation Home page on the e-docs Web site (and also on the documentation CD). You can open the PDF in Adobe Acrobat Reader and print the entire document (or a portion of it) in book format. To access the PDFs, open the BEA WebLogic Process Integrator documentation Home page, click the PDF files button, and select the document you want to print.

If you do not have the Adobe Acrobat Reader, you can get it for free from the Adobe Web site at <http://www.adobe.com/>.

Related Information

The BEA WebLogic Process Integrator document set includes the following:

- *BEA WebLogic Process Integrator Release Notes*
- *Using the BEA WebLogic Process Integrator Studio*
- *Using the BEA WebLogic Process Integrator Worklist*
- *Learning to Use BEA WebLogic Process Integrator*

-
- *Programming BEA WebLogic Process Integrator Client Applications*
 - *BEA WebLogic Process Integrator Javadoc*

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In your e-mail message, please indicate which release of the BEA WebLogic Process Integrator documentation you are using.

If you have any questions about this release of BEA WebLogic Process Integrator, or if you have problems installing and running BEA WebLogic Process Integrator, contact BEA Customer Support through BEA WebSupport at **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.

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 release of the product you are using
- A description of the problem and the content of pertinent error messages

Documentation Conventions

The following documentation conventions are used throughout this document.

Convention	Item
Ctrl+Tab	Indicates that you must press two or more keys simultaneously.
<i>italics</i>	Indicates emphasis or book titles.
monospace text	Indicates code samples, commands and their options, data structures and their members, data types, directories, and filenames and their extensions. Monospace text also indicates text that you must enter from the keyboard. <i>Examples:</i> <pre>#include <iostream.h> void main () the pointer psz chmod u+w * \tux\data\ap .doc tux.doc BITMAP float</pre>
<i>monospace</i> <i>italic</i> text	Identifies variables in code. <i>Example:</i> <pre>String expr</pre>
UPPERCASE TEXT	Indicates device names, environment variables, and logical operators. <i>Examples:</i> <pre>LPT1 SIGNON OR</pre>
{ }	Indicates a set of choices in a syntax line. The braces themselves should never be typed.

Convention	Item
[]	<p>Indicates optional items in a syntax line. The brackets themselves should never be typed.</p> <p><i>Example:</i></p> <pre>buildobjclient [-v] [-o name] [-f file-list]... [-l file-list]...</pre>
	<p>Separates mutually exclusive choices in a syntax line. The symbol itself should never be typed.</p>
...	<p>Indicates one of the following in a command line:</p> <ul style="list-style-type: none"> ■ That an argument can be repeated several times in a command line. ■ That the statement omits additional optional arguments. ■ That you can enter additional parameters, values, or other information. <p>The ellipsis itself should never be typed.</p> <p><i>Example:</i></p> <pre>buildobjclient [-v] [-o name] [-f file-list]... [-l file-list]...</pre>
.	<p>Indicates the omission of items from a code example or from a syntax line. The vertical ellipsis itself should never be typed.</p>



1 Getting Started

This section describes what you need to know before you install and run BEA WebLogic Process Integrator. This topic includes the following sections:

- Checking Your Package
- Downloading the Software
- WebLogic Process Integrator Components
- Installation Prerequisites

Checking Your Package

If you purchased WebLogic Process Integrator from your local sales representative, you will find the following items in the WebLogic Process Integrator product package:

- Software CD

The software CD contains the following BEA WebLogic Process Integrator components:

- BEA WebLogic Process Integrator Server
- BEA WebLogic Process Integrator Studio
- BEA WebLogic Process Integrator Worklist

- Documentation CD

The documentation CD contains the following documents:

- *Installing and Configuring BEA WebLogic Process Integrator* (this document)
- *Learning to Use BEA WebLogic Process Integrator*
- *Using the BEA WebLogic Process Integrator Studio*
- *Using the BEA WebLogic Process Integrator Worklist*
- *BEA WebLogic Process Integrator Javadoc*
- *Programming BEA WebLogic Process Integrator Client Applications*

- Printed Documentation

- *Installing and Configuring BEA WebLogic Process Integrator* (this document)
- *BEA WebLogic Process Integrator Release Notes*

Downloading the Software

You can download BEA WebLogic Server and WebLogic Process Integrator for a 30-day evaluation from the BEA Web site at:

http://commerce.bea.com/downloads/weblogic_server.jsp.

Information about purchasing licenses for BEA products can be found at

<http://www.beasys.com/buy>.

WebLogic Process Integrator Components

BEA WebLogic Process Integrator is made up of the following components:

- BEA WebLogic Process Integrator Server
- BEA WebLogic Process Integrator Studio
- BEA WebLogic Process Integrator Worklist

The WebLogic Process Integrator server must be installed on a system hosting WebLogic Server. The WebLogic Process Integrator client applications, Studio and Worklist, can be installed on the same system or on another system that can connect to the WebLogic Process Integrator server over the network.

If you are installing WebLogic Process Integrator in a clustered environment, you will most likely need to install only the server on each of the clustered machines.

Installation Prerequisites

Before you install the components included on the BEA WebLogic Process Integrator software CD, make sure your system meets the requirements. This section provides lists of the hardware and software requirements that are both specific to individual platforms and applicable to all platforms.

Platform-Specific Requirements

The following table lists the required operating system and processor requirements.

Table 1-1 Platform-Specific Requirements

Platform	Processor	Operating System	With
Windows	Intel Pentium II or better	Windows NT 4.0	Service Pack 6 or later
		Windows 2000 Professional	
UNIX	Ultrasparc	Solaris 2.7 (from Sun Microsystems)	System patches recommended by Sun Microsystems
	PA-RISC, 100 MHz or higher	HP-UX 11.0 (from HP)	

General Requirements

The following items are required for all platforms, except as noted:

- Minimum of 256 MB of RAM
- 100 MB of free disk space
- Network connection
- Access to a CD reader (required only if you obtain BEA WebLogic Process Integrator from the product software CD rather than from the BEA Web site).
- Web browser
 - Microsoft Internet Explorer 5.x or above
 - Netscape Navigator 4.7 or above

On UNIX, install Netscape in its default installation directory. If you have installed Netscape in an alternate directory, you will need to modify the WebLogic Process Integrator client startup script. For information on this file, see “Updating Client Settings” on page 4-16.

- BEA WebLogic Process Integrator installation software and a valid BEA WebLogic Process Integrator license. (The installation software is available on CD or can be downloaded from the BEA Web site.)

- BEA WebLogic Server

You must install the full version of BEA WebLogic Server 6.0 Service Pack 2—Server with Examples—before you can install WebLogic Process Integrator 2.0.

Users should have a solid understanding of WebLogic Server 6.0 Service Pack 2 configuration and the WebLogic Server Administration Console. For detailed information, see <http://edocs.bea.com/wls/docs60>.

- EJB 2.0 Upgrade for WebLogic Server 6.0 Service Pack 2

This is available at the following BEA WebLogic Server download site:

http://commerce.bea.com/downloads/weblogic_server.jsp

Copy the `EJB20.jar` file into the `WebLogic_Server_Home/lib` directory.

- Java 2 SDK

WebLogic Server 6.0 Service Pack 2 requires Java 2 SDK, Standard Edition, v1.3. The WebLogic Server 6.0 Service Pack 2 distribution includes the required JDK.

Add the JDK to your `PATH` variable by entering one of the following commands at a command prompt:

- On a Windows system:
`set PATH=.\jdk130\bin:path`
- On a UNIX system:
`set PATH=./jdk130/bin:path`

- One of the following supported databases:

- Cloudscape 3.5.1

Cloudscape is bundled with WebLogic Server 6.0 Service Pack 2, and is automatically installed if you select the Samples option when installing WebLogic Server 6.0. The Cloudscape program files are contained in the `samples/eval/cloudscape` directory of the WebLogic Server installation.

- Sybase System 11.9.2
- Microsoft SQL Server 2000 or 7.0 Service Pack 3
- Oracle

WebLogic Server 6.0 Service Pack 2 is certified for use with Oracle 8.1.6.

BEA WebLogic Process Integrator must have access to a database server that is installed on the local network. You must also have a database server account with sufficient privileges to create a database with tables.

- JDBC driver for your database server:
 - *Cloudscape*
The Cloudscape driver is bundled with your BEA WebLogic Server distribution; the `weblogic.jar` file contains the class files.
 - *Sybase*
The jConnect Type-4 driver from Sybase is bundled with your BEA WebLogic Server distribution; the `weblogic.jar` file contains the class files.
 - *Microsoft SQL Server*
WebLogic jDriver for SQL Server, a Type-4 driver that provides connectivity to the Microsoft SQL Server, is bundled with your BEA WebLogic Server distribution; the `weblogic.jar` file contains the class files.
 - *Oracle*
The Oracle thin driver, the Type 4 driver, is bundled with your BEA WebLogic Server distribution; the `weblogic.jar` file contains the class files.

Information about the WebLogic jDrivers for WebLogic Server 6.0 Service Pack 2 can be found at <http://e-docs.bea.com/wls/docs60/jdrivers.html>.

For additional information about the Oracle and Sybase JDBC drivers, see “Using Third-Party Drivers with WebLogic Server” at <http://e-docs.bea.com/wls/docs60/jdbc/thirdparty.html>.

Clustered Environment Requirements

WebLogic Process Integrator 2.0 supports clustering. If you are installing WebLogic Process Integrator on multiple machines in a cluster, your environment must meet the following prerequisites:

- All machines in the cluster must be running the same version of WebLogic Server: WebLogic Server 6.0 Service Pack 2.
- You must install the same version of WebLogic Process Integrator—WebLogic Process Integrator 2.0—on all of the machines in the cluster.
- All machines must have access to the same database server, as described in “General Requirements.”

Procedures for setting up the cluster after you have installed WebLogic Process Integrator are given in “Configuring WebLogic Process Integrator to Run in a Clustered Environment” on page 4-2.

2 Installing BEA WebLogic Process Integrator

This section provides procedures for all the steps you must follow before you can run WebLogic Process Integrator. The required steps are:

- Installing WebLogic Process Integrator Components
- Installing Your Software License
- Setting Up the WebLogic Process Integrator Tables
- Setting Up the WebLogic Integration XML Repository Tables (if you have not yet installed another WebLogic Integration product)

Installing WebLogic Process Integrator Components

You can install WebLogic Process Integrator from the CD-ROM included in the product package, or you can download the software from the BEA Web site as described in “Downloading the Software” on page 1-2.

If you are installing WebLogic Process Integrator on a graphics (windowing) terminal or workstation, you should use the installation program. Follow the procedures given in the next section, “Installing on UNIX or Windows Platforms in Graphics Mode.”

If you want to install WebLogic Process Integrator on a UNIX system in text mode, see “Installing on UNIX Platforms in Console Mode” on page 2-12.

Note: If you are upgrading from a previous version of WebLogic Process Integrator, do not uninstall the older version until you have WebLogic Process Integrator 2.0 up and running. You will need files from your previous installation for database migration. For more information, see “Migrating an Existing WebLogic Process Integrator Database” on page 2-17.

