

Oracle® Fusion Middleware

Installation Guide for Oracle WebLogic Server

11g Release 1 (10.3.1)

E14142-02

October 2009

This document describes how to install Oracle WebLogic Server.

Oracle Fusion Middleware Installation Guide for Oracle WebLogic Server, 11g Release 1 (10.3.1)

E14142-02

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Preface

This document describes how to use the WebLogic installation program on Windows and UNIX platforms.

Audience

This document is intended for system administrators or application developers who are installing the WebLogic software. It is assumed that readers are familiar with web technologies and have a general understanding of Windows and UNIX platforms.

Document Organization

The document is organized as follows:

- [Chapter 1, "Preparing for Installation"](#) describes the basic information you must know before installing your software.
- [Chapter 2, "Starting the Installation Program"](#) describes how to start the installation program in graphical, console, and silent modes on Windows and UNIX platforms.
- [Chapter 3, "Running the Installation Program in Graphical Mode"](#) describes how to install your software on Windows and UNIX platforms, using a Java-based graphical user interface (GUI).
- [Chapter 4, "Running the Installation Program in Console Mode"](#) discusses how to install your software on Windows and UNIX platforms, using a text-based interface.
- [Chapter 5, "Running the Installation Program in Silent Mode"](#) describes how to install your software, without user intervention by using an XML properties file to specify the installation options.
- [Chapter 6, "Post-Installation Information"](#) provides information about post-installation tasks.
- [Chapter 7, "Uninstalling the Software"](#) provides procedures for uninstalling your software in graphical, console, and silent modes.

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Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<code>monospace</code>	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Preparing for Installation

This section discusses the following topics:

- [Section 1.1, "Installation Modes"](#)
- [Section 1.2, "Installable Product Components"](#)
- [Section 1.3, "Product Distribution"](#)
- [Section 1.4, "Installation Prerequisites"](#)
- [Section 1.5, "Selecting Directories for Installation"](#)
- [Section 1.6, "Choosing the Type of Installation"](#)
- [Section 1.7, "Generating a Verbose Installation Log"](#)

1.1 Installation Modes

The installation program can be used in the following modes:

- Graphical mode

Graphical-mode installation is an interactive, GUI-based method for installing your software. It can be run on both Windows and UNIX systems. For installation procedures, see [Chapter 3, "Running the Installation Program in Graphical Mode."](#)

Note: To be able to run the installation program in graphical mode, the console attached to the machine on which you are installing the software must support a Java-based GUI. All consoles for Windows systems support Java-based GUIs, but not all consoles for UNIX systems do. If you attempt to start the installation program in graphical mode on a system that cannot support graphical display, the installation program automatically starts console-mode installation.

- Console mode

Console-mode installation is an interactive, text-based method for installing your software from the command line, on either a UNIX system or a Windows system. For information about using this method, see [Chapter 4, "Running the Installation Program in Console Mode."](#)

- Silent mode

Silent-mode installation is a non-interactive method of installing your software that requires the use of an XML properties file for selecting installation options. You can run silent-mode installation from either a script or from the command

line. Silent-mode installation is a way of setting installation configurations only once and then using those configurations to duplicate the installation on many machines. For more information about the silent mode installation, see [Chapter 5, "Running the Installation Program in Silent Mode."](#)

1.2 Installable Product Components

The product components that you can install vary depending on the installer that you are using.

For example, the Oracle WebLogic Server net installer for Windows includes the following components:

- Oracle WebLogic Server
 - Core Application Server
 - Administration Console
 - Configuration Wizard and Upgrade Framework
 - Web 2.0 HTTP Pub-Sub Server
 - WebLogic SCA
 - WebLogic JDBC Drivers
 - Third Party JDBC Drivers
 - WebLogic Server Clients
 - WebLogic Web Server Plugins
 - UDDI and XQuery Support
 - Server Examples
- Oracle Enterprise Pack for Eclipse

For more information about the product components, see "Selecting the WebLogic Server Components" in *Oracle Fusion Middleware Getting Started With Installation for Oracle WebLogic Server*.

Note: As of WebLogic Server 11g Release 1 Patch Set 1 (10.3.2), Workshop no longer ships with WebLogic Server. Oracle recommends that you use JDeveloper instead.

1.3 Product Distribution

You can download your software from the <http://edelivery.oracle.com/> Oracle Web site.

The following types of installers are available for download:

- **Net installer** (recommended): This type downloads a small setup file that enables you to select the components to install on your system. The installer then downloads only the components you select. The net installer eliminates the need to download the entire product before installing it, and thereby reduces the time needed to complete the download, the disk space, and the RAM required for installation.

The net installer enables you to avoid installing the components that are not required in the specific environment in which the product is being used.

For example, an experienced developer who has Eclipse and a suitable Java Runtime may need only the Core Application Server, the WebLogic JDBC drivers, and the examples. An administrator may choose to install only the Core Application Server, Administration Console, Configuration Wizard and Upgrade Framework, Web Server plug-ins, the third-party JDBC drivers, and the JRockit JDK.

Before the download begins, the net installer prompts you to provide the following information:

- **Storage directory:** The installation program downloads an archive file to your system for each component that you choose to install. By default, these archive files are downloaded to the temporary directory on your system. You can specify an alternate directory on your system for these files; they need not be collocated with the installation setup file, or with the installed software. If you do not specify an alternate directory, your temporary directory must have sufficient space to accommodate the archive files and the installation program. For more information about temporary space required by the installation program, see [Section 1.4.2, "Temporary Disk Space Requirements."](#) To conserve disk space, you can also specify that the downloaded files should be removed from your system after the installation is complete.
- **HTTP Proxy:** If you want to download these files using an HTTP proxy, you must specify the host address and port numbers for the proxy server.
- **Proxy authentication:** If the HTTP proxy you are using requires server-side HTTP authentication, you must enter your username and password.

The net installer supports standard resume processing in the case of interrupted downloads. If the download is interrupted for any reason, either manually or by an unplanned network interruption, you can resume the download from the point at which it was interrupted. When the download is complete, the installation program performs an integrity check on the archive files that were downloaded to your system to verify that the files are downloaded correctly.

- **Package installer:** This type of installer downloads a standalone version of the installation program.

For example, the Oracle WebLogic Server with Oracle Enterprise Pack for Eclipse installer contains Oracle WebLogic Server and related samples, Oracle Enterprise Pack for Eclipse, and the JRockit SDK and Sun JDK (for Windows and Linux platforms only).

Note: If you are planning to install the software in silent mode, you must download the package installer. Silent-mode installation is not supported by the net installer.

- **Generic installers (net and package):** This type of installer is a .jar file. It is the same as the package and net installers, except that it does not include JDKs. You can use this type of installer to install the product on UNIX machines on which Java is already installed. For more information, see [Section 2.3.2, "Starting the Installation Program on UNIX Using .jar Installers."](#)

1.4 Installation Prerequisites

The following sections describe the installation prerequisites:

- [Section 1.4.1, "System Requirements"](#)
- [Section 1.4.2, "Temporary Disk Space Requirements"](#)
- [Section 1.4.3, "Administrator Privileges"](#)

1.4.1 System Requirements

The system requirements for running the installation program are listed in [Table 1–1](#).

Table 1–1 System Requirements

Component	Requirement
Platform configuration	<p>A supported configuration of hardware, operating system, JDK, and database specific to the product you are installing.</p> <p>For information about other prerequisites and recommendations, such as recommended versions of the JDK, see the Oracle Fusion Middleware Supported System Configurations page at http://www.oracle.com/technology/software/products/ias/files/fusion_certification.html document.</p>
Processor	1-GHz CPU
Memory	A Minimum of 1 GB RAM, although we recommend 2 GB of RAM.
Color bit depth display and size	<p>For Graphical User Interface (GUI) mode installation, 8-bit color depth (256 colors) is required.</p> <p>For console-mode and silent-mode installation, there is no color bit depth requirement.</p>
JDK	<p>The Products installation program requires a Java run-time environment (JRE) to run. A JRE is bundled in the Windows installation program and in some UNIX installation programs (those with file names ending in <code>.bin</code>). For other UNIX platforms, the installation program does not install a JDK. File names for these installation programs end in <code>.jar</code>. To run the <code>.jar</code> installation programs, you must have the appropriate version of the JDK installed on your system, and include the <code>bin</code> directory of the JDK at the beginning of the <code>PATH</code> variable definition. It is important that you use a JDK because the installation process assigns values to <code>JAVA_HOME</code> and related variables to point to the JDK directory.</p>

1.4.2 Temporary Disk Space Requirements

The installation program uses a temporary directory into which it extracts the files necessary to install the software on the target system. During the installation process, your temporary directory must contain sufficient space to accommodate the compressed Java Run-time Environment (JRE) bundled with the installation program and an uncompressed copy of the JRE that is expanded into the temporary directory. The extracted files are deleted from the temporary directory after the installation process. The files in the temporary directory require approximately 2.5 times the space that is ultimately required for the installation.

By default, the installation program uses the following temporary directories:

- Windows platforms: directory referenced by the `TMP` system variable
- UNIX platforms: system-dependent temporary directory

Note: If you do not have enough temporary space to run the installation program, you are prompted to specify an alternate directory or exit the installation program.

