



BEA WebLogic Server™ and WebLogic Express™

Installation Guide

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About This Document

This document explains how to install BEA WebLogic Server™ on both Windows and UNIX systems.

This document is organized as follows:

- [Chapter 1, “Preparing to Install WebLogic Server,”](#) provides the basic information you need to know before installing WebLogic Server.
- [Chapter 2, “Installing WebLogic Server Using Graphical-Mode Installation,”](#) describes how to install the WebLogic Server software on Windows and UNIX systems using a Java-based graphical user interface (GUI).
- [Chapter 3, “Installing WebLogic Server Using Console-Mode Installation,”](#) discusses how to install WebLogic Server on Windows and UNIX systems using a text-based interface.
- [Chapter 4, “Installing WebLogic Server Using Silent-Mode Installation,”](#) describes how to install WebLogic Server without user intervention by using a template file during the installation process.
- [Chapter 5, “Installing and Updating a WebLogic Server License,”](#) explains how to install and update your WebLogic Server license file.
- [Chapter 6, “Installing WebLogic Server Service Packs and Rolling Patches,”](#) describes how to launch Smart Update and check for available service packs.
- [Chapter 7, “Performing Post-Installation Tasks,”](#) provides information about Windows shortcuts and files and folders installed with WebLogic Server, and how to start the Examples and Pet Store servers and the Administration Console.

- [Chapter 8, “Uninstalling WebLogic Server,”](#) explains how to uninstall WebLogic Server in graphical and console mode.

e-docs Web Site

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

How to Print the Document

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

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

Adobe Acrobat Reader is available at no charge from the Adobe Web site at <http://www.adobe.com>.

Related Information

The BEA corporate Web site provides all documentation for WebLogic Server. Other WebLogic Server documents that you may find helpful when installing the WebLogic Server software are:

- [Introduction to BEA WebLogic Server](#) at <http://e-docs.bea.com/wls/docs70/intro/index.html>
- [Administration Guide](#) at <http://e-docs.bea.com/wls/docs70/adminguide/index.html>
- [Developing WebLogic Server Applications](#) at <http://e-docs.bea.com/wls/docs70/programming/index.html>

Introduction to BEA WebLogic Server includes a description of the BEA WebLogic Express™ software, which incorporates the presentation and database access services from WebLogic Server.

Contact Us!

Your feedback on BEA documentation is important to us. Send us e-mail at docsupport@bea.com if you have questions or comments. Your comments will be reviewed directly by the BEA professionals who create and update the documentation.

In your e-mail message, please indicate the software name and version you are using, as well as the title and document date of your documentation. If you have any questions about this version of BEA WebLogic Server, or if you have problems installing and running BEA WebLogic Server, contact BEA Customer Support through the BEA Customer Support Web site at <http://support.bea.com>. You can also contact Customer Support by using the contact information provided on the Customer Support Card, which is included in the product package.

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

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

Documentation Conventions

The following documentation conventions are used throughout this document.

Convention	Usage
Ctrl+Tab	Keys you press simultaneously.
<i>italics</i>	Emphasis and book titles.

Convention	Usage
monospace text	Code samples, commands and their options, Java classes, data types, directories, and filenames and their extensions. Monospace text also indicates text that you enter from the keyboard. <i>Examples:</i> import java.util.Enumeration; chmod u+w * config/examples/applications .java config.xml float
<i>monospace italic text</i>	Variables in code. <i>Example:</i> String CustomerName;
UPPERCASE TEXT	Device names, environment variables, and logical operators. <i>Examples:</i> LPT1 BEA_HOME OR
{ }	A set of choices in a syntax line.
[]	Optional items in a syntax line. <i>Example:</i> java utils.MulticastTest -n name -a address [-p portnumber] [-t timeout] [-s send]
	Separates mutually exclusive choices in a syntax line. <i>Example:</i> java weblogic.deploy [list deploy undeploy update] password {application} {source}

Convention	Usage
. . .	Indicates one of the following in a command line: <ul style="list-style-type: none">• An argument can be repeated several times in the command line.• The statement omits additional optional arguments.• You can enter additional parameters, values, or other information
.	Indicates the omission of items from a code example or from a syntax line.

About This Document

Preparing to Install WebLogic Server

BEA WebLogic Server™ implements J2EE 1.3 technologies, Web services, and other leading Internet standards to provide a reliable framework for highly available, scalable, and secure applications. WebLogic Server includes BEA WebLogic Workshop™, which is a graphical development environment in which you can easily build Web services that automatically leverage the power, reliability, and scalability of WebLogic Server.

With the release of WebLogic Server 7.0 Service Pack 2, the BEA WebLogic JRockit™ SDK is bundled with WebLogic Server for Windows and Linux platforms. The WebLogic JRockit SDK was developed and optimized for server-side applications and supports Intel architectures.

WebLogic Server and WebLogic Workshop are also available as part of the BEA WebLogic Platform™. For more information about Weblogic Platform, see the [Weblogic Platform online documentation](http://e-docs.bea.com/platform/docs70/index.html) at <http://e-docs.bea.com/platform/docs70/index.html>.

The following sections provide information that you need to know before installing WebLogic Server:

- “Audience” on page 1-2
- “The BEA WebLogic Server Installation Program” on page 1-2
- “WebLogic Server Distribution Methods” on page 1-3
- “About BEA WebLogic JRockit 7.0” on page 1-6
- “Installation Prerequisites” on page 1-7
- “Choosing the Type of Installation” on page 1-11
- “Selecting Directories for the WebLogic Server Installation” on page 1-13

- “Generating a Verbose Installation Log” on page 1-16
- “Where to Find Upgrade and Migration Information” on page 1-17
- “Introducing Smart Update” on page 1-17

Audience

This document is written for system administrators or application developers who are installing the latest version of WebLogic Server software. It is assumed that readers know Web technologies and have a general understanding of Windows and UNIX systems.

WebLogic Server is available as a separate product (including WebLogic Workshop) and as a component in WebLogic Platform. Use this document if you are installing WebLogic Server as a separate product or if you are installing only the Weblogic Server component (including WebLogic Server with WebLogic Workshop and related samples) of Weblogic Platform. This document does *not* discuss installation of the entire WebLogic Platform. If you are installing WebLogic Server with additional WebLogic Platform components, refer to the [WebLogic Platform Installation Guide](http://e-docs.bea.com/platform/docs70/install/index.html) at <http://e-docs.bea.com/platform/docs70/install/index.html>.

If you are upgrading to WebLogic Server 7.0 from WebLogic Server 6.1 or earlier, see the [WebLogic Server 7.0 Upgrade Guide](http://e-docs.bea.com/wls/docs70/upgrade/index.html) at <http://e-docs.bea.com/wls/docs70/upgrade/index.html>.

The BEA WebLogic Server Installation Program

BEA WebLogic Server 7.0 is distributed and installed using the BEA Installation and Distribution System, which provides a complete framework for the following:

- Simplified distribution of BEA products via download from the BEA Web site.
- Installation and uninstallation of the entire WebLogic Server product, or individual components as desired.
- Simplified mechanism for obtaining and installing product upgrades using Smart Update.
- Ability to create WebLogic domains using a Configuration Wizard that can be invoked at the end of the installation process. For full details on the Configuration Wizard, see [Creating New Domains Using the Configuration Wizard](http://e-docs.bea.com/wls/docs70/admin_domain/configwiz.html) in *Creating and Configuring WebLogic Server Domains* at http://e-docs.bea.com/wls/docs70/admin_domain/configwiz.html. Detailed descriptions of the domain templates provided with the WebLogic Platform installation program are provided in the [Configuration Wizard Template Reference](http://e-docs.bea.com/platform/docs70/template/index.html) at <http://e-docs.bea.com/platform/docs70/template/index.html>.