Installing on UNIX or Windows Platforms in Graphics Mode

To run the BEA WebLogic Process Integrator installation program:

1. Do one of the following:
 - On a Windows platform, if you are installing from CD, click on the CD drive, navigate to the NT folder, then double-click `install.exe` to run the installation program.
 - On a Windows platform, if you downloaded the installer from the BEA Web site, navigate to the folder in which you saved the file, then double-click `install.exe` to run the installation program.
 - On a UNIX platform, if you are installing from CD, the `daemon` `/usr/sbin/vold` should be running, and the CD should be mounted in the

/cdrom directory. (If `vold` is not running, see the instructions for mounting a CD in your UNIX administration documentation.) Go to the CD mount point and enter the following to go to the `unix` directory on the CD:

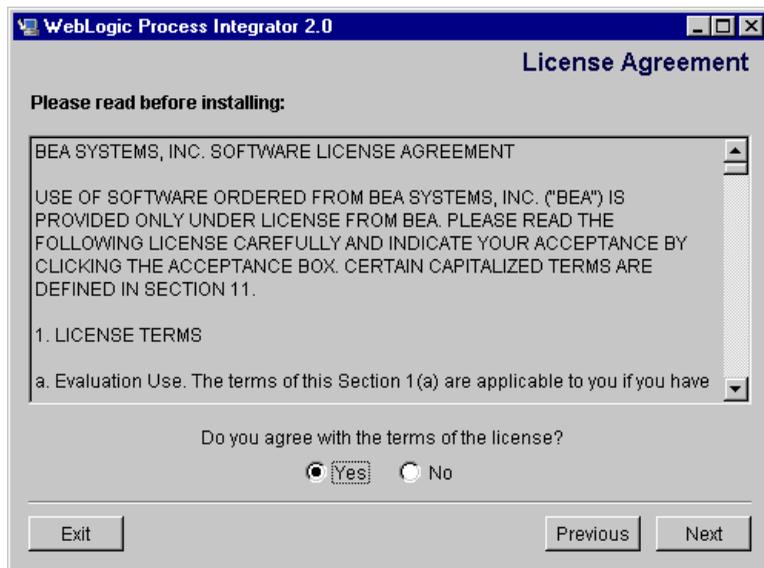
```
cd unix
```

- On a UNIX platform, if you downloaded the `install.bin` file from the BEA Web site, go to the directory to which you saved the file, and enter `install.bin` at the prompt.

The InstallAnywhere splash screen appears, followed by the BEA WebLogic Integration splash page, and the BEA WebLogic Process Integrator 2.0 Introduction page.

2. Click Next. The License Agreement window is displayed.

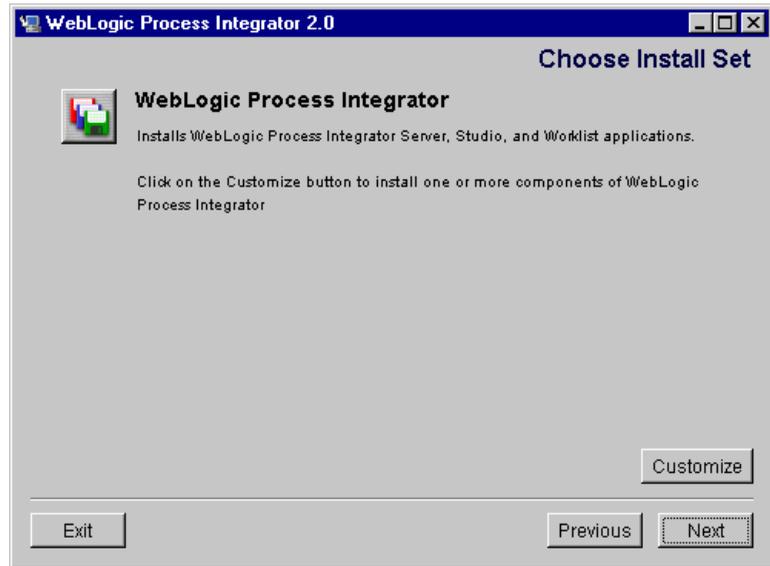
Figure 2-1 License Agreement Window



3. Review the license agreement, using the scroll bar to display the text.
4. Select the Yes option to accept the license agreement.
5. Click Next. The Important Information dialog box is displayed. Review the installation requirements, using the scroll bar to display the text.

6. Click Next to acknowledge that you have read and understood the requirements for WebLogic Process Integrator. The Choose Install Set dialog box is displayed.

Figure 2-2 Choose Install Set Dialog Box



By default, the WebLogic Process Integrator installation program installs the following components:

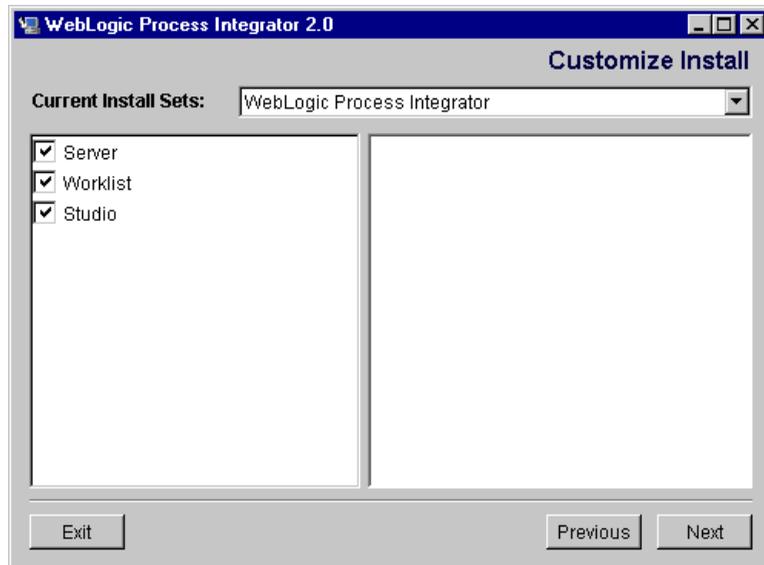
- BEA WebLogic Process Integrator Server
- BEA WebLogic Process Integrator Studio
- BEA WebLogic Process Integrator Worklist

It is not necessary, however, to install all components on the same system. Although the WebLogic Process Integrator server must be installed on a system hosting WebLogic Server, the WebLogic Process Integrator client applications, Studio and Worklist, can be installed on the same system or on another system that can connect to the WebLogic Process Integrator server over the network.

If you are installing WebLogic Process Integrator in a clustered environment, you will most likely need to install only the server on each of the clustered machines.

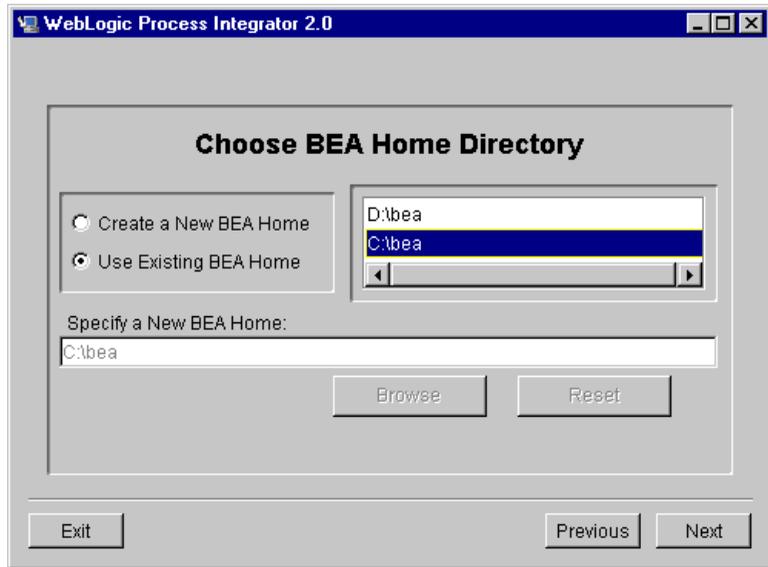
7. Do one of the following:
 - To install all components on the same system, click Next.
 - To customize the installation, click Customize. The Customize Install dialog box is displayed as shown in the following figure.

Figure 2-3 Customize Install Dialog Box



8. Select or deselect the check boxes to request the installation of the components you want, and click Next. The Choose BEA Home Directory dialog box is displayed.

Figure 2-4 Choose BEA Home Directory Dialog Box



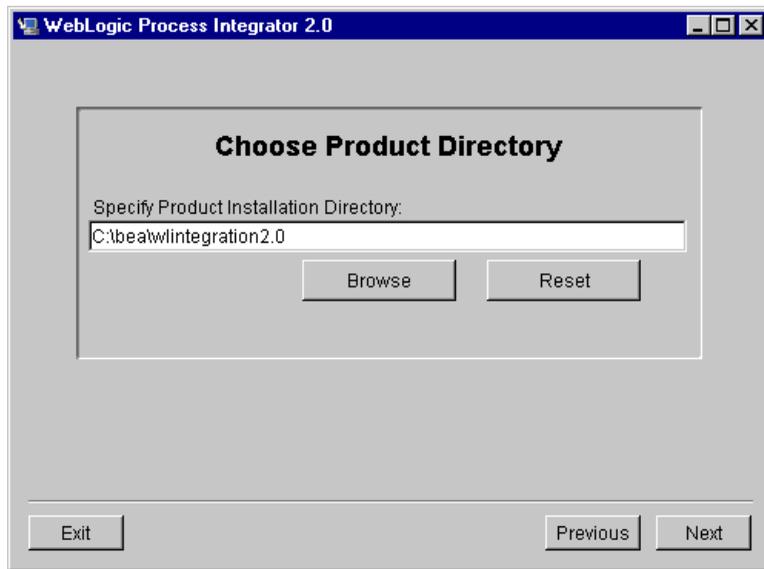
We recommend that you use the existing BEA Home directory. For a detailed description of how the BEA Home directory is used in WebLogic Server 6.0, see “BEA Home Directory” at the following URL:

<http://e-docs.bea.com/wls/docs60/install/instpre.html>

Note: You must select a drive or directory in which WebLogic Server 6.0 is installed.

9. To specify the BEA Home directory and installation location, do one of the following:
 - Select an existing directory by selecting Use Existing BEA Home (recommended).
 - Assign a new directory by selecting Create a New BEA Home. You can accept the default presented in the Specify a New BEA Home field, enter a new location, or select Browse to find and designate an existing directory as the BEA Home directory.
10. Click Next. The Choose Product Directory dialog box is displayed.