To make sure that you have adequate temporary space, you may want to allocate an alternate directory for this purpose. To do so, follow the instructions provided in [Table 1–2](#).

Table 1–2 Setting Up the Temporary Directory

Platform	Procedure
Windows	<p>Do one of the following:</p> <ul style="list-style-type: none"> ■ Set the TMP system variable to a directory of your choice. ■ If you run the installation program from the command line, include the <code>-Djava.io.tmpdir=tmpdirpath</code> option, replacing <i>tmpdirpath</i> with the full path of the directory you want to designate as a temporary storage area for the installation program. <p>For example, to set up the temp directory while running the Oracle WebLogic Server net installer for Windows, execute this command:</p> <pre>net_wls1031_win32.exe -mode=console -Djava.io.tmpdir=C:\Temp</pre>
UNIX	<p>Enter the following option on the command line when you start the installation program:</p> <pre>-Djava.io.tmpdir=tmpdirpath</pre> <p>Here, <i>tmpdirpath</i> is the full path of the directory you want to designate as a temporary storage area for the installation program.</p>

1.4.3 Administrator Privileges

When you are installing the software as a user with Administrator privileges, you are presented with the option to create the Start menu shortcuts in the All Users folder, or in the Local User's Start menu folder.

[Table 1–3](#) describes the available options.

Table 1–3 Available Shortcut Options

Option	Behavior
All Users	All users registered on the machine are provided with access to the installed software. Subsequently, if users without Administrator privileges use the Configuration Wizard from this installation to create domains, Start menu shortcuts to the domains are not created. In this case, users can manually create shortcuts in their local Start menu folders, if desired.
Local user	Other users registered on this machine do not have access to the Start menu entries for this installation.

If a user without Administrator privileges installs the software, the Start menu entries are created in the user's local Start menu folder.

1.5 Selecting Directories for Installation

During the installation process, you must specify locations for the following directories:

- [Section 1.5.1, "Choosing a Home Directory"](#)
- [Section 1.5.2, "Choosing a Product Installation Directory"](#)

1.5.1 Choosing a Home Directory

When you install your WebLogic software, you are prompted to specify a home directory. This directory serves as a repository for common files that are used by multiple WebLogic products installed on the same machine. For this reason, the home directory can be considered a *central support directory* for all the WebLogic products installed on your system.

The files in the home directory are essential to ensuring that WebLogic software operates correctly on your system. They facilitate checking of cross-product dependencies during installation.

When you are installing WebLogic software, you are prompted to choose an existing home directory or specify a path to create a home directory. If you choose to create a directory, the installation program automatically creates it for you.

Installation Considerations

Oracle recommends the following:

- Do not exceed a maximum of 12 characters when naming your home directory. If the name of this directory has more than 12 characters and if there are spaces in the directory name, the CLASSPATH may not be resolved properly.
- You can install only one instance of each version of a WebLogic product in a single home directory.

For example, you can install only one instance of the current version of Oracle WebLogic Server in a home directory, but that home directory may also contain an instance of a previous version of Oracle WebLogic Server.

- If the home directory is not empty and it does not contain `registry.xml`, or if any of the product installation directories are not empty, one of the following messages is displayed:
 - For home directory selection task: Middleware home directory is not empty. Proceed with installation?
 - For product installation directory selection task: One or more installation directories are not empty. Proceed with installation?

Functions of the Home Directory

The directories in the home directory vary depending on the installer that you are using.

For example, the Oracle WebLogic Server with Workshop for WebLogic installer creates the directories listed in the following table if you have selected all the components for installation.

Table 1–4 Directory Description for Middleware Home

Component	Description
<code>jdkversion</code>	Contains the software for the Sun JDK if it is installed with your software. The JDK provides the Java run-time environment (JRE) and tools for compiling and debugging Java applications.
<code>rockit_version</code> (Windows and Linux only)	Contains the software for the JRockit JDK installed with your software. The JDK provides the Java run-time environment (JRE) and tools for compiling and debugging Java applications.
<code>logs</code>	Contains a history file that contains information about installation and uninstallation for the home directory.

Table 1–4 (Cont.) Directory Description for Middleware Home

Component	Description
modules	Contains the modules installed in the Home Directory.
utils	Contains utilities that are used to support the installation of all WebLogic installed in this home directory. For more information on installing patches and maintenance packs, see <i>Oracle Smart Update Installing Patches and Maintenance Packs</i> .
wlserver_version	This directory contains the following directories: <ul style="list-style-type: none"> ▪ common ▪ samples ▪ server ▪ uninstall
workshop_version	This directory contains the following directories: <ul style="list-style-type: none"> ▪ common ▪ Samples ▪ uninstall ▪ weblogic-beehive ▪ workshop4WP
.home	Contains the information about the home directory.
ocm.rsp	The response file that contains information about the Oracle Configuration Manager (OCM) installation.
registry.xml	A registry file that contains a persistent record of all WebLogic products installed on the target system. This registry contains product-related information, such as version number, service pack number, and location of the installation directory. Note: Do not edit this file manually. Doing so may cause operating problems for the currently installed WebLogic products, or result in installation problems when future products or maintenance upgrades are installed.
registry.dat	This is an encrypted version of the <code>registry.xml</code> file.

Note: The `user_projects` folder is created in the middleware home directory only when you create domains and it is the default location for your domain files.

Creating Multiple home Directories

Although it is possible to create more than one home directory, Oracle recommends that you avoid doing so. In most situations, a single home directory is sufficient. There may be circumstances, however, in which you prefer to maintain separate development and production environments, with a separate product stack for each. With two directories, you can update your development environment (in a home directory) without modifying the production environment until you are ready to do so.

1.5.2 Choosing a Product Installation Directory

The product installation directory contains all the software components that you choose to install on your system, including program files and examples.

For example, the default installation directory for Oracle WebLogic Server is `C:\MW_HOME\wlserver_version`.

The installation program installs the software components in a product installation directory represented by the `MW_HOME` variable (the default is `Oracle\Middleware`).

1.6 Choosing the Type of Installation

The installation program provides two types of installation: Typical and Custom.

- In a typical installation, all of the components that are included in the installation program are installed.
- In a custom installation, you can choose the software components you want to install on your system.

For a list of the software components provided with your product distribution, see [Section 1.2, "Installable Product Components."](#)

Sample domains preconfigured to use the PointBase database are created only for the installed components.

On Windows and Linux systems, two JDKs are installed: the JRockit 1.6.0 JDK and the Sun JDK 1.6.0.

1.7 Generating a Verbose Installation Log

If you launch the installation from the command line or from a script, you can specify the `-log` option to generate a verbose installation log. The installation log stores messages (informational, warning, error, and fatal) about events that occur during the installation process. This type of file can be especially useful for silent installations.

Note: You may see a few warning messages in the installation log. However, unless a fatal (irrecoverable) error occurs, the installation program completes the installation successfully. The installation user interface indicates the success or failure of each installation attempt, and the installation log file includes an entry indicating that the installation was successful.

To create a verbose log file during installation, include the `-log=full_path_to_log_file` option in the command line.

For example, to create a verbose log file for the Oracle WebLogic Server net installer for Windows, enter:

```
net_wls1031_win32.exe -log=C:\logs\server_install.log
```

The path must specify a file. You cannot create a folder simply by including a name for it in a pathname; your path should specify only existing folders. If your path includes a nonexistent folder when you execute the command, the installation program does not create the log file.

Starting the Installation Program

The following sections describe how to start the installation program on Windows and UNIX platforms:

- [Section 2.1, "Before You Start the Installation Program"](#)
- [Section 2.2, "Starting the Installation Program on Windows"](#)
- [Section 2.3, "Starting the Installation Program on UNIX"](#)

2.1 Before You Start the Installation Program

Before you start installing the software, review the following information:

- Make sure that you are installing your product on a supported hardware or software configuration. For more information, see the Oracle Fusion Middleware Supported System Configurations page at http://www.oracle.com/technology/software/products/ias/files/fusion_certification.html document.
- Read [Chapter 1, "Preparing for Installation."](#)
- You cannot reinstall a product on top of a previously installed version of the same product—in the same home directory or in the same file location. You can, however, add products and product components to an existing installation.

For example, you can install WebLogic Server during one installation, and Oracle Enterprise Pack for Eclipse during a separate installation. However, to reinstall the same version of a product, you must first uninstall the previous installation, as described in [Chapter 7, "Uninstalling the Software."](#)

- If you are adding components to an existing installation of WebLogic Server, you should shut down any running servers before starting the installation.

2.2 Starting the Installation Program on Windows

The following sections describe how to start the installation program on a Windows platform:

- [Section 2.2.1, "Starting the Installation Program in Graphical Mode"](#)
- [Section 2.2.2, "Starting the Installation Program in Console Mode"](#)
- [Section 2.2.3, "Starting the Installation Program in Silent Mode"](#)

Note: If you are installing the software on a Windows system that supports more than one monitor, you must disable all but one monitor before starting the installation program.

2.2.1 Starting the Installation Program in Graphical Mode

To start the installation program in graphical mode on a Windows platform, follow these steps:

1. Log in to the Windows system.
2. Go to the directory that contains the installation program.
3. Double-click the installation file.