WebLogic Express Support

You can also use the WebLogic Server installation program to install the BEA WebLogic Express™ solution, which is the entry-level Web application server offered by BEA. For additional information about WebLogic Express, see [Introduction to BEA WebLogic Server](http://e-docs.bea.com/wls/docs70/intro/index.html) at <http://e-docs.bea.com/wls/docs70/intro/index.html>.

Installation Methods

The BEA installation program supports the following methods for installing the BEA WebLogic Server software:

- *Graphical mode*

Graphical-mode installation is an interactive, GUI-based method for installing WebLogic Server. It can be run on both Windows and UNIX systems. See [Chapter 2, “Installing WebLogic Server Using Graphical-Mode Installation.”](#)

Note: To run graphical-mode installation, 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 a graphical display, the installation program automatically starts console-mode installation.

- *Console mode*

Console-mode installation is an interactive, text-based method for installing WebLogic Server from the command line on both Windows and UNIX systems. See [Chapter 3, “Installing WebLogic Server Using Console-Mode Installation.”](#)

- *Silent mode*

Silent-mode installation is a non-interactive method of installing WebLogic Server that uses an XML properties file for selecting installation options. You can run silent-mode installation as part of a script or from the command line. See [Chapter 4, “Installing WebLogic Server Using Silent-Mode Installation.”](#)

WebLogic Server Distribution Methods

WebLogic Server is distributed on both the BEA Web site and on CD-ROM.

Web Distribution of WebLogic Server

You can download the WebLogic Server 7.0 software from the BEA Web site at

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

Two methods are available for download:

- Package installer—downloads a standalone version of the installation program that contains all of the WebLogic Server software components: server (which includes WebLogic Workshop) and server samples (approximately 150 MB).

Note: You must use the package installer option if you are planning to install the software using silent-mode installation. Silent-mode installation is not supported with the net installer option.

- Net installer—downloads a setup file (approximately 18MB) to install the complete BEA WebLogic Platform™, which includes WebLogic Server and Weblogic Workshop, as well as BEA WebLogic Integration™, and BEA WebLogic Portal™. You can choose to install only WebLogic Server with WebLogic Workshop, as described in “[Custom Installation](#)” on page 1-12.

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

- A storage directory—The installation program downloads an archive file to your system for each component that you choose to install. You need to specify a directory to which you want to download these archive files.
- HTTP Proxy—if you want to download these archive files using an HTTP proxy, you must specify the Host address and port numbers for the proxy server.

The net installer supports standard resume-processing in the case of interrupted downloads. If the download is interrupted for any reason, either manually or 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 downloaded correctly.

CD-ROM Distribution of WebLogic Server

If you purchased WebLogic Server from your local sales representative, you will find the following items in the WebLogic Server product box:

- Five CD-ROMs:
 - Disk 1 of 4 contains the BEA WebLogic Server 7.0 SP2 product software for Windows, Solaris, and Linux with the Sun Java 2 SDK

- Disk 2 of 4 contains the BEA WebLogic Server 7.0 SP2 product software for Windows and Linux with the JRockit Java 2 SDK
- Disk 3 of 4 contains the BEA WebLogic Server 7.0 SP1 product software for HP-UX and AIX
- Disk 4 of 4 contains BEA WebLogic Server 7.0 Online Documentation
- The following printed documents:
 - *Installation Guide* (this document)
 - *Introduction to BEA WebLogic Server*
 - BEA WebLogic Server *Release Notes*
 - *BEA Software License and Limited Warranty* pamphlet
 - *Customer Support Quick Reference and Other Important Information* card

You can also access the WebLogic Server Online Documentation at

<http://e-docs.bea.com/wls/docs70/index.html>.

Web Distribution of Service Packs and Rolling Patches

Service Packs and rolling patches, if any, are included in the latest distributions of WebLogic Server 7.0, which are available as described in “[WebLogic Server Distribution Methods](#)” on page 1-3. If you have not already installed WebLogic Server 7.0, you should install the latest distribution.

If you already have WebLogic Server 7.0.0.0 installed *and* if you have a BEA eSupport account, to upgrade your software, you can download a package upgrade installer from the BEA Customer Support Web site at <http://support.bea.com>.

If you already have WebLogic Server 7.0.0.1 (the version available as part of WebLogic Platform) or later installed *and* if you have a BEA eSupport account, you can upgrade your software in one of the following ways:

- Use the Smart Update feature (recommended) to retrieve and install software updates from the BEA Web site. Smart Update downloads only the updates for the components currently installed in the target BEA Home directory.

Note: Smart Update upgrades your Windows installation to use the Sun Java 2 SDK and your Linux installation to use the WebLogic JRockit SDK. If you want to use a different SDK, you should use a WebLogic Platform upgrade installer that is bundled with the appropriate SDK or change the SDK, as described in “Switching JVMs in WebLogic Platform” in the *WebLogic Platform Release Notes*, at the following URL:

<http://e-docs.bea.com/platform/docs70/relnotes/relnotes.html#nonbundledJVM>

- Download the package upgrade installer from the BEA Customer Support Web site at <http://support.bea.com>.

Details about installing WebLogic Server service packs and rolling patches are provided in [Chapter 6, “Installing WebLogic Server Service Packs and Rolling Patches.”](#)

If you do *not* have a BEA eSupport account, you can register for one at on the BEA Customer Support Web site at <http://support.bea.com>.

About BEA WebLogic JRockit 7.0

BEA WebLogic JRockit™ was developed and optimized for server-side applications and supports Intel architectures. In BEA WebLogic Server 7.0 SP2 and later, the WebLogic JRockit 7.0 SDK is packaged with the WebLogic Server software.

Note: WebLogic JRockit 7.0 is certified by Sun Microsystems, Inc. to be compatible with Java 2 Standard Edition (J2SE), version 1.3.1.

The WebLogic Server/JRockit software packages are available for download at http://commerce.bea.com/downloads/weblogic_server.jsp and on CD-ROM in the BEA WebLogic Server product box.

To install the WebLogic Server/JRockit packages, use the installation procedures described in the following chapters:

- [Chapter 2, “Installing WebLogic Server Using Graphical-Mode Installation”](#)
- [Chapter 3, “Installing WebLogic Server Using Console-Mode Installation”](#)
- [Chapter 4, “Installing WebLogic Server Using Silent-Mode Installation”](#)

Note: You cannot download WebLogic Server/JRockit packages using the net download installer.

When you install a WebLogic Server 7.0/JRockit package, two JVMs are installed on your system: the WebLogic JRockit JVM, optimized for server-side applications, and the Sun Hotspot Client JVM, provided for optional use by client-side applications. In WebLogic Server 7.0 SP2 and later, a convenient script, `commEnv`, is installed that allows you to define environment variables that determine whether a client or server JVM should be run. For additional information, see “Specifying JVM Options in WebLogic Platform 7.0 SP2 and Later” in the [BEA WebLogic Platform Release Notes](#) at <http://e-docs.bea.com/platform/docs70/relnotes/relnotes.html>.