Figure 2-5 Choose Product Directory Dialog Box



11. Do one of the following:

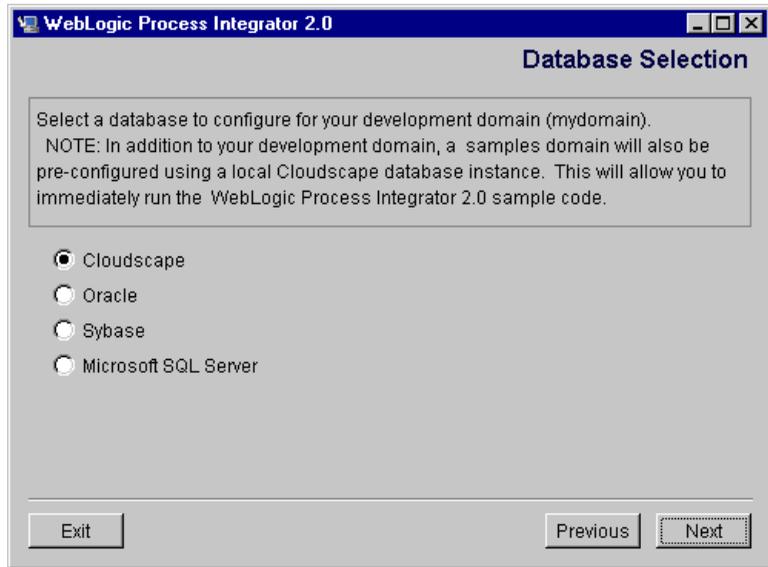
- Accept the default directory (recommended).
- Click Browse to select an existing directory.
- Type a new directory in the Specify Product Installation Directory field.

When the installation is complete, WebLogic Process Integrator creates a home directory called `processintegrator`.

12. Click Next. One of the following is displayed:

- If you are performing a client-only installation, the installation begins. Go to step 20.
- If you are performing a server installation, the Database Selection dialog box is displayed.

Figure 2-6 Database Selection Dialog Box



As part of WebLogic Integration 2.0, the WebLogic Process Integrator 2.0 server installation creates two domains:

- *Samples*

The WebLogic Process Integrator installation automatically provides a preconfigured Cloudscape database for your Samples domain. The database also includes tables for the XML repository, in which XML entities are stored for common access by all WebLogic Integration 2.0 products. The database is called `db` and is located in the `WebLogic Integration 2.0 repository/cloudscape` directory. You can run WebLogic Process Integrator in the Samples domain without any additional set-up.

Note: You need to have selected a full installation of WebLogic Server 6.0 Service Pack 2 (Server with Examples) if you want to use the default Samples database.

- *Mydomain*

This is the domain you should use for development and production. To use this domain, you must set up WebLogic Process Integrator and repository tables on your database server before you can run the WebLogic Process

Integrator server. You must select the same database for all WebLogic Integration products you are installing.

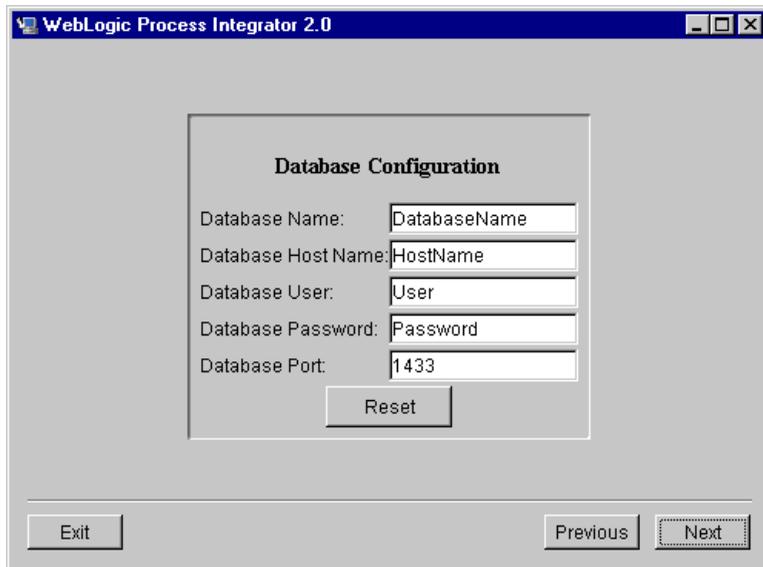
If you choose Cloudscape for Mydomain, this domain will point to the same database that is automatically configured in the Samples domain. You do not need to perform any additional setup, unless you want to create an alternate Cloudscape development domain. Procedures for doing so are provided in “Setting Up an Alternate Cloudscape Database” on page 4-17.

13. Select the option for the database you want to use for Mydomain.

14. Click Next. One of the following is displayed:

- If you selected Cloudscape, the MailSession Configuration dialog box is displayed. Go to step 16.
- If you selected any other database, the Database Configuration dialog box is displayed, automatically providing any settings you have specified during a previous WebLogic Integration installation.

Figure 2-7 Database Configuration Dialog Box



15. Do one of the following:

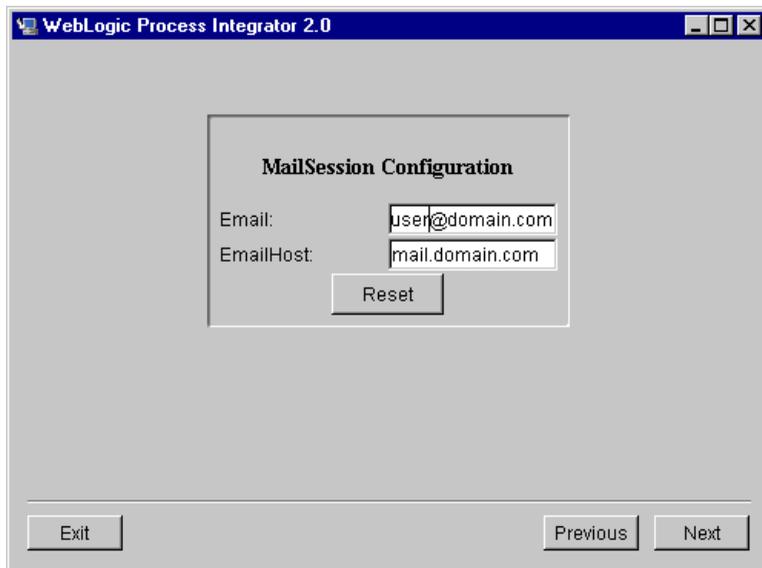
- If you have installed another WebLogic Integration product, and want to keep the settings, click Next. Go to step 16.
- If WebLogic Process Integrator is the first WebLogic Integration product you are installing, or if you want to override previous installation information, enter database configuration information as described in the following table.

Table 2-1 Database Server Configuration Information

Parameters	Description
Database HostName	The name of the server machine hosting the database.
Database/Service Name	The database or service name for the database that will contain the WebLogic Process Integrator and repository tables (these must be the same). Note: All WebLogic Integration products must use the same database name.
Database User	The account login name required for connecting to the database server.
Database Password	The password required for connecting to the database server.
Database Port	The port to be used to connect to the server. The default settings are: Oracle: 1521 Sybase: 5000 Microsoft SQL Server: 1433

16. When you have entered all the required information, click Next. The MailSession Configuration dialog box is displayed.

Figure 2-8 MailSession Configuration Dialog Box



The settings you specify in this screen enable WebLogic Process Integrator to send e-mail from workflow instances. If you do not have mail session information available, you can configure these settings after installation. For information, see “Customizing Mail Session Settings” on page 4-13.

17. If you want to configure your mail session properties now, enter values in the fields as described in the following table.

Table 2-2 Mail Session Configuration Information

Parameters	Description
Email	The e-mail address from which e-mail can be sent from a WebLogic Process Integrator workflow.
Email Host	The domain name for the default mail or SMTP server.

Note: Depending on your e-mail server, you can also configure other mail session options after installation. For more information, see “Customizing Mail Session Settings” on page 4-13.

18. Click Next. The Confirm Database Selection dialog box appears.
19. Confirm your database selection and begin the installation by clicking Install. The Installation Status page is displayed.
When installation is complete, the Installation Complete window is displayed.
20. Click Done to dismiss the Installation Complete window.
21. Go to “Installing Your Software License” on page 2-14.

Installing on UNIX Platforms in Console Mode

This section provides the information you need to install WebLogic Process Integrator on a UNIX system in console mode. The text-based console-mode program mimics the graphical installation program.

To install WebLogic Process Integrator on a UNIX system in console mode:

1. Do one of the following:
 - If you are installing from CD, go to the CD mount point.
Note: If the daemon `/usr/sbin/vold` is running, the CD should be mounted in the `/cdrom` directory. If `vold` is not running, see the instructions for mounting a CD in your UNIX administration documentation.
 - If you downloaded the `install.bin` file from the BEA Web site, go to the directory in which you saved the file.
2. Start the installation by entering the following command at the prompt:

```
sh install.bin -i console
```

Introductory information is displayed.
3. Press Enter to continue. The license agreement is displayed.
4. Review the agreement, and then enter `y` to accept the terms. You are prompted to select the components to be installed.

5. Do one of the following:

- Enter 1 to install the Server, Worklist, and Studio.
- Enter 2 to customize the installation, and then enter a comma-separated list of numbers indicating the components to install (1=Server, 2=Worklist, 3=Studio).

You are prompted to choose a BEA Home directory.

6. Enter 1 to create a new BEA Home directory or enter 2 (recommended) to use an existing BEA Home directory. You are prompted with one of the following:

- If you opted to use an existing directory, you are prompted to select the number corresponding to the desired directory. Enter the appropriate number.
- If you opted to create a directory, you are prompted to enter the pathname for the new directory. Enter the full pathname.

You are prompted to choose a directory in which to install WebLogic Process Integrator.

7. Do one of the following:

- Enter 2 to accept the current location (recommended).
- Enter 1 to modify the location. When prompted, enter the full path for the desired location.

You are prompted to select a database.

8. Enter one of the following selections:

- Enter 1 for Oracle.
- Enter 2 for Sybase.
- Enter 3 for Cloudscape.

If you selected Oracle or Cloudscape, do the following:

- a. At the `Database Host Name` prompt, enter the name of the server machine hosting the database.
- b. At the `Database/Service Name` prompt, enter the database or service name for the database that will contain all WebLogic Integration 2.0 tables.
- c. At the `Database User` prompt, enter the account login name required for connecting to the database server.

- d. At the `Database Password` prompt, enter the password required for connecting to the database server.
 - e. At the `Database Port` prompt, enter the port to be used to connect to the server.
9. At the `Email` prompt, enter the e-mail address from which e-mail can be sent from a WebLogic Process Integrator workflow.
 10. At the `EmailHost` prompt, enter the domain name for the default mail or SMTP server.

The installation program copies the necessary files and updates the configuration as required. A message indicating that the installation is complete is displayed when the process is complete.
 11. Press `Enter` to exit the console-mode installation program.
 12. Go to “Installing Your Software License.”

Installing Your Software License

The components of WebLogic Integration cannot be used without a valid software license. A 30-day license file is automatically installed when you install the first WebLogic Integration component. When you purchase the software, a permanent WebLogic Integration license file will be provided to you by BEA. Follow the directions below to update your license file on the target system.

To install your software license:

1. Save the license file from the appropriate diskette or e-mail attachment with a name other than `license.bea`, in the BEA Home directory.
2. Open a command prompt and go to the BEA Home directory.
3. Run the Update License utility by entering one of the following:
 - On a Windows system:
`UpdateLicense license_update_filename`
 - On a UNIX system:
`sh UpdateLicense.sh license_update_filename`

4. Save a copy of your updated license file in a safe place outside the application installation directories.
5. Go to “Setting Up the WebLogic Process Integrator Tables.”