For example, the name of the installation program for the Oracle WebLogic Server package installer for Windows is `wls1032_win32.exe`.

The installation program begins to install the software.

4. Proceed to [Chapter 3, "Running the Installation Program in Graphical Mode."](#)

2.2.2 Starting the Installation Program in Console Mode

To start the installation program in console mode on a Windows platform, follow these steps:

1. Log in to the target Windows system.
2. Open a command prompt window.
3. Go to the directory that contains the installation program.
4. Launch the installation by entering the name of the installation program.

For example, to start the Oracle WebLogic Server package installer for Windows in console mode, enter

```
wls1032_win32.exe -mode=console
```

Note: You can include the `-log=full_path_to_log_file` option in the command line to create a verbose installation log.

For more information, see [Section 1.7, "Generating a Verbose Installation Log."](#)

After a few moments, the installation program begins to install the software.

5. Proceed to [Chapter 4, "Running the Installation Program in Console Mode."](#)

2.2.3 Starting the Installation Program in Silent Mode

For information about silent-mode installation, see [Section 5.1, "What Is Silent-Mode Installation?"](#)

Note: You must use the package installer for silent-mode installation. Silent-mode installation is not supported with the net installer.

To start the installation program in silent mode on a Windows platform, follow these steps:

1. Log in to the Windows system.
2. Create a `silent.xml` file that defines the configuration settings normally entered by a user during an interactive installation process, such as graphical-mode or console-mode installation. For information about creating a `silent.xml` file, see [Section 5.3, "Creating a silent.xml File for Silent-Mode Installation."](#)

Note: Incorrect entries in the `silent.xml` file can cause installation failures. To help you determine the cause of a failure, we recommend that you create a log file when you start the installation.

3. Open a command prompt window.
4. Go to the directory that contains the installation program.
5. Start the installer.

For example, to launch the Oracle WebLogic Server installer on Windows, enter:

```
wls1032_win32.exe -mode=silent -silent_xml=path_to_silent.xml
```

Here, `path_to_silent.xml` is the full path of the `silent.xml` file.

Note: You can include the `-log=full_path_to_log_file` option in the command line to create a verbose installation log.

For more information, see [Section 1.7, "Generating a Verbose Installation Log."](#)

An Oracle Installer window is displayed, indicating that the files are being extracted. No other prompt or text is displayed.

For more information, see [Chapter 5, "Running the Installation Program in Silent Mode."](#)

2.3 Starting the Installation Program on UNIX

The installation program requires a Java run-time environment (JRE) to run. A JRE is bundled in the Windows installation program, and in some UNIX installation programs (those with file names ending in `.bin`). For other UNIX platforms, the installation program does not include a JRE. File names for these installation programs end in `.jar`. To run the `.jar` installation programs, you must have an appropriate version of a JDK installed on your system, and include the `bin` directory of the JDK at the beginning of your `PATH` system variable.

Note: It is important that you use a JDK because the installation process assigns values to `JAVA_HOME` and related variables to point to this directory. All scripts installed by your installation program use this JDK by default, including scripts to start sample applications, the Configuration Wizard, and other development tools.

To run graphical-mode installation, your console must support Java-based GUIs. If the installation program determines that your system cannot support Java-based GUIs, it automatically starts running in console mode.

2.3.1 Starting the Installation Program on UNIX Using .bin Installers

The following sections describe how to start the installation program on UNIX platforms, by using files with the `.bin` extension:

Starting .bin Installation Programs in Graphical Mode

To start the graphical-mode installation process with `.bin` installation files, follow these steps:

1. Log in to the target UNIX system.
2. Go to the directory that contains the installation program.
3. Launch the installation by entering the following command:

```
chmod a+x file_name.bin ./file_name.bin
```

file_name.bin is the name of your installation program. For example, for Oracle WebLogic Server 10.3.2, the name of the package installer file for Solaris is `wls1032_solaris32.bin`.

The installation program begins to install the software.

4. Proceed to [Chapter 3, "Running the Installation Program in Graphical Mode."](#)

Starting .bin Installation Programs in Console Mode

To start the console-mode installation process with `.bin` installation files, follow these steps:

1. Log in to the target UNIX system.
2. Go to the directory that contains the installation program.
3. Launch the installation by entering the following command:

```
chmod a+x file_name.bin ./file_name.bin -mode=console
```

4. Proceed to [Chapter 4, "Running the Installation Program in Console Mode."](#)

Starting .bin Installation Programs in Silent Mode

To start the silent-mode installation process by using `.bin` installation files, follow these steps:

1. Log in to the target UNIX system.
2. Create a `silent.xml` file that defines the configuration settings normally entered by a user during an interactive installation process, such as graphical-mode or console-mode installation. For information about creating a `silent.xml` file, see [Section 5.3, "Creating a silent.xml File for Silent-Mode Installation."](#)

Note: Incorrect entries in the `silent.xml` file can cause installation failures. To help you determine the cause of a failure, we recommend that you create a log file when you start the installation.

3. Go to the directory that contains the installation program.

4. Launch the installation program by entering the following command:

```
chmod a+x file_name.bin ./file_name.bin -mode=silent -silent_
xml=path_to_silent.xml
```

`file_name.bin` is the name of the installation file.

`path_to_silent.xml` is the full path of the `silent.xml` file.

An Installer window is displayed, indicating that the files are being extracted. No other prompt or text is displayed.

For more information about silent-mode installation, see [Chapter 5, "Running the Installation Program in Silent Mode."](#)

Note: You can include the `-log=full_path_to_log_file` option in the command line to create a verbose installation log.

For more information, see [Section 1.7, "Generating a Verbose Installation Log."](#)

2.3.2 Starting the Installation Program on UNIX Using .jar Installers

The following sections describe how to start the installation program on UNIX platforms by using generic (`.jar`) installers:

2.3.2.1 Starting .jar installation Programs in Graphical Mode

To start the installation program in graphical mode for installation files with names ending in `.jar`, perform the following steps.

1. Log in to the target UNIX system.
2. Add the `bin` directory of the appropriate JDK to the beginning of the `PATH` variable definition on the target system.

For example: `PATH=$JAVA_HOME/bin:$PATHexport PATH`

3. Go to the directory where you downloaded the installation program.
4. Launch the installation program by entering the following command (this example shows the NET installer):

```
java -jar net_wlsversion_generic.jar
```

The installation program begins to install the software.

Note: If you are installing WebLogic Server on a 64-bit platform, see [Section 2.3.2.4, "Installing WebLogic Server on 64-Bit Platforms Using 64-Bit JDK,"](#) for more information

5. Proceed to [Chapter 3, "Running the Installation Program in Graphical Mode."](#)

2.3.2.2 Starting .jar Installation Programs in Console Mode

To start the installation program in console mode for installation files with names ending in `.jar`, follow these steps:

1. Log in to the target UNIX system.
2. Add the `bin` directory of the appropriate JDK to the beginning of the `PATH` variable definition on the target system.

For example: `PATH=$JAVA_HOME/bin:$PATHexport PATH`

3. Go to the directory where you downloaded the installation program.
4. Launch the installation by entering the following command:

```
java -jar file_name.jar -mode=console
```

file_name.jar is the name of the installation file.

Note: If you are installing WebLogic Server on a 64-bit platform, see [Section 2.3.2.4, "Installing WebLogic Server on 64-Bit Platforms Using 64-Bit JDK,"](#) for more information

5. Proceed to [Chapter 4, "Running the Installation Program in Console Mode."](#)

2.3.2.3 Starting .jar installation programs in Silent Mode

To start the installation program in silent mode for installation files with names ending in `.jar`, follow these steps:

1. Log in to the target UNIX system.
2. Create a `silent.xml` file that defines the configuration settings normally entered by a user during an interactive installation process, such as graphical-mode or console-mode installation. For information about creating a `silent.xml` file, see [Section 5.3, "Creating a silent.xml File for Silent-Mode Installation."](#)

Note: Incorrect entries in the `silent.xml` file can cause installation failures. To help you determine the cause of a failure, we recommend that you create a log file when you start the installation.

3. Add the `bin` directory of the appropriate JDK to the beginning of the `PATH` variable definition on the target system.

For example: `PATH=$JAVA_HOME/bin:$PATHexport PATH`

4. Go to the directory that contains the installation file.
5. Launch the installation by entering the following command:

```
java -jar file_name.jar -mode=silent -silent_xml=/path_to_silent.xml
```

file_name.jar is the name of the installation file

path_to_silent.xml is the *full* path to the `silent.xml` file.

Note: If you are installing WebLogic Server on a 64-bit platform, see [Section 2.3.2.4, "Installing WebLogic Server on 64-Bit Platforms Using 64-Bit JDK,"](#) for more information.

An Installer window is displayed, indicating that the files are being extracted. For more information, see [Chapter 5, "Running the Installation Program in Silent Mode."](#)

Notes: You can include the `-log=full_path_to_log_file` option in the command line to create a verbose installation log. For more information, see [Section 1.7, "Generating a Verbose Installation Log."](#)

When you run the generic upgrade installer, ensure that the heap size is adequate, by including the `-Xmxsize[g|M|k|K]` option in the command.