If you install WebLogic Server 7.0 with the Sun Java 2 SDK and you want to change your installation to use the WebLogic JRockit 7.0 SDK, see “Switching JVMs in WebLogic Platform” in the [BEA WebLogic Platform Release Notes](#) for instructions.

For more information about WebLogic JRockit, see the [JRockit documentation](#) at <http://e-docs.beasys.com/wljrockit/docs70/index.html>.

Note: The installation instructions provided in *BEA WebLogic JRockit™ 7.0 for Windows and Linux Installation and Migration Guide* describe how to install JRockit as a standalone SDK and do not apply to the WebLogic Server/JRockit bundles.

Installation Prerequisites

Review these requirements before installing WebLogic Server:

- “System Requirements” on page 1-7
- “Temporary Storage Space Requirements” on page 1-9
- “Administrator Privileges” on page 1-10
- “Licensing and Encryption” on page 1-10

System Requirements

[Table 1-1](#) lists the system requirements for WebLogic Server.

Table 1-1 WebLogic Server System Requirements

Component	Requirement
Certified server platform	<p>A certified WebLogic Server platform. See the Supported Configurations page at http://e-docs.bea.com/platform/suppconfigs/index.html. This page includes the recommended Java run-time environment versions and, when appropriate, other prerequisites or recommendations, such as operating system patches, kernel configuration values, and performance packs.</p> <p>For more information about performance packs, see “Using WebLogic Server Performance Packs” in the <i>Performance and Tuning Guide</i> at http://e-docs.bea.com/wls/docs70/perform/WLSTuning.html#wlstuning-PerformPacks.</p>
Hard disk drive	<p>For a WebLogic Server 7.0 installation on a Windows system—about 236 MB* free storage space for the installed product and about 170 MB of temporary storage space required by the installer (for either the net installer or the package installer).</p> <p>For a WebLogic Server 7.0 installation on a UNIX system—about 196 MB** free storage space for the installed product and about 162 MB of temporary storage space required by the installer.</p>
Memory	For a Windows or UNIX system, 256 MB of RAM minimum; 512 MB or more is recommended.
Color bit depth display	<p>For graphical-mode installation, 8-bit color depth (256 colors).</p> <p>For console-mode and silent-mode installation, there is no color bit depth requirement.</p>

Table 1-1 WebLogic Server System Requirements

Component	Requirement
Java 2 SDK	<p>The WebLogic Server installation program requires a Java run-time environment (JRE) to run. A Java 2 Software Development Kit (SDK), which includes a JRE, is bundled in the Windows installation program and in some UNIX installation programs (those with filenames ending in <code>.bin</code>). For other UNIX platforms, the WebLogic Server installation program does not include the Java 2 SDK in the installation program. Filenames 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 Java 2 SDK installed on your system, and include the <code>bin</code> directory of the SDK at the front of the <code>PATH</code> variable. It is important that you use an SDK because the installation process sets the <code>JAVA_HOME</code> and related variables to point to this directory. For procedures, see one of the following:</p> <ul style="list-style-type: none"> • “Starting Graphical-Mode Installation for .jar Installation Files” on page 2-4 • “Starting Console-Mode Installation for .jar Installation Files” on page 3-5
<p>* Includes 35 MB for the Java 2 SDK and 36 MB for examples and samples.</p> <p>** Includes 50 MB for the Java 2 SDK and 32 MB for examples and samples.</p>	

Temporary Storage Space Requirements

The BEA installation program uses a temporary directory in which it extracts the files necessary to install WebLogic Server 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 at the end of the installation process. As a general rule, installation programs require approximately 2.5 times the amount of temporary space the installed files require.

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

- Windows platforms—Directory referenced by the `TEMP` system variable
- UNIX platforms—`/tmp` directory

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

To ensure there is adequate temporary space, you may want to allocate an alternate directory for use as a temporary directory for the installation. To do so, follow the instructions provided in [Table 1-2](#).

Table 1-2 Meeting Temporary Space Requirements

On this platform . . .	Perform this step . . .
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 starting the installation program from the command line, enter the <code>-Djava.io.tmpdir=tmpdirpath</code> option on the command line. In this option, <i>tmpdirpath</i> is the full path of the directory that you want to use to temporarily store files used by the WebLogic Server installation program.
UNIX	<p>Enter the following option on the command line when you start the installation program:</p> <p><code>-Djava.io.tmpdir=tmpdirpath</code></p> <p>Where <i>tmpdirpath</i> is the full path of the directory that you want to use to temporarily store files used by the WebLogic Server installation program.</p>

Administrator Privileges

If you choose to run the Configuration Wizard (launched as part of a custom installation) to create user domains, you can install the server as a Windows service. When a server is installed as a Windows service, it starts automatically each time you boot your Windows system. You must have *Administrator* privileges to install the server as a Windows service.

For additional information, see “[Setting Up WebLogic Server as a Windows Service](#)” in the *BEA WebLogic Server Administration Guide* at <http://e-docs.bea.com/wls/docs70/adminguide/startstop.html#SettingUpServerAsWindowsService>.

Licensing and Encryption

The WebLogic Server software cannot be used without a valid license. When you install WebLogic Server, the installation program creates an evaluation license with access for up to 20 client connections. After the evaluation period, you can purchase a development or production license. For information about the licenses available for WebLogic Server and for other WebLogic Platform components, see the [Licensing](#) page on the E-docs web site at <http://e-docs.bea.com/platform/docs70/interm/license.html>

Licenses for pre-7.0 versions of WebLogic Server will not work with WebLogic Server 7.0. You must upgrade your license to a 7.0 `license.bea` format. Procedures for upgrading a license file and installing permanent licenses are provided in [Chapter 5, “Installing and Updating a WebLogic Server License.”](#)

About 128-Bit Encryption

Secure sockets layer (SSL) encryption software is available with two levels of encryption: 56-bit and 128-bit. Licenses for the 128-bit client version of SSL are available in the United States and Canada. With proper authorization, customers outside the United States and Canada may also acquire licenses with 128-bit encryption enabled.

A WebLogic Server license comes with 56-bit encryption enabled by default. Enabling 128-bit encryption for SSL requires that a 128-bit encryption license be present in the `license.bea` file of the target BEA Home directory *before* you install the WebLogic Server software.

For instructions about how to install the 128-bit encryption license, see [“Enabling 128-Bit Encryption” on page 5-4.](#)

Choosing the Type of Installation

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

Typical Installation

Results of a typical installation depend on the software distribution method:

- CD-ROM or download with the package installer option

If you acquired the WebLogic Server installation program on a CD-ROM or by downloading the package installation program, a typical installation installs the WebLogic Server and WebLogic Workshop program files as well as all related sample files.