Setting Up the WebLogic Process Integrator Tables

Before you can run WebLogic Process Integrator from Mydomain, you must set up the database tables for WebLogic Process Integrator.

Note: If you choose Cloudscape for your development domain during the installation process, the domain uses the same tables that are automatically created in the Samples domain, and you do not need to configure them. If you want to set up an alternate Cloudscape database, see “Setting Up an Alternate Cloudscape Database” on page 4-17. If for any reason you need to recreate the default Samples database, you can run the `createCloudscape.cmd` (on Windows) or `createCloudscape.sh` (on UNIX) script, found in the bin directory of the WebLogic Process Integrator installation.

If you are installing WebLogic Process Integrator for the first time, go to the next section, “Creating a New WebLogic Process Integrator Database.”

If you are upgrading from a previous version of WebLogic Process Integrator, you need to migrate your database tables. Proceed to “Migrating an Existing WebLogic Process Integrator Database” on page 2-17.

If you have not yet set up the repository tables during another WebLogic Integration 2.0 installation, you also need to set these up. See the procedure in “Setting Up the WebLogic Integration XML Repository Tables.”

Note: Your WebLogic Process Integrator and repository tables must be in the same database.

Creating a New WebLogic Process Integrator Database

Before you can run BEA WebLogic Process Integrator, you must first create the required database tables on your database server.

The `ddl` subdirectory of the WebLogic Process Integrator product directory contains SQL Data Definition Language (DDL) files that are used to create the required tables.

For information on creating an alternate Cloudscape development domain database, see “Setting Up an Alternate Cloudscape Database” on page 4-17.

To create the WebLogic Process Integrator database tables:

1. On your database server, start your database administration tool, and do one of the following:
 - If you have not yet created a WebLogic Integration database, create a new database and call it, for example, WLIDB.
 - If you have already created a WebLogic Integration database during a previous installation, open that database.
2. Execute the appropriate DDL file listed in the table below. Consult your database administrator for the procedure.

Table 2-3 WebLogic Process Integrator Database Creation Scripts

To create WebLogic Process Integrator tables for this database . . .	use this DDL file . . .
Oracle 8.1.6	<code>wlpi_oracle.ddl</code>
Microsoft SQL Server 7.0 with Service Pack 3 or Microsoft SQL Server 2000	<code>wlpi_mssql.ddl</code>
Sybase System 11.9.2	<code>wlpi_sybase.ddl</code>

3. If you have not installed another WebLogic Integration 2.0 product, go to “Setting Up the WebLogic Integration XML Repository Tables” on page 2-24.

Migrating an Existing WebLogic Process Integrator Database

WebLogic Process Integrator 2.0 uses a new database schema and security model. If you are using a previous version of WebLogic Process Integrator, you must migrate your existing database and security realm for compatibility with WebLogic Process Integrator 2.0.

Warning: It is strongly recommended that you migrate your WebLogic Process Integrator database before configuring any WebLogic Process Integrator 2.0 settings.

The `migrate/ddl` subdirectory of the WebLogic Process Integrator product directory contains SQL Data Definition Language (DDL) files that are used to migrate your WebLogic Process Integrator tables.

Migrating your database involves three steps:

- Migrating the database schema
- Migrating the security realm
- Setting up the repository tables (if you have not installed another WebLogic Integration product)

Note: Once you have migrated your database and security realm, you will also need to assign permissions to previously existing users and roles. This task is done in the Studio application. For basic information on default permission groups and their member users, see “Configuring Security Realms for WebLogic Process Integrator” on page 4-7 of this document. For more detailed information and procedures on assigning permissions to users and roles, see “[Administering Data](#)” in *Using the BEA WebLogic Process Integrator Studio*.

Migrating the Database Schema

To migrate your database schema:

1. Using your database administration tool, back up your existing WebLogic Process Integrator database.
2. With the WebLogic Process Integrator database open, execute the appropriate DDL file listed in the following table. Consult your database administrator for the procedure.

Table 2-4 WebLogic Process Integrator Database Migration Scripts

To migrate WebLogic Process Integrator tables for this database...	...use this DDL file
Oracle 8.1.6	wlpi_oracle_migrate.ddl
Microsoft SQL Server 7.0 with Service Pack 3 or Microsoft SQL Server 2000	wlpi_mssql_migrate.ddl
Sybase System 11.9.2	wlpi_sybase_migrate.ddl

3. Migrate the WebLogic Process Integrator security realm, as described in the following section.

Migrating the Security Realm

WebLogic Process Integrator 2.0 uses a new security model which you need to adopt in order to access Studio and Worklist functions. (For more information, see “Understanding Security” in *Using the BEA WebLogic Process Integrator Studio*.)

The `migrate/bin` directory of your WebLogic Process Integrator installation includes a utility you can use to upgrade your security realm, and an additional utility that allows you run the tutorial example without any additional setup. (For more information, see [Learning to Use BEA WebLogic Process Integrator](#).)

To use the realm migration utilities, first specify appropriate settings for your environment in two scripts and one Java properties file (all of which are provided in the `migrate/bin` directory) as described in the following procedure. Then follow the procedures for running the utility according to the version and security realm from which you are migrating.

To configure the realm migration utility scripts:

1. In the `migrate/bin` directory of your WebLogic Process Integrator 2.0 installation, open the file `migrate_realm.cmd` (for Windows) or `migrate_realm.sh` (for UNIX) in a text editor.
2. Specify the appropriate values for the `JAVA_HOME`, `WL_HOME` and `WLPI_HOME` variables. (Instructions are provided in the file.)
3. Save and close the file.
4. Optionally, from the `migrate/bin` subdirectory, open the file `Migration.properties` to customize the `DEBUG`, `URL`, `WLS_SYSTEM_PASSWORD`, and `WLPI_SUPER_USERS` variables. (Instructions are provided in the file.)

Note: If you need to assign all permissions to any existing users of your system, you can add them to the `WLPI_SUPER_USERS` variable in the `Migration.properties` file, or assign permissions in the Studio client application after migration. For information on the default users and passwords provided in a new WebLogic Process Integrator 2.0 installation, see “WebLogic Process Integrator Default Users and Passwords” on page 3-2. For information on permission groups, see “Configuring Security Realms for WebLogic Process Integrator” on page 4-7.
5. Save and close the file.
6. Optionally, if you would like to be able to run the WebLogic Process Integrator 2.0 tutorial example, go to the `migrate/bin` directory of your WebLogic Process Integrator 2.0 installation, open the file `enable_tutorial.cmd` (for Windows) or `enable_tutorial.sh` (for UNIX) in a text editor, and specify the appropriate values for the `JAVA_HOME`, `WL_HOME`, and `WLPI_HOME` variables. (Instructions are provided in the file.)
7. To run the realm migration utility, choose one of the following options:
 - If you are migrating from WebLogic Process Integrator 1.2, and the security realm you deployed is `Weblogic.Properties` realm, go to “Migrating from WebLogic.Properties Realm (WebLogic Process Integrator 1.2 Only).”
 - If you are migrating from WebLogic Process Integrator 1.2 or 1.2.1, and the security realm you deployed is `com.bea.wlpi.rdbmsrealm.RDBMSRealm`, go to “Migrating from RDBMS Realm (WebLogic Process Integrator 1.2 or 1.2.1)” on page 2-21.

- If you are migrating from WebLogic Process Integrator 1.2.1, and the security realm you deployed is File Realm, go to “Migrating from File Realm (WebLogic Process Integrator 1.2.1 Only)” on page 2-23.

Note: The following procedures assume knowledge of WebLogic Server 6.0 Service Pack 2 and the WebLogic Server Administration Console. For more information, see your WebLogic Server documentation.

Migrating from WebLogic.Properties Realm (WebLogic Process Integrator 1.2 Only)

To migrate from WebLogic.Properties Realm:

1. Start WebLogic Process Integrator server from Mydomain, as described in “Starting the WebLogic Process Integrator Server” on page 3-3.
2. Start the WebLogic Server Administration Console.
3. Choose Services→JDBC→Connection Pools→wliPool and, in the right pane, select the Configuration and General tabs.
4. Verify that the Database URL specifies your WebLogic Process Integrator 1.2 database, and modify any settings that are incorrect for this database. If you make any modifications, restart the WebLogic Process Integrator 2.0 server.
5. In the WebLogic Server Administration Console, convert the `weblogic.properties` file found in the WebLogic Process Integrator 1.2 home directory into a new domain. Use the WebLogic Server 6.0 documentation for the required procedures. After the conversion, WebLogic Server creates a new domain.
6. Shut down the WebLogic Process Integrator server.
7. Copy the `fileRealm.properties` file found in the new domain to the `config/mydomain` directory of your WebLogic Process Integrator 2.0 installation.
8. Start the WebLogic Process Integrator 2.0 server. Ignore any error messages you receive.

9. Run the realm migration utility by doing one of the following:
 - On a Windows system, from the `migrate/bin` directory, run the `migrate_realm.cmd` script.
 - On a UNIX system, go to the `migrate/bin` directory and enter the following:

```
sh migrate_realm.sh
```
10. Optionally, delete the domain generated in step 5.
11. Optionally, run the tutorial enabler utility by doing one of the following:
 - On a Windows system, from the `migrate/bin` directory, run the `enable_tutorial.cmd` script.
 - On a UNIX system, go to the `migrate/bin` directory and enter the following:

```
sh enable_tutorial.sh
```
12. If you have not yet set up the WebLogic Integration repository tables, shut down the WebLogic Process Integrator server, and go to “Setting Up the WebLogic Integration XML Repository Tables” on page 2-24.

Migrating from RDBMS Realm (WebLogic Process Integrator 1.2 or 1.2.1)

To migrate from RDBMS Realm:

1. Start the WebLogic Process Integrator server in Mydomain, as described in “Starting the WebLogic Process Integrator Server” on page 3-3.
2. Start the WebLogic Server Administration Console.
3. Choose Security→Realms→wlpiRDBMSRealm, and in the right pane, select the Configuration and Schema tabs.
4. Back up the Schema Properties by copying the text to a temporary file.
5. In the `migrate` directory of your WebLogic Process Integrator installation, open the file `rdbmsrealm_migration_schema.txt` in a text editor.
6. Copy the text from the `rdbmsrealm_migration_schema.txt` file and paste it into the Schema Properties window in the Administration Console, overwriting the original text. Click Apply.

7. In the right pane, select the Database tab.
8. Verify that the Database URL specifies your WebLogic Process Integrator 1.2 or 1.2.1 database, and modify any settings that are incorrect for this database. If you make any modifications, restart the WebLogic Process Integrator 2.0 server.
9. Choose Security→Realms→wlpiRDBMSRealm, and in the right pane, select the Configuration and Schema tabs.
10. In the Basic Realm drop-down list, select wlpiCachingRealm.
11. Choose Services→JDBC→Connection Pools→wliPool and, in the right pane, select the Configuration and General tabs.
12. Verify that the Database URL specifies your WebLogic Process Integrator 1.2 or 1.2.1 database, and modify any settings that are incorrect for this database.
13. Shut down the WebLogic Process Integrator 2.0 server.
14. From the `config/mydomain` subdirectory of your WebLogic Process Integrator installation, open the startup script file, `startmydomain.cmd` (on Windows) or `startmydomain.sh` (on UNIX), in a text editor.
15. Before the `%WLPI_HOME%\lib\rdbmsrealm.jar` section of the `CLASSPATH` setting, add the following:

```
%WLPI_HOME%\lib\olldrdbmsrealm.jar;
```
16. Save the file.
17. Start the WebLogic Process Integrator 2.0 server. Ignore any error messages you may receive.
18. Run the realm migration utility by doing one of the following:
 - On a Windows system, from the `migrate/bin` directory, run the `migrate_realm.cmd` script.
 - On a UNIX system, go to the `migrate/bin` directory and enter the following:

```
sh migrate_realm.sh
```
19. Start the WebLogic Server Administration Console.
20. Choose Security→Realms→wlpiRDBMSRealm, and in the right pane, select the Configuration and Schema tabs.