2.3.2.4 Installing WebLogic Server on 64-Bit Platforms Using 64-Bit JDK

If you are installing WebLogic Server on a 64-bit platform using a `.jar` installation program:

- Include the `-d64` flag in the installation command when using a 32/64-bit hybrid JDK (such as for the HP-PA, HPIA, and Solaris64 platforms. For example, if installing in graphical mode using the package installer:

```
java -d64 -jar wlsversion_generic.jar
```
- Run the `java -version` command (or `java -d64 -version` command on platforms using a 32/64-bit hybrid JDK) to ensure that your `JAVA_HOME` refers to a 64-bit JDK.

Running the Installation Program in Graphical Mode

Start the installation program as described in [Chapter 2, "Starting the Installation Program."](#)

The installation wizard displays a series of windows which are described in [Table 3–1](#).

Table 3–1 *Running the Installation Program in Graphical Mode*

In this window	Perform the following action
Welcome	<p>Click Next to proceed with the installation.</p> <p>You may cancel the installation at any time by clicking Exit.</p>
Choose Middleware Home Directory	<p>Specify the home directory that will serve as the central support directory for all products installed on the target system.</p> <ul style="list-style-type: none"> ▪ If you already have a home directory on your system, you can select that directory (recommended) or create a home directory. ▪ If you choose to create a directory by typing a new directory name in the Middleware Home Directory field, the installation program automatically creates one for you. You can also click Browse and select a directory from the Middleware Home Directory selection window. <p>Click Next to continue. The Specify Download Options window is displayed.</p> <p>For details about the home directory, see Section 1.5.1, "Choosing a Home Directory."</p>
Register for Security Updates	<p>Specify whether you want to register the Oracle WebLogic Server installation with My Oracle Support. By registering, Oracle Support notifies you immediately of any security updates that are specific to your installation.</p> <p>If you want to register your installation, enter your e-mail address and your My Oracle Support password. If you want to decline registration, deselect "I wish to receive security updates via My Oracle Support" and confirm your choice.</p> <p>If you have not registered with Oracle Support, go to the My Oracle Support Web site, https://metalink.oracle.com/CSP/ui/index.html, and register to obtain a My Oracle Support account.</p> <p>For more information about the capabilities of registering your installation with My Oracle Support, see <i>Oracle Configuration Manager Installation and Administration Guide</i>.</p>

Table 3–1 (Cont.) Running the Installation Program in Graphical Mode

In this window	Perform the following action
Specify Download Options	<p>Indicate your preferences for downloading the software as follows and click Next to continue. The Choose Install Type window is displayed.</p> <ul style="list-style-type: none">■ Storage Directory: Specify a storage directory to which you want to download the software components. The installation program downloads an archive file to your system for each component that you choose to install. You can choose any location on your system for these files. The directory you choose need not be the same as the directory that contains the installer or the installed software. <p>Note: If you have specified a storage directory, that directory name is displayed. If you have not specified a storage directory, the installer specifies the system's temporary directory as the default. Make sure that your temporary directory has sufficient space to accommodate the archive files and the installation program. For more information about temporary space required by the installation program, see <i>Temporary Disk Space Requirements</i>.</p> <ul style="list-style-type: none">■ Remove downloaded files when installer exits: Select this option if you want the installation program to delete the downloaded files after the installation is complete. If you do not select this option, the downloaded files are saved to the storage directory you specified.■ Use HTTP Proxy: Select this option if you want to use an HTTP Proxy server for the download. To use an HTTP Proxy server, you must provide the following information:<ul style="list-style-type: none">Host: Enter the name or IP address of the proxy server.Port: Enter the port number of the proxy server.■ Use Authentication: Select this option if the HTTP Proxy server you are using requires server-side authentication. If you select this option, you must provide the following information:<ul style="list-style-type: none">Username: Enter a valid username required by the proxy server.Password: Enter a valid password for the user.
Choose Install Type This window is displayed only during an initial installation.	<p>Select the installation type:</p> <ul style="list-style-type: none">■ Typical: All the software components included in your installation program, are installed on your system. Sample domains are preconfigured for use with the PointBase database during installation, allowing you to execute the samples when the installation is complete.■ Custom: You select the software components to be installed. On Windows systems, you also have the option to install Oracle WebLogic Server Node Manager as a Windows service. <p>Click Next. The Choose Product and components window is displayed</p> <p>For more information, see Section 1.6, "Choosing the Type of Installation."</p>

Table 3–1 (Cont.) Running the Installation Program in Graphical Mode

In this window	Perform the following action
<p>Choose Products and Components</p> <p>This window is displayed only under the following conditions:</p> <ul style="list-style-type: none">■ You selected Custom installation in the Choose Install Type window.■ You are adding components to an existing installation.	<p>Specify the components to be installed by selecting or clearing the appropriate check boxes. This window displays a tree-view of all the components available for installation.</p> <p>When you select or clear a component at the folder level, all subcomponents are selected or cleared accordingly.</p> <p>If any components are installed on your system, the corresponding check boxes are grayed out.</p> <p>This window also displays the description and the approximate installed size of the selected component.</p> <p>Note: When you select or deselect components, the installation program checks for dependencies between the components and automatically modifies the list of selected components. For example, if you deselect Oracle WebLogic Server, the components that require Oracle WebLogic Server are also deselected.</p> <p>For details about the components available for installation on your system, see Section 1.2, "Installable Product Components."</p>
<p>JDK Selection</p> <p>This window is displayed only if you have opted for custom installation.</p>	<p>This window displays a list of JDKs. This list contains JDKs that are available for (and common across) previous installations of all the selected components.</p> <p>Select the JDK that you want to install with the product.</p> <p>You can also browse for and select a local JDK (at least 1.6.0_05) installed on your machine.</p> <p>This window also displays the approximate installed size of the highlighted JDK, the total installed size of all the selected JDKs, and the total installed size of all the components.</p> <p>Note: Sun has addressed multiple Java security vulnerabilities affecting the following Sun Java Runtime Environments.</p> <ul style="list-style-type: none">■ JDK and JRE 6 Update 10 and earlier■ JDK and JRE 5.0 Update 16 and earlier <p>If you have already installed any of the above versions of JDK, you must upgrade it to the latest version of Sun Java Runtime Environment by selecting the latest JDK version in the installer.</p>
<p>Downloading Archive Information</p> <p>This window is displayed only if you are using the net installer.</p>	<p>No action required.</p> <p>This window is displayed when the preliminary archive information is downloaded to your system. This window is followed by the Archive Download window.</p>
<p>Archive Download</p> <p>This window is displayed only if you are using the net installer.</p>	<ul style="list-style-type: none">■ Indicate whether you want to proceed with the installation automatically after the download is complete by selecting or clearing the appropriate check box. This check box is selected by default. If you clear it, you must click Next when the download is complete to proceed with the installation.■ To interrupt the download for any reason, click Pause. The Pause button is replaced by a Resume button. If you click the Pause button, the download is discontinued, and you can go back to the previous windows and change the selections. Click Resume if you are ready to proceed with the download.
<p>Archive Integrity Check</p> <p>This window is displayed only if you are using the net installer.</p>	<ul style="list-style-type: none">■ No action required. This window is displayed while the installation program verifies that the component archive files have been downloaded successfully.

Table 3–1 (Cont.) Running the Installation Program in Graphical Mode

In this window	Perform the following action
<p>Choose Product Installation Directories</p> <p>This window is not displayed if you are adding components to an existing installation. Instead, you are prompted to confirm the product installation directory. If you do so, the selected components are installed in the product installation directory you specified during the initial installation.</p>	<p>Specify the directories in which you want to install the products, and click Next. You can accept the default product directories or specify new directories.</p> <p>If you choose to create a directory, the installation program automatically creates one for you.</p> <p>If you go back to the Choose Middleware Home Directory window to change the home directory, the following changes occur based on the type of changes you make to the home directory:</p> <ul style="list-style-type: none">■ If you accept the default product installation directory in the Choose Product Installation Directory window, then the old installation directory is retained in the Choose Middleware Home Directory window. For example, the default installation directory for Oracle WebLogic Server is <code>MW_HOME\wlserver_version</code>.■ If you enter a new product installation directory in the Choose Product Installation Directory window, the directory name is modified to this new name in the Choose Middleware Home Directory window.■ If you specify the installation directory in the Choose Product Installation Directory window, and if the directory you specify is outside of the old home, the old installation directory is retained. <p>For more information, see Section 1.5.2, "Choosing a Product Installation Directory."</p>
<p>Install Windows Service</p> <p>This window displays only if all the conditions are true:</p> <ul style="list-style-type: none">■ You have Administrator privileges.■ You are performing an initial installation.■ You are installing on a Windows platform.■ You selected Custom installation in the Choose Install Type window.	<p>Choose whether you want to install the Windows services indicated, specifically the Oracle WebLogic Server Node Manager service. Node Manager is used to monitor, start, and stop server instances in a domain.</p> <p>If you select Yes, enter the Node Manager Listen Port in the appropriate field. The default is 5556.</p> <p>Note: If the Listen Port number you specify is being used by a running application, the installation program prompts you to enter a different Node Manager Listen Port number.</p>