- Net installer

If you downloaded the net installer version of the WebLogic Server installation program, a typical installation installs all components and samples included in WebLogic Platform, which includes WebLogic Server with WebLogic Workshop, BEA WebLogic Integration™, and BEA WebLogic Portal™ (about 295 MB). To install WebLogic Server without WebLogic Integration and WebLogic Portal when using a net installer, you must select the Custom installation option. See [“Custom Installation” on page 1-12.](#)

Note: The Configuration Wizard is not invoked in a typical installation, regardless of the download option you select. If you select the typical installation option, you can manually launch the Configuration Wizard from the Start menu (Windows only) or with a command line script. See [“Configuring Domains, Servers, and Clusters with the Configuration Wizard” on page 2-10.](#)

Custom Installation

A custom installation allows you to choose exactly which components you want to install on your system. Component options depend on how you acquired the software:

- CD-ROM or download with the package installer option

If you acquired the WebLogic Server installation program on a CD-ROM or by downloading the package installation program, you can select the following options during a custom installation:

- Server—This component contains the WebLogic Server program files which include the core Java™ 2, Enterprise Edition (J2EE) features.
- Workshop—This component consists of the WebLogic Workshop program files, including the visual development and run-time environments.

Note: The WebLogic Workshop visual development environment and associated JRE are not installed on Solaris or HP-UX systems.

- Server Examples—This component contains the WebLogic Server examples, Pet Store servers and sample applications, and WebLogic Workshop samples. These servers and sample applications demonstrate a variety of J2EE features using WebLogic Server. Resources are provided to help you build, configure, and run each of the sample applications. The Workshop samples demonstrate how to build enterprise-class Web services with WebLogic Workshop. You must install the server and Workshop to install and use the server and Workshop examples, respectively.

- Net installer

If you downloaded the net installer version of the WebLogic Server installation program (and you choose the custom installation option), you can select the Server, WebLogic Workshop, and Server Examples options, as well as options for additional WebLogic Platform components. Details about those additional options are beyond the scope of this document. For information about installing WebLogic Platform and all of its components, see the [WebLogic Platform Installation Guide](#) at

<http://e-docs.bea.com/platform/docs70/install/index.html>.

Note: By default, all WebLogic Platform components are selected. You must clear the check box for all components that you do not want to install.

In a custom installation, regardless of the distribution method, the BEA WebLogic Platform Configuration Wizard is optionally invoked after the selected components are installed on your system. You use the Configuration Wizard to configure WebLogic domains using preconfigured domain templates that facilitate domain creation for the target environment.

Selecting Directories for the WebLogic Server Installation

During installation of WebLogic Server, you need to specify locations for the following directories:

- [BEA Home Directory](#)
- [Product Installation Directory](#)

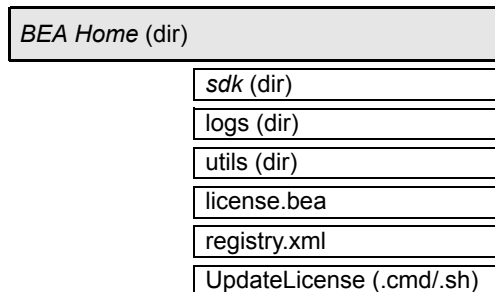
BEA Home Directory

When you install WebLogic Server, you are prompted to specify a BEA Home directory. The BEA Home directory is a repository for common files that are used by multiple BEA products installed on the same machine. For this reason, the BEA Home directory can be considered a “central support directory” for the BEA products installed on your system.

The files in the BEA Home directory are essential to ensuring that BEA software operates correctly on your system. They perform the following types of functions:

- Ensure that licensing works correctly for the installed BEA products
- Facilitate checking of cross-product dependencies during installation
- Facilitate Service Pack installation

The structure of a sample BEA Home directory created by the WebLogic Server installer program that includes a bundled SDK is shown in the following illustration.



This illustration depicts only the files and directories required in the BEA Home directory. If you choose the default product installation directory, you will see additional directories in the BEA Home directory, such as `weblogic700` (the WebLogic Server installation directory) and `user_projects` (a folder for WebLogic domains that you create). Although the default location for the WebLogic Server installation directory is within the BEA Home directory, you can select a different location outside the BEA Home directory. See [“Understanding the WebLogic Server Directory Structure” on page 7-4](#).

Note: For some UNIX platforms, the WebLogic Server installation program does *not* install the SDK. During installation of WebLogic Server, you are prompted to choose an existing BEA Home directory or specify a path to create a new BEA Home directory. If you choose to create a new directory, the WebLogic Server installation program automatically creates the directory for you.

Note: For a BEA Home directory, you are allowed to install only one instance of each version of a BEA product that uses the BEA Home directory convention. For example, you can install only one instance of WebLogic Server 7.0 in a BEA Home directory, but that BEA Home directory may also contain an instance of WebLogic Server 6.1.

Understanding the Functions of the BEA Home Directory

The files and directories in the BEA Home directory are described in [Table 1-3](#).

Table 1-3 BEA Home Directory Description

Component	Description
<code>sdk</code> directory	Contains the software for the Java 2 SDK installed with WebLogic Server. The SDK provides the Java run-time environment (JRE) and tools for compiling and debugging Java applications. Options include: <ul style="list-style-type: none">• <code>jdk131_XX</code>—the 1.3.1 version of the Sun Java 2 SDK• <code>jrockitXXX</code>—The WebLogic JRockit SDK. <p>Note: SDK options vary by hardware platform. For some UNIX platforms, the WebLogic Platform installation program does <i>not</i> include an SDK.</p>
<code>logs</code> directory	Contains a history file of installation and uninstallation for the BEA Home directory.
<code>utils</code> directory	Contains utilities that support the installation of all BEA WebLogic Platform products. The <code>utils.jar</code> file contains code that supports the <code>UpdateLicense</code> utility.

Table 1-3 BEA Home Directory Description

Component	Description
<code>license.bea</code> file	<p>An XML-format license file that contains the license keys for all BEA WebLogic Platform products installed on your system that use the BEA Home directory convention.</p> <p>The format of this license has changed in WebLogic Server 7.0. To convert a pre-7.0 <code>license.bea</code> file to a WebLogic Server 7.0 <code>license.bea</code> file, refer to the procedures in “Upgrading Licenses from Previous WebLogic Server Releases” on page 5-5. To add a non-expiring (permanent) license or to update a license file for additional functionality, you must update the <code>license.bea</code> file using the <code>UpdateLicense</code> utility. For details, see “Updating Your license.bea File” on page 5-2.</p> <p>Note: Do not edit this file manually. Doing so may cause operating problems for the currently installed BEA products, or result in installation problems when installing future BEA products or maintenance upgrades.</p>
<code>registry.xml</code> file	<p>A registry file that contains a persistent record of all BEA products installed on the target system. This registry contains product-related information, such as version number, Service Pack number, and installation directory.</p> <p>Note: Do not edit this file manually. Doing so may cause operating problems for the currently installed BEA products, or result in installation problems when installing future BEA products or maintenance upgrades.</p>
<code>UpdateLicense</code> (<code>.cmd/.sh</code>)	<p>A command file (Windows) or a shell script (UNIX) that updates the current <code>license.bea</code> file with new license sections. The result is a merged license that contains both the existing and new license sections. For details about using the <code>UpdateLicense</code> utility, see “Updating Your license.bea File” on page 5-2.</p>

Creating Multiple BEA Home Directories

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

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. During installation, you are prompted to choose a product installation directory. If you accept the default, the WebLogic Server software is installed in the following directory:

```
c:\bea\weblogic700
```

where `c:\bea` is the BEA Home directory and `weblogic700` is the product installation directory. However, you can specify any name and location on your system for your product installation directory; there is no requirement that you name the directory `weblogic700`, or create it under the BEA Home directory.