21. Copy the text from the temporary file you created in step 4 and paste it into the Schema Properties in the Administration Console, overwriting the original text. Click Apply.
22. Shut down the WebLogic Process Integrator 2.0 server.
23. In the server startup script file, remove the text you added to the `CLASSPATH` setting in step 15, and save the file.
24. Start the WebLogic Process Integrator 2.0 server.
25. Optionally, run the tutorial enabler utility by doing one of the following:
 - On a Windows system, from the `migrate/bin` directory, run the `enable_tutorial.cmd` script.
 - On a UNIX system, go to the `migrate/bin` directory and enter the following:

```
sh enable_tutorial.sh
```
26. If you have not yet set up the WebLogic Integration repository tables, shut down WebLogic Process Integrator server, and go to “Setting Up the WebLogic Integration XML Repository Tables” on page 2-24.

Migrating from File Realm (WebLogic Process Integrator 1.2.1 Only)

To migrate from File Realm:

1. Start the WebLogic Process Integrator server in Mydomain, as described in “Starting the WebLogic Process Integrator Server” on page 3-3.
2. Start the WebLogic Server Administration Console.
3. Choose Services→JDBC→Connection Pools→wliPool and, in the right pane, select the Configuration and General tabs.
4. Verify that the Database URL specifies your WebLogic Process Integrator 1.2.1 database, and modify any settings that are incorrect for this database.
5. Shut down the WebLogic Process Integrator 2.0 server.
6. Copy the file `fileRealm.properties` from the WebLogic Process Integrator 1.2.1 domain to the `config/mydomain` directory of your WebLogic Process Integrator 2.0 installation.

7. Start the WebLogic Process Integrator 2.0 server. Ignore any messages you may receive.
8. Run the realm migration utility by doing one of the following:
 - On a Windows system, from the `migrate/bin` directory, run the `migrate_realm.cmd` script.
 - On a UNIX system, go to the `migrate/bin` directory and enter the following:

```
sh migrate_realm.sh
```
9. Optionally, run the tutorial enabler utility by doing one of the following:
 - On a Windows system, from the `migrate/bin` directory, run the `enable_tutorial.cmd` script.
 - On a UNIX system, go to the `migrate/bin` directory and enter the following:

```
sh enable_tutorial.sh
```
10. If you have not yet set up the WebLogic Integration repository tables, shut down WebLogic Process Integrator server, and go to “Setting Up the WebLogic Integration XML Repository Tables.”

Setting Up the WebLogic Integration XML Repository Tables

If WebLogic Process Integrator is the first WebLogic Integration 2.0 product you are installing, you also need to create the tables for the common XML repository for your development domain, regardless of whether you have created a new WebLogic Process Integrator database or migrated from an existing one.

If you have already configured the XML repository tables during a previous WebLogic Integration installation, you do not need to perform this step.

Note: If you chose Cloudscape as the database for your development domain, this step has already been done for you automatically by the installation program.

Your WebLogic Integration 2.0 installation includes scripts you can run to create the repository tables automatically.

To create the XML repository database tables:

1. On your database server, use your database administration tool to open your WebLogic Integration database.
2. Execute the appropriate script by doing one of the following:
 - On a Windows system, go to the appropriate directory listed in the following table, and run the `createDB.cmd` script.
 - On a UNIX system, go to the appropriate directory listed in the following table, and enter the following:

```
sh createDB.sh
```

Table 2-5 WebLogic Integration 2.0 Repository Database Creation Scripts

To create repository tables for this database . . .	use the <code>createDB.cmd</code> (Windows) or <code>createDB.sh</code> (UNIX) script file in this directory . . .
Oracle 8.1.6	<code>wlintegration2.0/repository/oracle</code>
Microsoft SQL Server 7.0 with Service Pack 3 or Microsoft SQL Server 2000	<code>wlintegration2.0/repository/mssql</code>
Sybase System 11.9.2	<code>wlintegration2.0/repository/sybase</code>

When the script has finished running, the tables are created.

You are now ready to start running the WebLogic Process Integrator components. For information on starting and logging on to the WebLogic Process Integrator server and client applications, go to the next section, “Starting and Stopping BEA WebLogic Process Integrator Components.”

3 Starting and Stopping BEA WebLogic Process Integrator Components

This topic includes the following sections:

- WebLogic Process Integrator Default Users and Passwords
- Starting the WebLogic Process Integrator Server
- Starting the WebLogic Process Integrator Studio
- Starting the WebLogic Process Integrator Worklist
- Stopping the WebLogic Process Integrator Server
- Stopping the WebLogic Process Integrator Studio or Worklist

WebLogic Process Integrator Default Users and Passwords

When you create the WebLogic Process Integrator database tables as described in “Creating a New WebLogic Process Integrator Database” on page 2-16, the users and passwords shown in the following table are defined by default.

Table 3-1 Default User Names and Passwords

User Name	Password
system	security
admin	security
mary	password
joe	password
wlpisystem	wlpisystem
wlcsystem	wlcsystem

In the new security model for WebLogic Process Integrator 2.0, all these users have been assigned all permissions, except the user system. When you start WebLogic Process Integrator, you boot the WebLogic Server as the system user. To access WebLogic Process Integrator client application functions, you can use any of the other users, if you are not yet set up as an authorized user.

If you want to update users, passwords and permissions, you should note the following information:

- You can create WebLogic Process Integrator users and assign permissions to them in the WebLogic Process Integrator Studio.
- To change passwords for existing users, you must use the WebLogic Server Administration Console.

For more information on users, roles, and permission groups, see “Configuring Security Realms for WebLogic Process Integrator” on page 4-7, and “[Administering Data](#)” in *Using the BEA WebLogic Process Integrator Studio*.

Starting the WebLogic Process Integrator Server

You can start the WebLogic Process Integrator server in either the Samples or Mydomain domain, depending on the database to which you want to connect. Procedures for starting either server domains on Windows and UNIX platforms are given below.

Note: When you start the WebLogic Process Integrator server, WebLogic Server is started with WebLogic Process Integrator-specific settings. If WebLogic Server is already running, you must stop it before starting the WebLogic Process Integrator server.

Starting the WebLogic Process Integrator Server on Windows

To start the WebLogic Process Integrator Samples server, do one of the following:

- Choose Start→Programs→BEA WebLogic E-Business Platform→WebLogic Integration 2.0→Process Integrator→Start Samples Server.
- Go to the `config/samples` directory of your WebLogic Process Integrator installation, and run the `startsamples.cmd` script.

To start the WebLogic Process Integrator Mydomain server, do one of the following:

- Choose Start→Programs→BEA WebLogic E-Business Platform→WebLogic Integration 2.0→Process Integrator→Start Mydomain Server.

- Go to the `config/mydomain` directory of your WebLogic Process Integrator installation, and run the `startmydomain.cmd` script.

When prompted for the password to boot WebLogic Server, enter `security`. After you have entered the password, startup messages are displayed.

Note: You can change the default password for the system user in your active domain by starting the WebLogic Server Administration Console and choosing `Server→Users`.

Starting the WebLogic Process Integrator Server on UNIX

To start the WebLogic Process Integrator Samples server, go to the `config/samples` sub-directory of the WebLogic Process Integrator installation directory, and run the startup script by entering the following at the command prompt:

```
sh startsamples.sh
```

To start the Mydomain server, go to the `config/mydomain` sub-directory of the WebLogic Process Integrator installation directory, and run the startup script by entering the following at the command prompt:

```
sh startmydomain.sh
```

When prompted for the password to boot WebLogic Server, enter `security`. After you have entered the password, startup messages are displayed.

Note: You can change the default password for the system user in your active domain by starting the WebLogic Server Administration Console and choosing `Server→Users`.

Starting the WebLogic Process Integrator Studio

To start the WebLogic Process Integrator Studio on a Windows platform, do one of the following:

- Choose Start→Programs→BEA WebLogic E-Business Platform→WebLogic Integration 2.0→Process Integrator→Start Studio.
- Go to the `bin` sub-directory of your BEA WebLogic Process Integrator installation and run the `studio.cmd` script.

To start the WebLogic Process Integrator Studio on a UNIX platform, go to the `bin` subdirectory of the WebLogic Process Integrator installation directory, and enter the following:

```
sh studio.sh
```

The Logon to WebLogic Process Integrator dialog box shown in the following figure is displayed in front of the WebLogic Process Integrator Studio application window.

Figure 3-1 Logon to WebLogic Process Integrator Dialog Box



To log on to the WebLogic Process Integrator server:

1. Enter the user name and password in the appropriate fields. If you have not yet been assigned a user name and password for WebLogic Process Integrator, enter a default user name and password. For information, see “WebLogic Process Integrator Default Users and Passwords” on page 3-2.
2. In the `Server [:port]` field, specify the system that is running the WebLogic Process Integrator server application as follows:

```
t3://host:7001
```

Here `host` is the computer name or IP address of the system that is running the WebLogic Process Integrator server. Specify `localhost` if the server is running on the same computer as the Studio application.

If you are logging on to a clustered environment, you need to include all the host machines, separated by commas, with a common port. For example:

```
t3://host1, host2, host3:7001
```

Starting the WebLogic Process Integrator Worklist

To start the BEA WebLogic Process Integrator Worklist on a Windows platform, do one of the following:

- Choose Start→Programs→BEA WebLogic E-Business Platform→WebLogic Integration 2.0→Process Integrator→Start Worklist.
- Go to the `bin` sub-directory of your BEA WebLogic Process Integrator installation and run the `worklist.cmd` script.

To start the WebLogic Process Integrator Worklist on a UNIX platform, go to the `bin` sub-directory of the WebLogic Process Integrator installation directory, and enter the following:

```
sh worklist.sh
```

The Logon to WebLogic Process Integrator dialog box shown in the following figure is displayed in front of the WebLogic Process Integrator Worklist application window.

Figure 3-2 Logon to WebLogic Process Integrator Dialog Box



To log on to the WebLogic Process Integrator server:

1. Enter the user name and password in the appropriate fields. If you have not yet been assigned a user name and password for WebLogic Process Integrator, enter a default user name and password. For information, see “WebLogic Process Integrator Default Users and Passwords” on page 3-2.
2. In the `Server [:port]` field, specify the system that is running the WebLogic Process Integrator server application as follows:

```
t3://host:7001
```

Here *host* is the computer name or IP address of the system that is running the WebLogic Process Integrator server. Specify `localhost` if the server is running on the same computer as the Worklist application.