Table 3-1 (Cont.) Running the Installation Program in Graphical Mode

In this window	Perform the following action
<p>Choose Shortcut Location</p> <p>This window is displayed only under the following conditions:</p> <ul style="list-style-type: none">■ You have Administrator privileges.■ You are performing an initial installation.■ You are installing on a Windows platform.	<p>Specify the Start menu folder in which you want the Start menu shortcuts to be created and click Next to continue. The Status window is displayed.</p> <p>Select from the following options:</p> <ul style="list-style-type: none">■ All Users Start menu folder <p>Select this option to provide all users registered on the machine with access to the installed software. However, only users with administrator privileges can create shortcuts in the All Users folder. Therefore, if a user without administrator privileges uses the Configuration Wizard to create domains, Start menu shortcuts to the domains are not created. In this case, users can manually create shortcuts in their local Start menu folders, if desired. Press ALT+A on the keyboard to select the All Users Start Menu.</p> <ul style="list-style-type: none">■ Local User's Start menu folder <p>Selecting this option ensures that other users registered on this machine do not have access to the Start menu entries for this installation. Press ALT+L on the keyboard to select the Local User's start menu.</p>
<p>Installation Summary</p>	<p>This window displays a list of product components and JDKs to be installed. It also displays the description and the approximate installed size of each product component, JDKs, and the total size of all the selected items.</p> <p>Click Next.</p>
<p>Status</p>	<p>Read the information displayed about products and services. When the installation program has finished copying the specified files to your system, click Next.</p>
<p>Installation Complete</p> <p>In this screen you see a dialog box with the message "Congratulations! Installation is Complete."</p>	<p>Specify whether you want to run the QuickStart application. QuickStart, designed to assist first-time users in evaluating, learning, and using the software, provides quick access to the sample domains, information for upgrading your applications, and the online documentation. Clear the check box for this option if you do not want to launch QuickStart.</p> <p>Click Done to exit the installation program and, launch QuickStart, if selected.</p>



Running the Installation Program in Console Mode

Start the installation program in console mode, as described in [Chapter 2, "Starting the Installation Program."](#)

To complete the console-mode installation process, respond to the prompts in each section by entering the number associated with your choice or by pressing **Enter** to accept the default. To exit the installation process, enter **exit** (or **x**, for short) in response to any prompt. To review or change your selection, enter **previous** (or **p**, for short) at the prompt. To proceed to the following window, enter **next** (or **n**, for short).

Note: In the sample console text and directory path names provided in this section, Windows conventions (such as backslashes in path names) are used, for example, `C:\Oracle\MW_HOME\wlserver_version`. When entering path names on a UNIX system, be sure to use UNIX conventions, instead. For example, use forward slashes in path names, such as `C:/Oracle/MW_HOME/wlserver_version`.

Use the following procedure after you have started the installation program in console mode, as described in [Chapter 2, "Starting the Installation Program."](#)

1. At the Welcome prompt, type **next** (or **n** for short), or press **Enter** to continue with the installation process.

The Choose Middleware Home directory prompt is displayed

2. Specify the home directory that will serve as the central support directory for all WebLogic products installed on the target system. For information about the home directory, see [Section 1.5.1, "Choosing a Home Directory."](#)

One of the following is displayed on your system:

- If you have existing home directories on your system, a list of the directories is displayed.

To use an existing home directory, type the number associated with the home directory.

To create a home directory, type **1** or press **Enter**.

- If there are no home directories on your system, or you have selected **create a new Middleware Home**, do one of the following:

To use the default home directory, type **next** (or **n** for short), or press **Enter**.

To create a home directory, enter the *full path* of the home directory, for example **C:\Middleware Home**. If you specify a directory that does not exist, the installation program creates it for you.

The installation program displays the home directory you have specified.

On the command line, press **Enter** to accept your selection. Otherwise, type **1** or **2** to return to the Choose Middleware Home Directory panel, where you can modify your entry.

After you have selected your home directory and confirmed your selection, type **Next** or press **Enter**.

The Specify Download Options prompt is displayed

3. Indicate your preferences for downloading the software. The installation program prompts you to select from the given options.

Note: If you have previously installed Oracle WebLogic Server and specified a storage directory during the installation process, the full path name for that directory is displayed as the default. If you have not specified a storage directory, the installer specifies the system's temporary directory as the default. Make sure that your temporary directory has sufficient space to accommodate the archive files and the installation program. For more information about temporary space required by the installation program, see [Section 1.4.2, "Temporary Disk Space Requirements."](#)

To accept the defaults, type **next** (or **n** for short) or press **Enter**. If you have not specified a download storage directory in a previous installation and you want to save the files to be downloaded, you must specify a directory before you can proceed with the installation.

To modify any of the options, do the following:

- Enter **1** to specify a storage directory to which you want to download the software components. When prompted, type the full path name for the desired directory. If the directory does not exist, the installation program creates it for you.
- Enter **2** to delete the downloaded files after the installation is complete. If you do so, the download options are displayed again, and the **Modify Remove download files after installation** option is set to **No**. If you accept the default for this option (**Yes**), the downloaded files are deleted from the storage directory you specified.
- Indicate whether you want to use an HTTP Proxy server for the download by providing values for the Modify Host and Modify Port options as follows:
 - Enter **3** to specify a host. At the prompt, enter the name or IP address of the proxy server.
 - Enter **4** to specify a port. At the prompt, enter the port number of the proxy server.
- Specify the username and password required by the HTTP Proxy server, if required, as follows:
 - Enter **5** to specify a username. At the prompt, enter a valid username for the proxy server.

Enter **6** to specify a password. At the prompt, enter a valid password for the user.

For additional information about downloading the software, see [Section 1.3, "Product Distribution."](#)

After you have indicated your preferences for downloading the software, press **Enter**. One of the following occurs:

- If you are adding components to an existing installation, the `Choose Components to install` panel is displayed. Go to step 5.
 - If you are performing an initial installation, the `Choose Install Type` prompt is displayed.
4. Specify the type of installation you want to perform by entering the number associated with the install type.
- To select complete installation, type **1** or press **Enter** and proceed to step 7.
 - To select custom installation, type **2**. The `Choose Products and Components to install` prompt is displayed.

For more information about complete and custom installations, see [Section 1.6, "Choosing the Type of Installation."](#)

5. Select the components you want to install.

The word **Installed** is shown in brackets for any component that is already installed in the current Middleware Home directory.

Note: The installer displays the estimated size of the installation for the selected components.

When you select or deselect components, the installation program checks for dependencies between the components and automatically modifies the list of selected components. For example, if you deselect Oracle WebLogic Server, the components that require Oracle WebLogic Server are also deselected.

After selecting the required components, press **Enter**, or type **n** and then press **Enter**.

The `JDK Selection` prompt is displayed.

6. Select the JDK.
- To add a local JDK, enter **1**, and specify the location of the JDK.
 - To toggle the selection for an existing JDK, enter the appropriate number (2 or higher).
 - To retain the current selection and proceed with the installation, press **Enter**.

The installer searches for the required archive files. User interaction is not required here.

After you select the JDK, the files begin downloading to the specified storage directory. When the download is complete, the installation program verifies that the component archive files are downloaded successfully. If the installation program cannot verify the integrity of the download, an error message is displayed.

Once the verification is complete, you are prompted to enter the installation directory.

7. Specify the directory in which you want to install the software. You can accept the default product directory (*MW_HOME\wlserver_version*) or create a different product directory.

Note: If you are adding components to an existing installation, you are prompted to confirm the product installation directory.

If you specify a new directory, the installation program automatically creates it for you. Do one of the following:

- Press **Enter** or type **next** (or **n** for short) to accept the current selection.
- Enter the *full path* to the directory in which you want to install the software, and press **Enter**. The Install Node Manager as a Windows Service prompt is displayed.

In the following situations, the installation program begins copying the components you specified to your system.

- You are performing a complete installation on a Windows platform,
- You are installing on a Windows platform and you do not have Administrator privileges,
- You are installing on a UNIX platform, or
- You are adding components to an existing installation

8. Specify whether you want to install Node Manager as a Windows service.

Do one of the following:

- Enter **1** to install node manager as a Windows service. Then, at the prompt, enter the listen port for the node manager, or press **Enter** to accept the default (5556). If the Listen Port number you specify is being used by a running application, the installation program prompts you to enter a different Node Manager Listen Port number. You are prompted to confirm your selection.
- Enter **2** if you do not want to install Node Manager as a Windows service.

The Choose Shortcut Location prompt is displayed.

9. Specify the folder in which you want to create the Start menu shortcuts.

Do one of the following:

- Type **1** or press **Enter** to create Start menu shortcuts in the All Users folder. This provides all users registered on the machine with access to the installed software. However, only users with Administrator privileges can create shortcuts in the All Users folder. Therefore, if a user without Administrator privileges uses the Configuration Wizard to create domains, Start menu shortcuts to the domains are not created. In this case, users can manually create shortcuts in their local Start menu folders, if desired.
- Type **2** to create shortcuts in your local user's Start menu folder. If you do so, other users registered on this machine will not have access to the Start menu entries for this installation.