The installer uses the product installation directory as the `WL_HOME` directory and installs the software components under this directory. See [“Files and Directories Installed” on page 7-4](#) for more information.

Generating a Verbose Installation Log

If you start the installation process from the command line or from a script, you can specify the `-log` option to generate a verbose installation log. The installation log lists messages about events during the installation process, including informational, warning, error, and fatal messages. This can be especially useful for silent installations.

Note: You may see some warning messages during in the installation log. However, unless there is a fatal error, the installation program will complete the installation successfully. The installation user interface will indicate the success or failure of the installation. For a silent installation, which has no user interface, if there is a fatal error in the installation log, the installation did not complete successfully. If there is no fatal error in the installation log, the installation completed successfully.

Syntax

To create a verbose log file during installation, include the `-log=/full_path_to_log_file` option in the command line or script. For example:

```
serverXXX_win32.exe -log=D:\logs\wls_install.log
```

where `xxx` is the version of the software you are installing.

The path must be the full path to a file name. If the file does not exist, all folders in the path must exist before you execute the command or the installation program will not create the log file.

Where to Find Upgrade and Migration Information

Information about upgrading your WebLogic Server installation with the latest service pack is provided in [Chapter 6, “Installing WebLogic Server Service Packs and Rolling Patches.”](#)

The following documents provide additional WebLogic Server upgrade and migration information:

- [Upgrade Guide for BEA WebLogic Server 7.0](#) at <http://e-docs.bea.com/wls/docs70/upgrade/index.html>.
- [Upgrading the Pet Store Application and the Examples Server](#) at <http://e-docs.bea.com/wls/docs70/upgrade/ExamplesPetStore.html>.

Introducing Smart Update

The Smart Update feature enables you to quickly and easily upgrade your WebLogic Server software with service packs, software patches (sometimes referred to as rolling patches), and subsequent releases of the software.

Note: Smart Update upgrades your Windows installation to use the Sun Java 2 SDK and your Linux installation to use the WebLogic JRockit SDK. If you want to use a different SDK, you should use a WebLogic Platform upgrade installer that is bundled with the appropriate SDK or change the SDK, as described in “Switching JVMs in WebLogic Platform” in the *WebLogic Platform Release Notes*, at the following URL:

<http://e-docs.bea.com/platform/docs70/relnotes/relnotes.html#nonbundledJVM>

When you start Smart Update, either from the Windows Start menu or from the command line, it checks the version of products installed (associated with the current BEA Home directory), and then connects to the BEA Web site to check for available updates. If an update for an installed product is available, the Smart Update window opens with directions for installing available upgrades. If no upgrades are available, a message displays indicating that no maintenance is available.

Note: If you installed WebLogic Server 7.0 GA (version 7.0.0.0), you must upgrade to WebLogic Server 7.0.0.1 (the version available with WebLogic Platform 7.0) or a service pack before you can use Smart Update to install future service packs (WebLogic Server 7.0.1.0 and later). For details, see [“Important Note About Updating WebLogic Server 7.0 GA”](#) on page 6-3.

For details about using Smart Update, see [Chapter 6, “Installing WebLogic Server Service Packs and Rolling Patches.”](#)

Preparing to Install WebLogic Server

Installing WebLogic Server Using Graphical-Mode Installation

The following sections describe how to install WebLogic Server using the graphical user interface (GUI) mode installation on both Windows and UNIX systems:

- “Before You Start” on page 2-1
- “Starting the Installation Program in Graphical Mode on Windows Platforms” on page 2-2
- “Starting the Installation Program in Graphical Mode on a UNIX Platform” on page 2-3
- “Running the Installation Program” on page 2-6
- “Configuring Domains, Servers, and Clusters with the Configuration Wizard” on page 2-10
- “What’s Next?” on page 2-12

Before You Start

Before you start the WebLogic Server installation, please review the following information:

- Make sure you are installing the product on a supported platform. A complete list of supported platforms can be found at <http://e-docs.bea.com/platform/suppconfigs/index.html>.
- You should read all of [Chapter 1, “Preparing to Install WebLogic Server,”](#) specifically the following sections:
 - “Installation Prerequisites” on page 1-7
 - “Choosing the Type of Installation” on page 1-11

– “Selecting Directories for the WebLogic Server Installation” on page 1-13

- You cannot re-install WebLogic Server in the same location (BEA Home or physical location) as previously installed. You must first uninstall the WebLogic Server installation, as described in [Chapter 8, “Uninstalling WebLogic Server,”](#) or install in another location. You can, however, install additional WebLogic Platform components, such as the WebLogic Server examples, in the same location without uninstalling existing components.
- All WebLogic Platform components installed in a BEA product directory (for example, `c:\bea\weblogic700`) must be at the same version level. If you attempt to install additional components at a higher version than those that are already installed in that directory, the installation program prompts you to upgrade your existing components before you can proceed with the installation. For example, if you installed WebLogic Server 7.0 Service Pack 1, and later attempt to install WebLogic Portal 7.0 Service Pack 2, you are required to upgrade WebLogic Server to Service Pack 2 before you can install WebLogic Portal. For details on upgrading your installation, see [Chapter 6, “Installing WebLogic Server Service Packs and Rolling Patches.”](#)

Starting the Installation Program in Graphical Mode on Windows Platforms

To start the GUI-mode installation process on a Windows system, follow these steps:

1. Log in to the Windows system.
2. If you are installing WebLogic Server from a CD-ROM, go to step 3. If you are installing WebLogic Server by downloading from the BEA Web site:
 - a. Go to http://commerce.beasys.com/downloads/weblogic_server.jsp and download the WebLogic Server installation file for your platform. See “[Web Distribution of WebLogic Server](#)” on page 1-4 for information about download options.
 - b. Go to the directory where you downloaded the installation file and double-click the installation file:

`serverXXX_win32.exe` (package installer file—WebLogic Server, WebLogic Workshop, and related samples)

`net_platformXXX_win32.exe` (net installer file—WebLogic Platform)

where `xxx` is the version number of the software you are installing.

Note: The net installer installs all or part of the WebLogic Platform, which includes WebLogic Server with WebLogic Workshop. See “[Web Distribution of WebLogic Server](#)” on page 1-4 for more details.

The installation program begins to install WebLogic Server.

- c. Proceed to [“Running the Installation Program” on page 2-6](#).
3. If you are installing WebLogic Server from a CD-ROM:
 - a. Insert the WebLogic Server CD-ROM into the CD-ROM drive.
 - b. If the installation program does not start automatically, open the Windows Explorer and double-click the CD-ROM icon.
 - c. Navigate to the folder for the Windows installation and double-click `serverXXX_win32.exe`, where `XXX` is the version number of the software you are installing. The installation program begins to install WebLogic Server.
 - d. Proceed to [“Running the Installation Program” on page 2-6](#).