If you are logging on to a clustered environment, you need to include all the host machines, separated by commas, with a common port. For example:

```
t3://host1, host2, host3:7001
```

Stopping the WebLogic Process Integrator Server

Before stopping the WebLogic Process Integrator server, ensure that all connected clients have been shut down first.

To stop the WebLogic Process Integrator server application:

1. Activate the server application (command prompt) window.
2. Press Ctrl+C. The following prompt is displayed:
`Terminate batch job (Y/N)`
3. Press `Y` in response to the prompt. The server application (command prompt) window disappears, and the server application stops.

Stopping the WebLogic Process Integrator Studio or Worklist

To stop the WebLogic Process Integrator Studio or Worklist:

1. Choose File→Logoff from the application window.
2. Choose File→Exit from the application window.

4 Configuring and Customizing BEA WebLogic Process Integrator

This topic discusses post-installation configuration and customization options for WebLogic Process Integrator. It includes the following sections:

- Configuring WebLogic Process Integrator to Run in a Clustered Environment
- Configuring a Custom Java Message Service Queue
- Configuring Security Realms for WebLogic Process Integrator
- Customizing Database Settings
- Customizing Mail Session Settings
- Modifying Your Environment Settings
- Setting Up an Alternate Cloudscape Database

Configuring WebLogic Process Integrator to Run in a Clustered Environment

Configuring WebLogic Process Integrator to run in a cluster requires only that you properly distribute the application resources across all servers in the cluster. A WebLogic Process Integrator cluster configuration must use a master/slave architecture. All nonclusterable services are located on the master or primary server, while fully clusterable resources are located on the slave or secondary servers. The following is a list of clusterable and nonclusterable resources in WebLogic Process Integrator:

Clusterable services

- `wlpi-ejb.jar`—Contains all EJB definitions used by the WebLogic Process Integrator server
- `repository-ejb.jar`—Contains the ECI XML repository EJB definitions
- JMS Connection Factories—Can be deployed on all the servers to ensure that the JMS destinations can be located anywhere in the cluster
- MailSession—Required for sending e-mail from a workflow
- JDBC Connection Pool—Must exist on all servers for EJBs to work properly
- TxDataSource—Related to the JDBC Pool; required for proper EJB functioning

Nonclusterable services

- `wlpi-mdb.jar`—Contains Message Driven Bean (MDB) deployments
- `wlpi-master-ejb.jar`—Contains the Plug-in Manager Configuration EJB which is responsible for maintaining all plug-in configurations in the cluster
- Startup classes—Handle server initialization and timer services
- JMS Server—Defines all of the WebLogic Process Integrator JMS destinations; must be deployed on a single primary server

To take advantage of a cluster, multiple JMS servers with their own queues can be deployed on the secondary servers. You can create message-driven bean (MDB) deployments to listen to these queues so that the JMS workload can be spread out across the cluster. For more information, see “Configuring a Custom Java Message Service Queue” on page 4-5.

Configuring WebLogic Process Integrator for a clustered environment involves the following steps:

- Using the WebLogic Server Administration Console to create and configure new servers and a cluster
- Modifying the server startup scripts
- Starting the servers in the correct order

To create and configure a WebLogic Process Integrator cluster:

1. Start the WebLogic Process Integrator server in Mydomain, as described in “Starting the WebLogic Process Integrator Server” on page 3-3.
2. Start the WebLogic Server Administration Console.
3. In the navigation tree, go to Machines, and create new machines on which the managed servers will run in the cluster, using the machine names as the host names, for example, `machine1`.
4. In the navigation tree, choose Servers, and create new servers which will run as managed servers in the cluster, for example, `wlpi_server1`, which runs on `machine1`. For each managed server, specify the listener port number and IP address. The listener port numbers for all managed servers should be the same.
5. In the navigation tree, choose Cluster, and create a new cluster for the managed servers. Specify the cluster address as the IP addresses of the managed servers in the cluster, separated by commas.
6. In the right pane, select the Multicast tab, and assign a unique multicast IP address in the subnet to the cluster. This can be any IP address in which the first number is greater than or equal to 224. The multicast IP address should not be used by other applications in the subnet.
7. Add the managed servers to the cluster.

8. For the following items, select the Targets and Clusters tabs, and set the Target Clusters to the cluster you created in step 5:
 - Services→TxDataSources→TxDataSource
 - Services→Mail→wlpiMailSession
 - Services→JMS→JMS Connection Factories→wlpiFactory
 - Services→JMS→JMS Connection Factories→wlpiQueueFactory
 - Deployments→EJBs→pobean.jar
 - Deployments→EJBs→repository-ejb.jar
 - Deployments→EJBs→wlpi-ejb.jar
9. For the following items, select the Targets and Servers tabs, and set the Target Servers to a managed server you designate as the primary server:
 - Deployments→EJBs→wlpi-mdb-ejb.jar
 - Deployments→EJBs→wlpi-master-ejb.jar
 - Deployments→Startup and Shutdown→TimeProcessor
 - Deployments→Startup and Shutdown→WLPIInit

To modify the server startup scripts:

1. For the administration server, from the `config/mydomain` directory of your WebLogic Process Integrator integration, open the server startup script file, `startmydomain.cmd` (in Windows) or `startmydomain.sh` (on UNIX), in a text editor.
2. Add the following option to the command line:

```
-Dweblogic.management.discover=true
```
3. Create a managed server startup script in `config/mydomain` by copying the administration server startup script, and changing the name of the server to be started, as follows:

```
-Dweblogic.Name=the managed server name
```
4. Add an option to the script for looking up the administration server, as follows:

```
-Dweblogic.management.server=[t3://]hostname:port
```

To start the clustered servers:

1. Start the administration server.
2. Start the primary managed server.
3. Start the other managed servers.

Configuring a Custom Java Message Service Queue

You can create custom Java Message Service (JMS) queues and run the Message Driven Bean Generator utility (`MDBGenerator.cmd` on Windows and `MDBGenerator.sh` on UNIX) to generate a deployable `.jar` file that will listen on the custom queue. Configuring the custom queue involves the following steps:

- Using the WebLogic Server Administration Console to create the custom JMS queue
- Running the MDBGenerator utility to generate a message-driven bean (MDB) to listen on the queue
- Updating the WebLogic Process Integrator configuration to recognize the new MDB

For more information on creating JMS queues, see your WebLogic Server 6.0 documentation.

To create the custom JMS queue:

1. Start the WebLogic Process Integrator server in Mydomain as described in “Starting the WebLogic Process Integrator Server” on page 3-3.
2. Start the WebLogic Server Administration Console.
3. In the navigation tree, choose **JMS**→**Servers**→**JMSServer-0**→**Destinations**, and create a new **JMSQueue**, specifying a name and JNDI name for the queue. Accept the default settings for the other fields, or see your WebLogic Server 6.0 documentation for other options.

Note: Do not use any priority settings for ordered queues.

4. Shut down and restart the WebLogic Process Integrator server.
5. Once the server has restarted, verify that the queue has been created by restarting the WebLogic Server Administration Console and choosing JMS→Servers→JMSServer-0→Destinations.

To run the MDBGenerator utility:

1. Open a command prompt, and go to the `bin` sub-directory of your WebLogic Process Integrator installation.
2. At the command prompt, do one of the following:
 - On a Windows system, enter the following:

```
mdbg queue_name [-min number] [-max number] [-order number]  
[-transact] [-validate]
```

- On a UNIX system, enter the following:

```
sh mdbg.sh queue_name [-min number] [-max number] [-order number]  
[-transact] [-validate]
```

The arguments for the `mdgb` command are listed in the following table.

Table 4-1 MDBGenerator Command-Line Arguments

Argument	Description
<i>queue_name</i>	The name of the custom queue for which you want to generate the MDB.
-min <i>number</i>	The minimum number of unordered listeners.
-max <i>number</i>	The maximum number of unordered listeners.
-order <i>number</i>	The number of ordered listeners. The number must be prime and below 31.
-transact	Sets the transaction to required.
-validate	Turns on XML validation.

The `queue_name-mdb-generator.jar` file is created in the `bin` directory.

3. Move the generated file to the `lib` directory of your WebLogic Process Integrator installation.
4. From the `config/mydomain` directory of your WebLogic Process Integrator installation, open the `config.xml` file in a text editor. (A sample version of the file is provided in Appendix A, “WebLogic Process Integrator Sample Configuration Files.”)
5. Under the XML tag `<Application Name="WLPI Application" Path="lib">` after all other `<EJB Component>` elements, add the following line:

```
<EJBComponent Name="queue_name-mdb-generator.jar"
Targets="myserver" URI="queue_name-mdb-generator.jar"
DeploymentOrder="5"/>
```

Note: The `config.xml` file is case-sensitive. Be sure to enter text using the proper case.
6. Save the file.
7. Shut down and restart the WebLogic Process Integrator server.

Configuring Security Realms for WebLogic Process Integrator

WebLogic Process Integrator 2.0 uses a new security model in which:

- WebLogic Process Integrator users and groups are maintained in a BEA WebLogic Server security realm
- WebLogic Process Integrator organizations are WebLogic Process Integrator-specific entities that exist outside the security realm
- WebLogic Process Integrator roles map to WebLogic Server groups

In addition to the default users (for a list of these users, and their passwords, see “WebLogic Process Integrator Default Users and Passwords” on page 3-2), WebLogic Process Integrator 2.0 uses three types of groups:

- **Permission groups**—These define the types of operations member users can perform. The permission groups and their default member users are shown in the following table.

Table 4-2 Permission Groups and Members

Permission Group	Members
AdministerUser	admin, joe, mary, wlcsystem, wlpisystem
ConfigureComponents	admin, joe, mary, wlcsystem, wlpisystem
ConfigureSystem	admin, joe, mary, wlcsystem, wlpisystem
CreateTemplate	admin, joe, mary, wlcsystem, wlpisystem
DeleteTemplate	admin, joe, mary, wlcsystem, wlpisystem
ExecuteTemplate	admin, joe, mary, wlcsystem, wlpisystem
MonitorInstance	admin, joe, mary, wlcsystem, wlpisystem
UpdateTemplate	admin, joe, mary, wlcsystem, wlpisystem

- **System groups**—These are required by the WebLogic Process Integrator system. They are wlpiUsers, wlpiAdministrators, and everyone. System groups and their member users are listed in the following table.

Table 4-3 System Groups and Members

System Group	Members
everyone	admin, joe, system, mary, wlcsystem, wlpisystem
wlpiAdministrators	admin, joe, system, mary, wlpisystem
wlpiUsers	admin, joe, system, mary, wlcsystem, wlpisystem

- **Role groups**—These are mapped to WebLogic Process Integrator roles, and can be created automatically when you create a role in the WebLogic Process Integrator Studio. The default role groups and their member users are shown in the following table.

Table 4-4 Role Groups and Members

Role Group	Members
AccountingCDE	admin, joe
CustomerServiceCDE	admin
Role1Org1	admin, joe, mary
Role2Org1	admin, joe, mary
ShippingCDE	admin, mary

When you install WebLogic Process Integrator 2.0, the software is configured, by default, to use a file security realm, where default users, groups, and access control lists are read from the `fileRealm.properties` file in your WebLogic Process Integrator domain directory.