You are prompted to confirm your selection.

-
10. Verify that your entry is correct, then type **1** or press **Enter** to proceed with the installation. Otherwise, type **2** to return to the previous panel, where you can modify your entry.

After you have verified your selection, the Installer displays a list of product components and JDKs to be installed. It also displays the estimated size of installation for the components displayed.

11. Press **Enter** to continue. The installation program begins copying the components you specified to your system.

Note: It is normal for the installation program to pause for a long time, especially toward the end. The installation program is still working while this occurs.

After the installation is complete, the following message is displayed:

```
Installation Complete
Congratulations! Installation is complete.
Press[Enter]to continue or type [Exit]>
```

Running the Installation Program in Silent Mode

The following sections describe how to run the installation program in silent mode:

- [Section 5.1, "What Is Silent-Mode Installation?"](#)
- [Section 5.2, "Using Silent-Mode Installation: Main Steps"](#)
- [Section 5.3, "Creating a silent.xml File for Silent-Mode Installation"](#)
- [Section 5.4, "Exit Codes for Silent Mode Installation"](#)

5.1 What Is Silent-Mode Installation?

Silent-mode installation is a way of setting installation configurations only once and then using those configurations to duplicate the installation on many machines. During installation in silent mode, the installation program reads the settings for your configuration from an XML file that you create before beginning the installation. The installation program does not display any configuration options during the installation process. Silent-mode installation works on both Windows and UNIX systems.

The instructions in this section are based on the assumption that you have already acquired the installation program either on DVD or from <http://edelivery.oracle.com>.

Note: You must use the package installer for silent-mode installation. Silent-mode installation is not supported with the net installer.

5.2 Using Silent-Mode Installation: Main Steps

The silent-mode installation process has two primary steps:

1. Create a `silent.xml` file that defines the configuration settings normally entered by a user during an interactive installation process, such as graphical-mode or console-mode installation. For example, values for the middleware home directory, the product directory, and the components to be installed are supplied in a `silent.xml` file.

For more information, see [Section 5.3, "Creating a silent.xml File for Silent-Mode Installation."](#)

2. Start the silent-mode installation process by using the values specified in the `silent.xml` file.

For information about starting the installation in silent mode, see [Section 2.2.3, "Starting the Installation Program in Silent Mode."](#)

Important Considerations for Silent-Mode Installation

When you are running the installation program in silent mode, keep in mind the following considerations:

- Silent-mode installation requires the same amount of temporary disk space and uses the same temporary storage directories as a standard installation. The installation program does not alert you if there is not enough space in the temporary directory.
- A silent-mode installation takes the same amount of time as a standard installation. At the beginning of a silent-mode installation, an initial installation program window or message is displayed briefly, indicating that the installation has started. No messages are displayed to indicate that the installation is in progress or has completed successfully.
- Incorrect entries in the `silent.xml` file can cause installation failures. To help you determine the cause of a failure, Oracle recommends that you create a log file when you start the installation.
- The XML definition (`<?xml version="1.0" encoding="UTF-8" ?>`) must be at the very beginning of the `silent.xml` file. Do not enter a space or line breaks before the XML definition.
- You cannot reinstall any WebLogic product on top of a previously installed version of the same product—in the same home directory or in the same file location. You can, however, add products and product components to an existing installation. For example, you can install WebLogic Server during one installation, and Oracle Enterprise Pack for Eclipse during a separate installation. To reinstall the same version of a product, you must first uninstall the previously installed instance of it or install the new instance in another location.

5.3 Creating a silent.xml File for Silent-Mode Installation

When you install your software in silent mode, the installation program uses an XML file (`silent.xml`) to determine which installation options should be implemented. Therefore, before you can run the installation program in silent mode, you must first create a `silent.xml` file in which you specify the installation options.

Note: Incorrect entries in the `silent.xml` file can cause installation failures. To help you determine the cause of a failure, We recommend that you create a log file when you start the installation.

To create a `silent.xml` file for use in the silent-mode installation process, follow these steps:

1. Copy the sample code provided in [Appendix A, "Sample silent.xml File for Silent-Mode Installation"](#) and paste the code in an XML file.
2. Save the file, with the name `silent.xml`, in the same directory that contains the installation program.

Note: The XML definition (`<?xml version="1.0" encoding="UTF-8" ?>`) must be at the very beginning of the silent.xml file. Do not enter a space or line breaks before the XML definition.

3. In the `silent.xml` file that you saved on your system, edit the values for the keywords to reflect your configuration.

For example, for the Oracle WebLogic Server installation, edit the values in the sample `silent.xml` file as shown in [Table 5-1](#).

Note: You must follow XML guidelines for characters when modifying values. That is, you cannot use characters reserved for use in XML, such as `<`, `>`, `[`, and `]`.

Table 5-1 Values for the Sample silent.xml File for Oracle WebLogic Server

Data-Value Name	Description
BEAHOME	The full path for the home directory of your choice. For more information about the home directory, see Section 1.5.1, "Choosing a Home Directory."
OCM_PROXY_HOST OCM_PROXY_PORT OCM_PROXY_USER OCM_PROXY_PASSWORD	These parameters enable support for Oracle Configuration Manager (OCM). If your computer connects to the internet via a proxy server, use these data-values to specify the host name, port number, user name, and password for the proxy server.
OCM_SUPPORT_EMAIL OCM_SUPPORT_PASSWORD	If you have a My Oracle Support account and want to receive security updates from Oracle, specify the email address and password for your My Oracle Support account. If you do not want to receive security updates from Oracle, do not specify these values.
WLS_INSTALL_DIR	The full path for the directory where you want to install Oracle WebLogic Server (for example, for Windows: <code>C:\MW_HOME\wlserver_10.3</code>).
COMPONENT_PATHS	Specify the components and subcomponents you want to install on your system. For example, to install Oracle WebLogic Server, use the following values: WebLogic Server/Core Application Server WebLogic Server/Administration Console WebLogic Server/Configuration Wizard and Upgrade Framework WebLogic Server/Web 2.0 HTTP Pub-Sub Server WebLogic Server/WebLogic JDBC Drivers WebLogic Server/Third Party JDBC Drivers WebLogic Server/WebLogic Server Clients WebLogic Server/WebLogic Web Server Plugins WebLogic Server/UDDI and Xquery Support WebLogic Server/Server Examples For additional information about entering these values, see Section 5.3.1, "Guidelines for Component Selection" .

Table 5–1 (Cont.) Values for the Sample silent.xml File for Oracle WebLogic Server

Data-Value Name	Description
INSTALL_NODE_MANAGER_SERVICE (Windows platforms only)	<ul style="list-style-type: none"> ■ yes to install the Oracle WebLogic Server Node Manager as a Windows service. ■ no to skip the installation of the Oracle WebLogic Server Node Manager as a Windows service. The default is no. <p>Note: You must have Administrator privileges to install Node Manager as a Windows service.</p>
NODEMGR_PORT	<p>The Node Manager listen port.</p> <p>If you do not specify a port number, the installer uses the default port 5556.</p> <p>If the port number is in use, the installer scans for the next available port and assigns it to the Node Manager.</p> <p>Note: The <code>INSTALL_NODE_MANAGER_SERVICE</code> option must be set to yes.</p> <p>At the completion of the installation process, the Node Manager is started using the port specified.</p>
INSTALL_SHORTCUT_IN_ALL_USERS_FOLDER	<ul style="list-style-type: none"> ■ true, or yes, to create the shortcuts in the All Users folder. The default is true. ■ false, or no, to create the shortcuts in the local users folder. <p>The user performing the installation must have administrator privileges to install the Start menu shortcuts in the All Users folder. For more information, see Section 1.4.3, "Administrator Privileges."</p>
LOCAL_JVMS	<p>This is an optional element with which you can specify the local JDKs to be installed. Enter the full path of the JDKs to be installed, separated by the pipe symbol (' ').</p>
BEA_BUNDLED_JVMS	<p>This is an optional element with which you can specify the Oracle-supplied JDKs to be installed. Enter the full path of the JDKs to be installed, separated by the pipe symbol (' ').</p>

5.3.1 Guidelines for Component Selection

Use the following guidelines when specifying values for the `COMPONENT_PATHS` data-value name:

- When you specify a product component to be installed, all subcomponents that are installed by default in a complete installation are also installed. For example, the following entry installs both Oracle WebLogic Server and the examples:

```
<data-value name="COMPONENT_PATHS" value="WebLogic Server" />
```

- To install multiple components, separate the components with a bar (|). Do not leave a space before or after the bar.

For example, to install Oracle WebLogic Server and Oracle Workshop for WebLogic, enter:

```
<data-value name="COMPONENT_PATHS" value="WebLogic Server|Oracle Enterprise Pack for Eclipse" />
```

- To specify subcomponents, you must specify a component/subcomponent combination for each entry.

For example, to install specific components of Oracle WebLogic Server and also install Oracle Enterprise Pack for Eclipse (which has no subcomponents), enter the following line in the file:

```
<data-value name="COMPONENT_PATHS" value=
"WebLogic Server/Core Application Server|
WebLogic Server/Administration Console|Oracle Enterprise Pack for Eclipse"/>
```

- If you do not include the `COMPONENT_PATHS` data-value name in the `silent.xml` file, the complete Oracle WebLogic Server (and Oracle Enterprise Pack for Eclipse, if you have the WebLogic Server installer which includes this product) are installed.