Starting the Installation Program in Graphical Mode on a UNIX Platform

The WebLogic Server installation program requires a Java run-time environment (JRE) to run. A Java 2 Software Development Kit (SDK), which includes a JRE, is bundled in the Windows installation program and in some UNIX installation programs (those with filenames ending in `.bin`). For other UNIX platforms, the WebLogic Server installation program does *not* include the Java 2 SDK in the installation program. Filenames for these installation programs end in `.jar`. To run the `.jar` installation programs, you must have the appropriate version of the Java 2 SDK installed on your system, and include the `bin` directory of the Java 2 SDK at the front of the `PATH` variable. It is important that you use an SDK because the installation process sets the `JAVA_HOME` and related variables to point to this directory.

Note: To run graphical-mode installation, your console must support a Java-based GUI. If the installation program determines that your system cannot support a Java-based GUI, the installation program automatically starts console-mode installation. For details, see [Chapter 3, “Installing WebLogic Server Using Console-Mode Installation.”](#)

Starting Graphical-Mode Installation for .bin Installation Files

If you have an installation program file that ends in `.bin`, follow these steps to start the installation program in graphical mode on a UNIX system:

1. Log in to the target UNIX system.
2. Open a command-line shell.

3. If you are installing WebLogic Server from a CD-ROM, go to step 4. If installing WebLogic Server by downloading from the BEA Web site:
 - a. Go to http://commerce.beasys.com/downloads/weblogic_server.jsp and download the WebLogic Server installation file for your platform. See “[Web Distribution of WebLogic Server](#)” on page 1-4 for information about download options.
 - b. In the command shell, go to the directory where you downloaded the installation program and start the installation by entering the following commands:

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

where *filename.bin* is the name of the WebLogic Server installation program specific to your platform.
 - c. Proceed to “[Running the Installation Program](#)” on page 2-6.
4. If installing WebLogic Server from the CD-ROM:
 - a. Insert the WebLogic Server CD-ROM into the CD-ROM drive.
 - b. Go to the CD-ROM directory, and navigate to the folder for the installation program for your hardware platform.
 - c. Start the installation by entering the following command:

```
./filename.bin
```

where *filename.bin* is the name of the WebLogic Server installation program specific to your platform.
 - d. Proceed to “[Running the Installation Program](#)” on page 2-6.

Starting Graphical-Mode Installation for .jar Installation Files

To start the graphical-mode installation process for installation files ending in `.jar`, follow these steps.

Note: If you are installing WebLogic Server on a hardware platform other than Windows, Solaris, HP-UX, or IBM AIX, there may be special installation instructions that apply to your hardware platform. Check your hardware platform listing on the [Supported Configurations](#) page before you run the installation program.

1. Log in to the target UNIX system.

2. Open a command-line shell.
3. Include the `bin` directory of the appropriate SDK at the beginning of the `PATH` variable on the target system. For example:

```
PATH=$JAVA_HOME/bin:$PATH
export PATH
```

Where `JAVA_HOME` is the full path to the SDK directory.

4. Do one of the following:
 - Download the software as described in [“Web Distribution of WebLogic Server”](#) on page 1-4.
 - If you are installing from CD-ROM, insert the WebLogic Server CD-ROM into the CD-ROM drive and go to the CD-ROM directory.
5. Go to the directory that contains the installation file and invoke the installation procedure as described in [Table 2-1](#).

Table 2-1 Commands to Start the WebLogic Server Installation Program

If you are . . .	Enter the following command . . .
Installing on a UNIX platform other than AIX	<code>java -jar filename.jar</code>
Installing on an AIX platform	<code>java -classpath filename.jar com.bea.installer.BEAInstallController</code>

For each command, `filename.jar` is the name of the WebLogic Server installation file, for example `pj_serverXXX_generic.jar`. Filenames for the net installer are preceded by `net_`, for example, `net_pj_platformXXX_generic.jar`.

Note: You can also include the `-log=/full_path_to_log_file` option on the command line to create a log file during installation. For example:

```
java -jar filename.jar -log=/nfs/home1/logs/wls_install.log
```

The installation program creates a verbose installation log. For more information, see [“Generating a Verbose Installation Log”](#) on page 1-16.

6. Proceed to [Running the Installation Program](#).

Running the Installation Program

The installation program prompts you to enter specific information about your system and configuration.

Table 2-2 Running the Installation Program

In this window . . .	Perform the following action . . .
Welcome	Click the Next button to proceed or cancel the installation at any time by clicking Exit.
BEA License Agreement	Read the BEA Software License Agreement and indicate your acceptance of the terms of the agreement by selecting Yes. To continue with the installation, you must accept the terms of the license agreement and then click Next.
Choose BEA Home Directory	Specify the BEA Home directory that will serve as the central support directory for all BEA products installed on the target system. If you already have a BEA Home directory on your system, you can select that directory (recommended) or create a new BEA Home directory. If you choose to create a new directory, the WebLogic Server installer program automatically creates the directory for you. For details about the BEA Home directory, see “BEA Home Directory” on page 1-13 .

Table 2-2 Running the Installation Program

In this window . . .	Perform the following action . . .
Choose Install Type	<p>Select the option button for the type of installation you want to perform:</p> <ul style="list-style-type: none"> • Typical—In a typical installation, all software components in the distribution 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. Software components vary depending on the distribution method of the software: CD-ROM or package installer: Installs WebLogic Server with WebLogic Workshop and all related examples. Net installer: Installs all components of WebLogic Platform, which includes WebLogic Server with WebLogic Workshop as well as WebLogic Portal, WebLogic Integration, and all related examples. <p>Note: When you choose the Typical installation option, the Configuration Wizard is not invoked automatically as part of the installation. However, you can launch it manually after the installation is complete from the Start menu or with a command line script. See “Configuring Domains, Servers, and Clusters with the Configuration Wizard” on page 2-10.</p> <ul style="list-style-type: none"> • Custom—In a custom installation, you can select the software components you want to install and optionally run the Configuration Wizard to create custom WebLogic domains. <p>Note: If you downloaded software using the net installer option and you want to install WebLogic Server without the additional WebLogic Platform components, select the Custom installation option and select only the components you want to install. If you want to install components other than server and server examples, see the WebLogic Platform Installation Guide at http://e-docs.bea.com/platform/docs70/install/index.html.</p> <p>For additional information about installation types, see “Choosing the Type of Installation” on page 1-11.</p> <p>If you are using the typical installation option, go to the Choose Product Directory window.</p>

Table 2-2 Running the Installation Program

In this window . . .	Perform the following action . . .
Choose Components	Select the components to install by selecting or clearing the appropriate check boxes.
Note: This window is displayed only if you select Custom installation in the Choose Install Type window.	<p>This window displays a tree-view of all the components available for installation. In an initial installation, all components are checked.</p> <p>The check boxes for components already installed on your system appear as a greyed-check box.</p> <p>If you want to install components other than server and server examples, see the WebLogic Platform Installation Guide at http://e-docs.bea.com/platform/docs70/install/index.html.</p> <p>Note: When you select or deselect components to install, the installation program checks for dependencies between components and automatically modifies the list of selected components.</p>
Specify Download Options	Indicate your preferences for downloading the software as follows:
Note: This window is displayed only if you are using the net installer.	<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. It does not need to be collocated with the installation setup file, or with the installed software.Remove downloaded files after installation—Select this check box if you want the installation program to delete the downloaded files after the installation is complete. If you do not select this check box, the downloaded files are saved to the storage directory you specified.Use HTTP Proxy—Select this check box 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 serverPort—enter the port number of the proxy server