You can also use an `RDBMSRealm`, or an alternate security realm. (For an overview of the available WebLogic Server security realm types, see “Security Fundamentals” at <http://e-docs.bea.com/wls/docs60/security/concepts.html>) By using any of these security realms, properly configured, you can create users, organizations, and roles through the BEA WebLogic Process Integrator Studio.

To set up the `RDBMSRealm`, follow the procedure given below. To customize the `RDBMSRealm` properties, see “Customizing Database Settings” on page 4-11. To create an alternate security realm, follow the procedure given in “Configuring an Alternate Security Realm” on page 4-10.

Configuring the RDBMS Security Realm

To change the security realm from `fileRealm.properties` to `RDBMSRealm`:

1. Start the WebLogic Process Integrator server in Mydomain as described in “Starting the WebLogic Process Integrator Server” on page 3-3.
2. Start the WebLogic Server Administration Console.
3. In the navigation tree, go to Security, and in the right pane, select the General tab.

4. From the Caching Realm drop-down list, select `wlpiCachingRealm`, and click Apply.
5. Shut down the WebLogic Process Integrator server.
6. Go to the `config/mydomain` directory of your WebLogic Process Integrator installation, and back up the file `fileRealm.properties` by copying and renaming it.
7. Open the original `fileRealm.properties` file in a text editor.
8. Delete all entries beginning with `user` and `group`, and save the file.
9. Restart the WebLogic Process Integrator server.

Configuring an Alternate Security Realm

If you want to create an alternate security realm, the realm must conform to certain guidelines, as follows:

- WebLogic Process Integrator users are WebLogic Server users.
- You must create the following users: `system`, `admin`, and `wlpisystem`.
- You must create the following WebLogic Server groups: all permission groups, as listed in Table 4-2, and the `wlpiUsers` group.
- The `wlpisystem` user must be a member of all the required groups.
- Any user who wants to use WebLogic Process Integrator must be a member of the `wlpiUsers` group.

Consult your WebLogic Server 6.0 documentation for procedures on creating an alternate security realm.

Once a manageable security realm is configured and populated in conformance with the preceding guidelines, you can create additional users, roles, and organizations, and assign permissions to users and roles, through the WebLogic Process Integrator Studio. For information and procedures, see “[Administering Data](#)” in *Using the BEA WebLogic Process Integrator Studio*.

Customizing Database Settings

Database JDBC Connection Pool and RDBMSRealm parameters are automatically provided at installation time when you configure your database, and are stored in an XML file for retrieval each time you start the WebLogic Process Integrator server. If you want to customize or update these parameters, you can do so in two ways:

- With the WebLogic Process Integrator server running in Mydomain, start the WebLogic Server Administration Console and choose Services→JDBC→Connection Pools→wliPool, and edit properties listed on the General and Connections tabs. Next, choose Security→Realms→wlpiRDBMSRealm and edit properties listed on the Database tab. Typically edited parameters for both JDBC and RDBMSRealm are provided in Table 4-5 and Table 4-6, respectively.
- Edit the `config.xml` file found in the Mydomain directory. Procedures for doing so are given below, and a sample version of the file is provided in Appendix A, “WebLogic Process Integrator Sample Configuration Files.”

Note: The `config.xml` file contains settings for all supported databases, with unused databases commented out. If you edit the file through the WebLogic Server Administration Console, all unused database information is lost.

To customize JDBC Connection Pool settings:

1. If you are running the WebLogic Process Integrator server, shut it down.
2. From the `config/mydomain` directory of your WebLogic Process Integrator installation, open the `config.xml` file in a text editor.

Note: The `config.xml` file is case-sensitive. Be sure to enter text using the proper case.
3. If you want to change database products, comment out the current database, and un-comment the database you want to use.

Note: Commented text in XML is surrounded by angle brackets, exclamation marks, and dashes, such as the following: `<!--this is commented text--!>`
4. Provide values for JDBC Connection properties as described in the following table.

Table 4-5 JDBC Connection Pool Properties

Property	Description
user	The account login name required for connecting to the database server.
password	The password required for connecting to the database server.
URL: hostname	The name of the server machine hosting the database.
URL: portname	The port to be used to connect to the server. The default settings are: Oracle: 1521 Sybase: 5000 Microsoft SQL Server: 1433
URL: dbname	The database or service name for the database that contains the WebLogic Process Integrator and repository tables.

5. Provide values for RDBMS Realm properties, as described in the following table.

Table 4-6 RDBMS Realm Properties

Property	Description
DatabasePassword	The password required for connecting to the database server.
DatabaseUserName	The account login name required for connecting to the database server.
DatabaseURL: hostname	The name of the server machine hosting the database.
DatabaseURL: portname	The port to be used to connect to the server. The default settings are: Oracle: 1521 Sybase: 5000 Microsoft SQL Server: 1433

Table 4-6 RDBMS Realm Properties

Property	Description
DatabaseURL: dbname	The database or service name for the database that contains the WebLogic Process Integrator and repository tables.

6. Save the file.
7. Restart the WebLogic Process Integrator server.

Customizing Mail Session Settings

If you specified mail session configuration information during the installation process, these parameters are stored in an XML file for retrieval each time you start the WebLogic Process Integrator server. You can also provide those settings after installation, customize or update these parameters, or, depending on your e-mail server, specify additional information in two ways:

- With the WebLogic Process Integrator server running in Mydomain, start the WebLogic Server Administration Console and choose Services→Mail→wlpiMailSession, and edit properties listed on the Configuration tab. Mail session properties are described in Table 4-7 and Table 4-8 below.
- Edit the `config.xml` file found in the Mydomain directory. Procedures for doing so are given below, and a sample version of the file is provided in Appendix A, “WebLogic Process Integrator Sample Configuration Files.”

Note: The `config.xml` file contains settings for all supported databases, with unused databases commented out. If you edit the file through the WebLogic Server Administration Console, all unused database information is lost.

To customize Mail Session settings:

1. If you are running the WebLogic Process Integrator server, shut it down.

2. From the `config/mydomain` directory of your WebLogic Process Integrator installation, open the `config.xml` file in a text editor.

Note: The `config.xml` file is case-sensitive. Be sure to enter text using the proper case.

3. Edit properties described in the following table.

Table 4-7 Mail Session Properties

Property	Description
<code>mail.from</code>	The e-mail address from which e-mail is sent from a WebLogic Process Integrator workflow.
<code>mail.host</code>	The domain name of the mail or SMTP server.

4. Optionally, add properties described in the following table.

Table 4-8 Additional Mail Session Properties

Property	Description
<code>mail.sender</code>	The name of the sender that appears in an e-mail when it is received. The default is WebLogic Process Integrator.
<code>mail.user</code>	If required by the mail server, the user name used for logging on.
<code>mail.password</code>	If required by the mail server, the password used for logon authentication.

5. Save the file.
6. Restart the WebLogic Process Integrator server.

Modifying Your Environment Settings

Environment settings are provided during the installation process and are stored in the following script files:

- `setEnv.cmd/setEnv.sh`—sets the environment variables for WebLogic Process Integrator server. It is described in more detail in “Updating Server Settings,” and a sample file is provided in Appendix A, “WebLogic Process Integrator Sample Configuration Files.”
- `setwlpclientenv.cmd/setwlpclientenv.sh`—sets the environment variables for both WebLogic Process Integrator client applications: Studio and Worklist. It is described in more detail in “Updating Client Settings,” and a sample file is provided in Appendix A, “WebLogic Process Integrator Sample Configuration Files.”

Updating Server Settings

To update server settings:

1. If you are running the WebLogic Process Integrator server, shut it down.
2. From the `config/mydomain` directory of your WebLogic Process Integrator installation, open the file `setEnv.cmd` (on Windows) or `setEnv.sh` (on UNIX) in a text editor, and edit the variables as described in the following table.

Table 4-9 Server Environment Variables

Variable	Description
<code>JAVA_HOME</code>	The root directory of the Java run-time environment. WebLogic Process Integrator expects to find a Java archive file called <code>rt.jar</code> in the <code>jre/lib</code> subdirectory of this directory.
<code>WL_HOME</code>	The root directory of the WebLogic Process Integrator installation. This directory is detected by the installation program.

Table 4-9 Server Environment Variables

Variable	Description
BEA_HOME	The BEA Home directory you specified during the Installation.
WLINT_HOME	The root directory you specified during the installation of WebLogic Process Integrator or another WebLogic Integration product. The default path is <code>bea\wlintegration2.0</code> .
WLPI_HOME	This directory is created, by default, under the BEA WebLogic Integration home directory during the installation. The default path is <code>bea\wlintegration2.0\processintegrator</code> .

3. Save the file.
4. Restart the WebLogic Process Integrator server.

Updating Client Settings

To update server settings:

1. If you are running WebLogic Process Integrator Studio or Worklist, exit the application.
2. From the `bin` sub-directory of your WebLogic Process Integrator installation, open the file `setwlpiclientenv.cmd` (on Windows) or `setwlpiclientenv.sh` (on UNIX) in a text editor, and edit the variables described in the following table.

Table 4-10 Client Environment Variables

Variable	Description
JAVA_HOME	The root directory of the Java run-time environment. BEA WebLogic Process Integrator expects to find a Java archive file called <code>rt.jar</code> in the <code>jre/lib</code> sub-directory of this directory.

Table 4-10 Client Environment Variables

Variable	Description
WLPI_HOME	This directory is created, by default, under the BEA WebLogic Integration home directory during the installation. The default path is <code>bea\wlintegration2.0\processintegrator</code> .
NETSCAPE_HOME (UNIX only)	The root directory for your Netscape installation. This is required for viewing the Studio online help.

3. Save the file.
4. Restart the WebLogic Process Integrator client application.

Setting Up an Alternate Cloudscape Database

If you want to set up an alternate Cloudscape database, other than the one that is installed by default in Mydomain, you need to do the following:

- Use Cloudview to create the WebLogic Process Integrator tables
- Use Cloudview to create the Repository tables (if you have not already done so for another WebLogic Integration installation)
- Update the WebLogic Process Integrator configuration to recognize the new database

Procedures for these steps are given below. Sample configuration files are also provided in Appendix A, “WebLogic Process Integrator Sample Configuration Files.”

To create an alternate WebLogic Process Integrator Cloudscape database for Mydomain:

1. If you are running the WebLogic Process Integrator server, shut it down.

2. Start the Cloudview administration tool by doing one of the following:
 - On a Windows system, go to the `bin` sub-directory of your WebLogic Process Integrator installation and run the `startcloudview.cmd` script.
 - On a UNIX system, go to the `bin` sub-directory of your WebLogic Process Integrator installation and enter the following:

```
sh startcloudview.sh
```
3. Do one of the following:
 - If you have already created a Repository database, choose File→Open, and navigate to the database. Go to step 7.
 - If you have not yet created a Repository database, choose File→New→Database. The New Database dialog box appears.
4. Click Directory to browse to the directory in which you would like to create the database, or enter a path in the Name field.
5. At the end of the path, add a name for the database, for example `WLIDB`.
6. Click OK.
7. In the right pane of the window, select the Database tab.
8. Click the Script button, and from the pop-up menu, select Open.
9. Navigate to the `ddl` subdirectory of your WebLogic Process Integrator installation, select the `wlpi_cloudscape.ddl` file, and click Open. The contents of the file appear in the SQL window.
10. Click the Execute button to execute the script. When the script has finished running, the WebLogic Process Integrator tables have been created.