Note: The installation program performs dependency checking to ensure that all components that provide functionality on which other components depend for proper operation are installed. These dependencies are visible during graphical and console mode installations. The same dependencies are enforced during silent installation. Components on which other components depend are installed even if they are not explicitly referenced in a silent script.

5.4 Exit Codes for Silent Mode Installation

When run in silent mode, the installation program generates exit codes that indicate the success or failure of the installation.

Table 5–2 shows the exit codes.

Table 5–2 *Exit Codes for Silent Mode Installation*

Exit Code	Description
0	Installation completed successfully
-1	Installation failed due to a fatal error
-2	Installation failed due to an internal XML parsing error

If you launch the silent-mode installation process from a script, you can choose to have these exit codes displayed on the console.

Example 5–1 provides a sample command file that invokes the installation program in silent mode and echoes the exit codes to the console from which the script is executed.

Example 5–1 *Sample Command File Displaying Silent-Mode Exit Codes*

```
rem Execute the installer in silent mode
@echo off
server103_win32.exe -mode=silent -silent_xml=C:\downloads\silent.xml
-log=C:\logs\products_silent.log
@rem Return an exit code to indicate success or failure of installation
set exit_code=%ERRORLEVEL%

@echo.
@echo Exitcode=%exit_code%
@echo.
@echo Exit Code Key
@echo -----
@echo 0=Installation completed successfully
@echo -1=Installation failed due to a fatal error
```

```
@echo -2=Installation failed due to an internal XML parsing error
@echo.
```

Post-Installation Information

This section covers the following topics:

- [Section 6.1, "Using QuickStart"](#)
- [Section 6.2, "Determining Which JDK Version You Are Using"](#)
- [Section 6.3, "Creating an Oracle WebLogic Server Starter Domain"](#)
- [Section 6.4, "Understanding the Windows Shortcuts"](#)
- [Section 6.5, "Supported Configurations"](#)
- [Section 6.6, "Upgrading Oracle WebLogic Server"](#)
- [Section 6.7, "Installing Patches and Maintenance Updates"](#)

6.1 Using QuickStart

When the product installation is completed using graphical-mode installation, the QuickStart application is launched automatically, by default. If you do not want to run QuickStart at the completion of the installation process, you can clear the Run QuickStart check box in the Install Complete window. QuickStart is not invoked for console-mode or silent-mode installations.

QuickStart is designed to help first-time users evaluate, learn, and use Products software.

For example, the QuickStart application for Oracle WebLogic Server provides quick access to the following tasks:

- Getting started with Oracle WebLogic Server
- Starting the Oracle WebLogic Server samples domain
- Upgrading domains to the current version
- Accessing documentation online

After installation, you can launch QuickStart as follows:

- On Windows systems, choose **Start > Programs > Oracle WebLogic > QuickStart**.
- On UNIX systems, perform the following steps:
 1. Log in to the target UNIX system.
 2. Go to the `/common/bin` subdirectory of your installation. For example:

```
cd /MW_HOME/wlserver_version/common/bin
```
 3. Enter the following command:

```
sh quickstart.sh
```

6.2 Determining Which JDK Version You Are Using

You can determine which version of the JDK you are using by issuing a command, as follows:

1. Open a command prompt window and go to the appropriate directory:

Windows: `MW_HOME\WL_HOME\server\bin`

UNIX: `MW_HOME/WL_HOME/server/bin`

2. Make sure that your environment is set up properly by entering the following command at the prompt:

Windows: `setWLSenv.cmd`

UNIX: `setWLSenv.sh`

3. Enter the following command at the prompt: `java -version`

If you are using JRockit, `JRockit (R)` is displayed in the output.

6.3 Creating an Oracle WebLogic Server Starter Domain

After you install WebLogic Server, you can create a WebLogic Server domain by using the starter domain template, `wls_starter.jar`, which is available in the `MW_HOME\WL_HOME\common\templates\domains` folder.

The `wls_starter.jar` template contains the default domain configuration settings and an application that provides a welcome page to help you get started.

For more information about creating a domain by using an existing domain template, see "Creating a WebLogic Domain" in *Oracle Fusion Middleware Creating Domains Using the Configuration Wizard*.

6.4 Understanding the Windows Shortcuts

When you install your software on a Windows system, the installation program automatically creates shortcut entries on the Start Menu.

Note: If the user performing the installation has Administrator privileges, the shortcut entries can be created in the All Users Start menu folder or in the user's local Start menu folder. For more information, see [Section 1.4.3, "Administrator Privileges."](#)

The options in the **Start > Programs > Oracle WebLogic** menu vary, according to the components you choose to install.

- **WebLogic Server 11gR1:** Contains a shortcut for launching the default Oracle WebLogic Server domain, examples, tools, online documentation. The Server domain enables you to run pre-built Oracle WebLogic Server code samples, deploy Java EE applications, and quickly serve JSPs or HTML pages. You can also use this domain as a place to test your applications during development.

Examples contain a folder for each component installed on your system that contain shortcuts for launching the examples and associated tools for the component.

Tools contain a folder for each component installed on your system that contains shortcuts for launching the examples and associated tools for the component.

- **Online Documentation:** Provides a link to the online documentation.
- **QuickStart:** Starts the QuickStart application designed to assist first-time users in evaluating, learning, and using the Products software.
- **Smart Update:** Launches the Smart Update program, which checks for any updates available for installed products, and installs the updates as required.
- **Uninstall Oracle WebLogic:** Launches the uninstallation program. For more information, see [Chapter 7, "Uninstalling the Software."](#)

6.5 Supported Configurations

For complete details about the hardware and software configurations supported by Oracle WebLogic Server, see the Oracle Fusion Middleware Supported System Configurations page at

http://www.oracle.com/technology/software/products/ias/files/fusion_certification.html. This document describes supported operating systems, Web servers, browsers, firewalls, database configurations, and other tools and configurations.

6.6 Upgrading Oracle WebLogic Server

If you are upgrading your Oracle WebLogic Server installation from an earlier version, see *Oracle Fusion Middleware Upgrade Guide for Oracle WebLogic Server*. This document explains how to upgrade the entire Oracle WebLogic Server environment, including applications, the WebLogic domains in which they are deployed, and any application data associated with the domain, and may include external resources, such as database servers, firewalls, load balancers, and LDAP servers.

6.7 Installing Patches and Maintenance Updates

Smart Update is a standalone Java application that is automatically installed in the Middleware Home directory. Smart Update simplifies the process of applying patches and maintenance updates to your Oracle WebLogic Server installation. When support makes a patch or maintenance update available for an installed version of Oracle WebLogic Server, you use Oracle Smart Update to obtain that update and apply it to your installation. Smart Update organizes all available maintenance for you, and has several features that allow a great deal of customizing in the way various patches and other maintenance updates are applied and managed in your environment.

For information about using Smart Update, see *Oracle Smart Update Installing Patches and Maintenance Packs*.

Uninstalling the Software

The following sections provide procedures for uninstalling the software:

- [Section 7.1, "About the Uninstallation Program"](#)
- [Section 7.2, "Uninstalling Your Software in Graphical Mode"](#)
- [Section 7.3, "Uninstalling Your Software in Console Mode"](#)
- [Section 7.4, "Uninstalling Your Software in Silent Mode"](#)
- [Section 7.5, "Reinstalling Your Software"](#)

7.1 About the Uninstallation Program

The following sections describe how to uninstall your software on Windows and UNIX systems. You can uninstall the software using graphical, console, or silent mode. To run the graphical-mode uninstallation program, your console must support Java-based GUIs. If the uninstallation program determines that your system cannot support Java-based GUIs, it automatically starts running in console mode.

You can uninstall individual components of your product distribution, or the entire installation. Dependency checking in the uninstaller ensures that the appropriate components are uninstalled.

The uninstallation program does not remove the home directory associated with the installation, the JDK, or any user-created domains. Only the components that were installed by the installation program can be removed. If you choose to uninstall the entire installation, the uninstallation program also removes the product directory associated with the installation *unless* any of the following is true:

- The product directory contains user-created configuration or application files. The uninstallation program does not delete user-created configuration files, application files, or domains.
- The complete installation was not uninstalled. If an individual component is uninstalled, only the installation directory for that component is removed; the installation directories for other components are unaffected.
- The uninstallation program was invoked from within the product directory structure—specifically, from the `uninstaller` directory.

7.2 Uninstalling Your Software in Graphical Mode

Use the following procedure to uninstall the complete product installation, or individual components, in graphical mode:

1. Shut down any servers that are running. If any of these servers is configured as a Windows service, you should stop the service(s) before uninstalling the software.
2. Start the uninstallation program as described in [Table 7-1](#).