Table 2-2 Running the Installation Program

In this window . . .	Perform the following action . . .
Download Status Note: This window is displayed only if you are using the net installer.	<ul style="list-style-type: none"> Automatically continue installation after completion—Select this check box if you want to proceed automatically with the installation after the download is complete. 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. Pause—Click this button if you need to interrupt the download for any reason. If you do so, the download is discontinued and the Pause button changes to a Resume button. Click Resume when you want to proceed with the download.
Archive Integrity Check Note: This window is displayed only if you are using the net installer.	<p>This window is displayed while the installation program verifies that the component archive files downloaded successfully.</p> <p>Click Next when the download verification is complete.</p>
Choose Product Directory Note: This window is not displayed if you are performing a Custom installation and you have selected the same BEA Home directory that contains previously installed WebLogic Server components. In that case, the selected components are installed in the Product Directory you specified during the initial installation.	<p>Specify the directory in which you want to install the WebLogic Server software and click Next. You can accept the default product directory (<code>weblogic700</code>) or create a new product directory.</p> <p>For additional information and a description of the resulting directory structure, see “Product Installation Directory” on page 1-16.</p> <p>If you choose to create a new directory, the installation program automatically creates the directory for you, if necessary.</p> <p>When you click Next, the installation program begins copying the components you specified to your system.</p>
Status	<p>Read the information displayed about BEA products and services and click Next when the installation program has finished copying the specified files to your system. If you are performing a Typical installation, the installation is complete.</p>

Table 2-2 Running the Installation Program

In this window . . .	Perform the following action . . .
Run Configuration Wizard	Indicate whether you want to run the Configuration Wizard to create an application domain by selecting the appropriate option.
Note: This window is displayed only if you select Custom installation in the Choose Install Type window.	<p>If you choose Yes, proceed to Configuring Domains, Servers, and Clusters with the Configuration Wizard for a summary description of the Configuration Wizard. For complete details, refer to Creating New Domains Using the Configuration Wizard in <i>Creating and Configuring WebLogic Server Domains</i> at http://e-docs.bea.com/wls/docs70/admin_domain/configwiz.html.</p> <p>If you choose No, you can run the Configuration Wizard from the Start menu (Windows only) or from the command line at a later time.</p>
Install Complete	Click Done to exit the installation program.

Configuring Domains, Servers, and Clusters with the Configuration Wizard

If you are performing a custom installation, at the end of the installation process you can run the Configuration Wizard to create and configure WebLogic domains. Or, in both Custom and Typical installations, you can start the Configuration Wizard from the Start menu or the command line. For complete details, refer to [Creating New Domains Using the Configuration Wizard](#) in *Creating and Configuring WebLogic Server Domains* at

http://e-docs.bea.com/wls/docs70/admin_domain/configwiz.html.

You use the Configuration Wizard to create and configure custom WebLogic domains. A domain is an interrelated set of WebLogic Server resources that are managed as a unit. A domain includes one or more WebLogic Servers, and may also include WebLogic Server clusters.

The Configuration Wizard uses pre-configured domain templates that you use to create a domain for the target environment. WebLogic Server 7.0 includes the following templates:

- **WLS Domain**—The basic, full-featured template for creating WebLogic domains for WebLogic Server.
- **WebLogic Workshop**—A template used to create WebLogic Workshop-enabled domains. For detailed instructions, see the [WebLogic Workshop](#) documentation at <http://e-docs.bea.com/workshop/docs70/help/index.html#guide/howdoi/howcreateNewWLW-enabledWLSDomain.html>.

- **WLS Examples**—A template used for updating the WebLogic Server examples domain when you install a service pack.
- **WLS Petstore**—A template used for recreating the WebLogic Server Pet Store domain when you install a service pack.

If you install additional WebLogic Platform components, you may see additional templates when you start the Configuration Wizard. For detailed procedures for using the Configuration Wizard with WebLogic Platform, see [Using the Configuration Wizard](#) at

<http://e-docs.bea.com/platform/docs70/configwiz/index.html>. For details about available Configuration Wizard templates, see the [Configuration Wizard Template Reference](#) at <http://e-docs.bea.com/platform/docs70/template/index.html>.

Configuration Options

Based on the pre-configured domain template that you choose when running the Configuration Wizard, you are prompted to supply certain types of information for each domain. The following list offers a sampling of the type of information you need to provide. Complete details are provided in [Creating New Domains Using the Configuration Wizard](#) in *Creating and Configuring WebLogic Server Domains* at http://e-docs.bea.com/wls/docs70/admin_domain/configwiz.html.

- Server Type, such as a Single standalone server, or an Administration Server with Managed Servers or clustered Managed Servers.
- A domain directory in which to create the domain. By default, this directory is created in `bea_home\user_projects`, where *bea_home* is the BEA Home directory containing the support information for this installation. If the directory does not exist, the Configuration Wizard creates the directory for you.

Note: On UNIX systems, do not use spaces in the domain name.

- Configuration information for the server, such as Server Name, Listen Address, Listen Port, and SSL Listen Port. Default values are provided for most values.

Note: On UNIX systems, do not use spaces in the server name.

- A system user name and password. WebLogic Server user names and passwords can contain any character from the JDK supported character sets, including international characters. Characters should also be valid XML data characters, which excludes the following characters: `<`, `>`, `[`, and `]`.
- An option to configure the server as a Windows service. If you choose to do so, the server starts automatically each time you boot your Windows system. You must have *Administrator*

privileges to the install the server as a Windows service. For complete details about installing and running WebLogic Server as a Windows service, see [Setting Up a WebLogic Server as a Windows Service](#) in the *Administration Guide* at

<http://e-docs.bea.com/wls/docs70/adminguide/startstop.html#SettingUpServerAsWindowsService>.

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

What's Next?

To learn more about WebLogic Server 7.0, view the following files:

- `about_wls.html`

Summarizes new features in this version of WebLogic Server and provides pointers to useful related information.

On a Windows system, access this file by using the About WebLogic Server shortcut on the Start Menu. On both Windows and UNIX systems, access the `about_wls.html` file at `WL_HOME\server\about_wls.html`, where `WL_HOME` represents the top-level installation directory for the WebLogic Server software.

- `readme.txt`

A text-only file that contains similar information as `ABOUT_WLS.HTML`. Access the `readme.txt` file at `WL_HOME\server\readme.txt`, where `WL_HOME` represents the top-level installation directory for the WebLogic Server software.