To create the Repository tables for a new WebLogic Process Integrator Cloudscape database:

1. In Cloudview, choose File→Open, and navigate to the database in which you have created the WebLogic Process Integrator tables.
2. In the right pane of the window, select the Database tab.
3. Click the Script button, and from the pop-up menu, select Open.

4. Navigate to the `repository/cloudscape` sub-directory of your WebLogic Integration installation, select the `REPOSITORY_SCHEMA_BASE.sql` file, and click Open. The contents of the file appear in the SQL window.
5. Click the Execute button to execute the script. When the script has finished running, the Repository tables have been created.

Note: If you encounter an error stating that a table could not be found during the script execution, delete all `drop table` lines from the SQL window, and re-execute the script.

To update the WebLogic Process Integrator configuration:

1. From the `config/mydomain` sub-directory of your WebLogic Process Integrator installation, open the file `config.xml` in a text editor. (A sample version of this file is provided in Appendix A, “WebLogic Process Integrator Sample Configuration Files.”)

Note: The `config.xml` file is case-sensitive. Be sure to enter text using the proper case.

2. In the `<JDBCConnectionPool>` tag, edit the following line to replace `db` with the new database name:

```
URL="jdbc:cloudscape:db"
```

3. Save the file.
4. From the `config/mydomain` sub-directory of your WebLogic Process Integrator installation, open the server startup script file—`startmydomain.cmd` (on Windows) or `startmydomain.sh` (on UNIX)—in a text editor. (A sample version of this file is provided in Appendix A, “WebLogic Process Integrator Sample Configuration Files.”)
5. Edit the bold section of the following line to update the path for the directory in which the new database resides. (Do not include the name of the database in the path:)

```
-Dcloudscape.system.home=%WLINT_HOME%\repository\cloudscape
```

6. If you are using a version of Cloudscape other than the one shipped with WebLogic Server 6.0, edit the bold section of the following classpath line to update the path for the `cloudscape.jar` file:

```
%WL_HOME%\samples\eval\cloudscape\lib\cloudscape.jar
```

7. Save the file.

You are now ready to start WebLogic Process Integrator.

5 Uninstalling BEA WebLogic Process Integrator

This topic provides platform-specific procedures for uninstalling WebLogic Process Integrator. See the section appropriate for your platform:

- Uninstalling WebLogic Process Integrator from a Windows System
- Uninstalling WebLogic Process Integrator from a UNIX System

Uninstalling WebLogic Process Integrator from a Windows System

To uninstall BEA WebLogic Process Integrator from Windows:

1. Do one of the following:
 - Choose Start→Programs→BEA WebLogic E-Business Platform→WebLogic Integration 2.0→Process Integrator →Uninstall Process Integrator.
 - Choose Start→Run, and click Browse. Navigate to the `uninstall.exe` file in the `uninstaller` sub-directory of the WebLogic Process Integrator 2.0 distribution.

The InstallAnywhere Uninstaller dialog box is displayed.

2. Click Uninstall to remove WebLogic Process Integrator. When the program has been removed, the Uninstall Complete dialog box is displayed.
3. Click Exit to dismiss the dialog box.
4. If necessary, delete the Process Integrator directory and its files. If WebLogic Process Integrator is the only WebLogic Integration product you have installed, or if it is the last one you are uninstalling, you can also delete the WebLogic Integration 2.0 directory and its files.

Uninstalling WebLogic Process Integrator from a UNIX System

To uninstall BEA WebLogic Process Integrator from a UNIX system:

1. Go to the `uninstaller` directory.
2. Enter `sh uninstall` and press Enter.

When the uninstallation process is complete, the message `Uninstall Complete` is displayed.

3. If necessary, delete the Process Integrator directory and its files. If WebLogic Process Integrator is the only WebLogic Integration product you have installed, or if it is the last one you are uninstalling, you can also delete the WebLogic Integration 2.0 directory and its files.

A WebLogic Process Integrator Sample Configuration Files

This section provides system administrators with sample configuration files for BEA WebLogic Process Integrator. During installation, these files are automatically customized, so they will work on any supported computer system and network.

The following sample configuration files are provided:

- `config.xml`
- `setEnv.cmd/setEnv.sh`
- `setwlpclientenv.cmd/setwlpclientenv.sh`
- `startmydomain.cmd/startmydomain.sh`

config.xml

The configuration for your domains is provided in an eXtensible Markup Language (XML) configuration file located in the `config/samples` and `config/mydomain` directories of your WebLogic Process Integrator installation.

Selected sections of the `config.xml` file are provided in the following listing. The sections provided are those that are updated in the course of the installation.

Listing A-1 Selected Sections of the config.xml File

```
<<?xml version="1.0" encoding="UTF-8"?>
<!--If your domain is active, please do not edit the config.xml file. Any changes
made to that file while the domain is active will not have any effect on the
domain's configuration and are likely to be lost. If your domain is inactive, you
may edit this file with an XML editor. If you do so, please refer to the
configuration documentation at
http://edocs.bea.com/wls/docs60/adminguide/config_xml.html. In general, we
recommend that changes to your configuration file be made through the
Administration Console.-->
<Domain Name="mydomain">
  <JDBCConnectionPool CapacityIncrement="1"
    DriverName="COM.cloudscape.core.JDBCdriver" InitialCapacity="1"
    LoginDelaySeconds="1" MaxCapacity="3" Name="wliPool"
    Properties="user=;password=" RefreshMinutes="10" ShrinkPeriodMinutes="15"
    ShrinkingEnabled="true" Targets="myserver"
    TestConnectionsOnRelease="false" TestConnectionsOnReserve="false"
    TestTableName="PLUGIN" URL="jdbc:cloudscape:db"/>
  <MailSession JNDIName="com.bea.wlpi.MailSession" Name="wlpiMailSession"
    Properties="mail.from=kmoscoe@bea.com;
    mail.host=toronto.beasys.com" Targets="myserver"/>
  <RDBMSRealm DatabaseDriver="COM.cloudscape.core.JDBCdriver"
    DatabasePassword="" DatabaseURL="jdbc:cloudscape:db"
    DatabaseUserName="" Name="wlpiRDBMSRealm"
    RealmClassName="com.bea.wlpi.rdbmsrealm.RDBMSRealm"
    .
    .
    .
  />
  <Application Name="WLPI Application" Path="lib">
    .
    .
    .
  </Application>
  .
  .
  .
</Domain>
```

setEnv.cmd/setEnv.sh

This executable file is used to set the environment variables for the BEA WebLogic Process Integrator server. It is installed in the `config/mydomain` directory under the BEA WebLogic Process Integrator installation directory.

On a Windows system, the file is named `setEnv.cmd`; on a UNIX system, `setEnv.sh`.

Listing A-2 Sample setEnv.cmd/setEnv.sh File

```
@rem Copyright (c) 2000 BEA Systems, Inc. All rights reserved.
@rem setEnv.cmd - establish WebLogic Process Integrator Server runtime
environment.
@echo off

rem Set JAVA_HOME to the directory containing your Java 2 runtime environment.
set JAVA_HOME=D:\bea\jdk130

rem Set WL_HOME to the directory containing WebLogic Server 6.0.
set WL_HOME=D:\bea\wlserver6.0

rem Set BEA_HOME to the directory containing WebLogic Process Integrator license.
set BEA_HOME=D:\bea

rem Set WLINT_HOME to the directory containing WebLogic Integration Suite.
set WLINT_HOME=D:\bea\wlintegration2.0

rem Set WLPI_HOME to the directory containing WebLogic Process Integrator.
set WLPI_HOME=D:\bea\wlintegration2.0\processintegrator
```

setwlpclientenv.cmd/setwlpclientenv.sh

This executable file is used to set the environment variables for the BEA WebLogic Process Integrator Worklist and Studio client applications. It is installed in the `bin` directory under the BEA WebLogic Process Integrator installation directory.

On a Windows system, the file is named `setwlpclientenv.cmd`; on a UNIX system, `setwlpclientenv.sh`.

Listing A-3 Sample setwlpclientenv.cmd/setwlpclientenv.sh File

```
@rem Copyright (c) 2000 BEA Systems, Inc. All rights reserved.
@rem SetWLPIClientEnv.cmd - establish WebLogic Process Integrator client runtime
environment.
@echo off

rem Set JAVA_HOME to the location of your Java 2 runtime environment.
set JAVA_HOME=D:\bea\jdk130

rem Set WLPI_HOME to the directory containing WebLogic Process Integrator.
set WLPI_HOME=D:\bea\wlintegration2.0\processintegrator
```

startmydomain.cmd/startmydomain.sh

This executable command file starts WebLogic Process Integrator for WebLogic Server 6.0. It is installed in the `config/mydomain` directory under the BEA WebLogic Process Integrator installation directory.

On a Windows system, the file is named `startmydomain.cmd`; on a UNIX system, `startmydomain.sh`.

Listing A-4 Sample startmydomain.cmd/startmydomain.sh File

```
@rem Copyright (c) 2001 BEA Systems, Inc. All rights reserved.
@rem startmydomain.cmd - Launch WebLogic Server/Process Integrator with mydomain
domain

echo off
setlocal
call SetEnv
call checkEnv
if "%ERROR%"=="true" goto end

echo Starting WebLogic Process Integrator
cd %WLPI_HOME%
set PATH=%WL_HOME%\bin;%WL_HOME%\bin\oci816_8;%PATH%

set
CLASSPATH=%WLPI_HOME%\lib\wl600_mime_type_patch.jar;%WL_HOME%\lib\ejb20.jar;%WL
_HOME%;%WL_HOME%\lib\weblogic_sp.jar;%WLPI_HOME%\lib\mail.jar;%WL_HOME%\lib\web
logic.jar;%WLPI_HOME%\lib\wlpiaux.jar;%WLPI_HOME%\lib\rdbmsrealm.jar;%WLPI_HOM
E%\lib\ecibase.jar;%WLPI_HOME%\lib\xmltoolkit.jar;%WLPI_HOME%\lib\bea.jar;%WLPI
_HOME%\lib\ecirepository.jar;%WLPI_HOME%\lib\jhall.jar;%WL_HOME%\samples\eval\c
loudscape\lib\cloudscape.jar

%JAVA_HOME%\bin\java -hotspot -ms64m -mx64m -classpath %CLASSPATH%
-Dbea.home=%BEA_HOME% -Dweblogic.home=%WL_HOME%
-Dweblogic.system.home=%WLPI_HOME% -Dweblogic.Domain=mydomain
-Dcloudscape.system.home=%WLINT_HOME%\repository\cloudscape
-Dweblogic.Name=myserver -Djava.security.policy==%WL_HOME%\lib\weblogic.policy
weblogic.Server
goto finish

:finish
cd config\mydomain

endlocal

:end
```

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