Table 7-1 Starting the Uninstallation Program in Graphical Mode

Platform	Procedure
Windows	<ol style="list-style-type: none"> 1. From the Windows Start menu, choose Start > Programs > Oracle WebLogic > Uninstall Oracle WebLogic. The Oracle Uninstaller Welcome window is displayed. 2. Proceed to step 3, after this table.
UNIX	<ol style="list-style-type: none"> 1. Go to the following directory: <code>MW_HOME\utils\uninstall</code> Here <code>MW_HOME</code> represents the directory in which you have installed your software. 2. Enter <code>uninstall.sh</code> at the prompt. The Oracle Uninstaller Welcome window is displayed. Note: If your system supports a graphical user interface, the uninstallation program starts in graphical mode. If your system does not support a graphical user interface, the uninstallation program starts in console mode. If console mode is started, see Section 7.3, "Uninstalling Your Software in Console Mode" for instructions.

3. Click **Next** to start the uninstall program.
The **Choose Components** window is displayed.
4. Select the components to uninstall by selecting or clearing the appropriate check boxes. Then click **Next**. By default, all installed components are selected, indicating that they will be removed.
5. Optionally, click **Details** to view the log file that lists the uninstalled components.
6. Click **Done** in the **Uninstalling Oracle Products** window to exit the uninstallation program.

7.3 Uninstalling Your Software in Console Mode

Use the following procedure to uninstall the complete product installation, or individual components, using the command-line interface:

1. Shut down any servers that are running. If any of these servers is configured as a Windows service, you should stop the service(s) before uninstalling the software.
2. Start the uninstallation program as described in [Table 7-2](#).

Table 7–2 Starting the Uninstallation Program in Console Mode

Platform	Procedure
Windows	<ol style="list-style-type: none"> Open a command prompt window and go to the following directory: <code>MW_HOME\utils\uninstall</code> Here <code>MW_HOME</code> represents the directory in which you have installed your software. Enter the following command at the prompt: <code>uninstall -mode=console</code> The Welcome text is displayed.
UNIX	<ol style="list-style-type: none"> Go to the following directory: <code>MW_HOME\utils\uninstall</code> Here <code>MW_HOME</code> represents the directory in which you have installed your software. At the prompt, enter the following command: <code>sh uninstall.sh -mode=console</code> The welcome text is displayed.

- Press **Enter** or type **next** to proceed to the next panel of the uninstallation program.

Note: Instead of typing complete words when you want to enter [Exit], [Previous], and [Next], you can use the following one-letter shortcuts: x, p, and n, respectively.

The **Choose Components to uninstall** panel is displayed.

- Select the components you want to uninstall.

By default, all installed components are selected, indicating that they will be removed.

Note: If you have installed your software using the installation program for Oracle WebLogic Server, only the Oracle WebLogic Server components are displayed.

To leave a component installed on your system, enter the numeric code for that component on the command line, exactly as it appears within the brackets.

Dependency checking is performed to ensure that you do not uninstall a component that is required by another component.

- Press **Enter** or type **next** to proceed with the uninstallation process.
- When the uninstallation process is complete, press **Enter** or type **exit** to complete the uninstallation and exit the uninstallation program.

7.4 Uninstalling Your Software in Silent Mode

When you uninstall your Products software in silent mode, the complete installation of your software is uninstalled.

When you run the uninstallation program in silent mode, it leaves behind the same files and directories as when you run the uninstallation program in graphical and console modes, including:

- The home directory, including the `logs` and `utils` subdirectories
- The JDK, if it was installed with your product
- Domain directories, including those in `user_projects`
- Any other file created or modified after your software was installed

You can manually delete these files.

Although you can use silent-mode uninstallation to manually uninstall your software, silent-mode uninstall is intended for use in scripts. You can follow the steps in [Table 7-3](#) for use in scripts.

Use the following procedure to uninstall your Products software in silent mode:

1. Shut down any servers that are running. If you configured any of the servers as a Windows service, you must stop the service(s) before uninstalling the software.
2. Start the uninstallation program as described in [Table 7-3](#).

Table 7-3 Starting the Uninstallation Program in Silent Mode

Platform	Procedure
Windows	<ol style="list-style-type: none"> 1. Open a command prompt window and go to the following directory: <code>MW_HOME\utils\uninstall</code> Here <code>MW_HOME</code> represents the directory in which you have installed your software. 2. Enter the following command at the prompt: <code>uninstall -mode=silent</code>
UNIX	<ol style="list-style-type: none"> 1. Go to the following directory: <code>MW_HOME\utils\uninstall</code> Here <code>MW_HOME</code> represents the directory in which you have installed your software. 2. At the prompt, enter the following command: <code>sh uninstall.sh -mode=silent</code>

Note: When you run the uninstallation program in silent mode, no messages are displayed indicating the uninstallation is in progress or has completed successfully, even if errors are encountered.

You can include the `-log=full_path_to_log_file` option in the command line to create a verbose installation log. For example:

```
uninstall -mode=silent -log=C:\logs\weblogic_uninstall.log
```

7.5 Reinstalling Your Software

You cannot reinstall the same version of a product on top of a previously installed version of the same product, in the same home directory or in the same file location. However, you can add products and product components to an existing installation. For example, you can install WebLogic Server during one installation, and Oracle Enterprise Pack for Eclipse during a separate installation.

To reinstall the same version of a product component or an entire product distribution in the same location, you must first uninstall the previous installation.

If you try to install a complete copy of a product in a home directory that contains a complete installation, an error message is displayed. Click or type **OK** to return to the **Choose Middleware Home directory** prompt.

At the prompt, choose one of the following options:

- To continue installing the software using a different home directory, select an existing home directory that does not contain a previous installation, or create a home directory.
- Exit the installation program. To reinstall your software in the same home, you must uninstall the previous installation.

You can start the uninstall program appropriate for your platform, as described in the following sections:

- [Section 7.2, "Uninstalling Your Software in Graphical Mode"](#)
- [Section 7.3, "Uninstalling Your Software in Console Mode"](#)
- [Section 7.4, "Uninstalling Your Software in Silent Mode"](#)

Then, install the software as described in [Chapter 2, "Starting the Installation Program."](#)

Sample silent.xml File for Silent-Mode Installation

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Silent installer option: -mode=silent -silent_xml=C:\bea\silent.xml -->
<!-- Specify values for each data-value name as follows:

BEAHOME          Complete pathname to the BEA Home directory that
                  will contain this installation.

WLS_INSTALL_DIR  Complete pathname to the product installation
                  directory in which to install WebLogic Server.

COMPONENT_PATHS  Components and subcomponents to be installed.
                  To install multiple components, separate the components
                  with a bar (|).
                  To install subcomponents, specify a
                  component/subcomponent combination. For example,
                  to install Core Application Server, use
                  "WebLogic Server/Core Application Server".

INSTALL_NODE_MANAGER_SERVICE  Install Node Manager as a Windows
                               service. The default is "no".
                               Requires Administrator privileges.

NODEMGR_PORT     Node Manager listen port number. If none specified,
                  installer uses default port 5556.
                  INSTALL_NODE_MANAGER_SERVICE must be set to "yes".

INSTALL_SHORTCUT_IN_ALL_USERS_FOLDER
                  The Windows Start menu folder in which you want the
                  Start menu shortcuts created.
                  The user performing the installation must have
                  Administrator privileges to install the shortcuts
                  in the All Users folder.
                  Possible values:
                  true/yes  The shortcuts are created in
                              the All Users folder (default)
                  false/no  The shortcuts are created in
                              the local user's folder

BEA_BUNDLED_JVMS  Option to select BEA bundled JVMs (for e.g. either
                  jrockit_160_05 or jdk160_05 for Windows and Linux
                  platforms). The default value is all BEA bundled JVMs
                  for selected platform.
```

LOCAL_JVMS

Option to select supported JVM, which is already installed. Note: The presence of either (BEA_BUNDLED_JVMS or LOCAL_JVMS) or both of these tokens negates any default selection and only sets the values assigned for these tokens as user selection. The value of the token can be a pipe ('|') separated JavaHomes.

See the Installation Guide for more information.

```
<?xml version="1.0" encoding="UTF-8"?>
<bea-installer>
  <input-fields>
    <data-value name="BEAHOME" value="D:\Oracle\Middleware_Home" />
    <data-value name="WLS_INSTALL_DIR" value="D:\Oracle\Middleware_
Home\wlserver_10.3" />
    <data-value name="COMPONENT_PATHS"
value="WebLogic Server/Core Application Server|WebLogic Server
/Administration Console|WebLogic Server/Configuration Wizard and Upgrade
Framework|WebLogic Server/Web 2.0 HTTP Pub-Sub Server|WebLogic Server/WebLogic
JDBC Drivers|WebLogic Server/Third Party JDBC Drivers|WebLogic Server
/WebLogic Server Clients|WebLogic Server/WebLogic Web Server Plugins
|WebLogic Server/UDDI and Xquery Support|WebLogic Server/Server Examples" />
    <data-value name="INSTALL_NODE_MANAGER_SERVICE" value="yes" />
    <data-value name="NODEMGR_PORT" value="5559" />
    <data-value name="INSTALL_SHORTCUT_IN_ALL_USERS_FOLDER" value="yes"/>
    <!--
    <data-value name="LOCAL_JVMS" value="D:\jrockit_160_05|D:\jdk160_11"/>
    -->
  </input-fields>
</bea-installer>
```