Installing WebLogic Server Using Console-Mode Installation

The following sections describe how to install WebLogic Server using console-mode installation:

- “Before You Start” on page 3-1
- “Starting Console-Mode Installation on Windows Systems” on page 3-2
- “Starting Console-Mode Installation on UNIX Systems” on page 3-3
- “Running Console-Mode Installation” on page 3-6
- “What’s Next?” on page 3-12

Before You Start

Before you start the WebLogic Server installation, please review the following information:

- Make sure you are installing the product on a certified platform. A complete list of certified platforms can be found at <http://e-docs.bea.com/platform/suppconfigs/index.html>.
- You should read all of [Chapter 1, “Preparing to Install WebLogic Server,”](#) specifically the following sections:
 - “Installation Prerequisites” on page 1-7
 - “Choosing the Type of Installation” on page 1-11
 - “Selecting Directories for the WebLogic Server Installation” on page 1-13

- You cannot re-install WebLogic Server in the same location (BEA Home or physical location) as it was previously installed. You must first uninstall the WebLogic Server installation, as described in [Chapter 8, “Uninstalling WebLogic Server,”](#) or install in another location. You can, however, install additional WebLogic Platform components, such as the WebLogic Server examples, in the same location without uninstalling existing components.
- All WebLogic Platform components installed in a BEA product directory (for example, `/bea/weblogic700`) must be at the same version level. If you attempt to install additional components at a higher version than those that are already installed in that directory, the installation program prompts you to upgrade your existing components before you can proceed with the installation. For example, if you installed WebLogic Server 7.0 Service Pack 1, and later attempt to install WebLogic Portal 7.0 Service Pack 2, you are required to upgrade WebLogic Server to Service Pack 2 before you can install WebLogic Portal. For details on upgrading your installation, see [Chapter 6, “Installing WebLogic Server Service Packs and Rolling Patches.”](#)

Starting Console-Mode Installation on Windows Systems

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

1. Log in to the Windows system.
2. Open an MS-DOS command prompt window.
3. If you are installing WebLogic Server from CD-ROM, go to step 4. If installing WebLogic Server by downloading from the BEA Web site:
 - a. Go to http://commerce.beasys.com/downloads/weblogic_server.jsp and download the WebLogic Server installation file for your platform. See [“Web Distribution of WebLogic Server” on page 1-4](#) for information about download options.
 - b. Go to the directory where you downloaded the installation program and invoke the installation procedure by entering one of the following commands:

```
serverXXX_win32.exe -mode=console (package installer file—WebLogic Server,  
WebLogic Workshop, and related samples)
```

```
net_platformXXX_win32.exe -mode=console (net installer file—WebLogic  
Platform)
```

where `xxx` is the version number of the software you are installing.

Note: By default, the net installer installs all or part of the WebLogic Platform, which includes WebLogic Server with WebLogic Workshop. See [“Web Distribution of WebLogic Server” on page 1-4](#) for more details.

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

```
serverXXX_win32 -mode=console -log=d:\logs\weblogic_install.log
```

The path must be to a file. All folders in the path must exist before you execute the command or the installation program will not create the log file. For more information, see [“Generating a Verbose Installation Log” on page 1-16](#).

The installation program begins to install WebLogic Server.

- c. Proceed to [“Running Console-Mode Installation” on page 3-6](#).
4. If installing WebLogic Server from CD-ROM:
 - a. Insert the WebLogic Server CD-ROM into the CD-ROM drive.
 - b. Open an MS-DOS command prompt window.
 - c. Go to the CD-ROM directory.
 - d. Invoke the installation procedure by entering the following command:

```
serverXXX_win32 -mode=console
```

where `xxx` is the version number of the software you are installing.

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

```
serverXXX_win32 -mode=console -log=d:\logs\weblogic_install.log
```

The path must be to a file. All folders in the path must exist before you execute the command or the installation program will not create the log file.

- e. Proceed to [“Running Console-Mode Installation” on page 3-6](#).

Starting Console-Mode Installation on UNIX Systems

The WebLogic Server installation program requires a Java run-time environment (JRE) to run. A Java 2 Software Development Kit (SDK), which includes a JRE, is bundled in the Windows installation program and in some UNIX installation programs (those with filenames ending in `.bin`). For other UNIX platforms, the WebLogic Server installation program does not include the Java 2 SDK in the installation program. Filenames for these installation programs end in `.jar`. To run the `.jar` installation programs, you must have the appropriate version of the Java 2 SDK installed on your system, and include the `bin` directory of the Java 2 SDK at the front of the `PATH` variable. It is

important that you use an SDK because the installation process sets the `JAVA_HOME` and related variables to point to this directory.

Starting Console-Mode Installation for .bin Installation Files

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

1. Log in to the target UNIX system.
2. Open a command-line shell.
3. If you are installing WebLogic Server from CD-ROM, go to step 4. If installing WebLogic Server by downloading from the BEA Web site:

- a. Go to http://commerce.beasys.com/downloads/weblogic_server.jsp and download the WebLogic Server installation file for your platform. See “[Web Distribution of WebLogic Server](#)” on page 1-4 for information about download options.
- b. Go to the directory where you downloaded the installation program and invoke the installation procedure by entering the following commands:

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

where `filename.bin` is the name of the WebLogic Server installation file.

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

```
./serverXXX_solaris.bin -mode=console
-log=/nfs/home1/logs/wls_install.log
```

The path must be to a file. All folders in the path must exist before you execute the command or the installation program will not create the log file.

- c. Proceed to “[Running Console-Mode Installation](#)” on page 3-6.
4. If installing WebLogic Server from the CD-ROM:
 - a. Insert the WebLogic Server CD-ROM into the CD-ROM drive.
 - b. Go to the CD-ROM directory, and navigate to the folder for the installation program for your hardware platform.
 - c. Invoke the installation procedure by entering the following command:

```
./filename.bin -mode=console
```


where *filename.bin* is the name of the WebLogic Server installation program specific to your platform.

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

```
./serverXXX_solaris.bin -mode=console
-log=/nfs/home1/logs/wls_install.log
```

The path must be to a file. All folders in the path must exist before you execute the command or the installation program will not create the log file.

- d. Proceed to [“Running Console-Mode Installation” on page 3-6](#).

Starting Console-Mode Installation for .jar Installation Files

To start the console-mode installation process for installation files ending in `.jar`, follow these steps.

Note: If you are installing WebLogic Server on a hardware platform other than Windows, Solaris, HP-UX, or IBM AIX, there may be special installation instructions that apply to your hardware platform. Check your hardware platform listing on the [Supported Configurations](#) page before you run the installation program.

1. Log in to the target UNIX system.
2. Open a command-line shell.
3. Include the `bin` directory of an appropriate Java 2 SDK at the beginning of the `PATH` variable on the target system. For example:

```
PATH=$JAVA_HOME/bin:$PATH
export PATH
```

Where *JAVA_HOME* is the full path to the Java 2 SDK directory.

4. Do one of the following:
 - Download the software as described in [“Web Distribution of WebLogic Server” on page 1-4](#).
 - If you are installing from CD-ROM, insert the WebLogic Server CD-ROM into the CD-ROM drive and go to the CD-ROM directory.
5. Go to the directory that contains the installation file and invoke the installation procedure as described in [Table 3-1](#).

Table 3-1 Commands for Starting the WebLogic Server Installation Program

If you are . . .	Enter the following command . . .
Installing on a UNIX platform other than IBM AIX, S/390, or Z-Series	<code>java -jar filename.jar -mode=console</code>
Installing on an AIX, S/390, or Z-Series platform	<code>java -classpath filename.jar com.bea.installer.BEAInstallController -mode=console</code>

For each command, *filename.jar* is the name of the WebLogic Server installation file, for example `pj_serverXXX_generic.jar`. Filenames for the net installer are preceded by `net_`, for example, `net_pj_platform700_generic.jar`.

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

```
java -jar filename.jar -mode=console  
-log=/nfs/home1/logs/wls_install.log
```

The path must be to a file. All folders in the path must exist before you execute the command or the installation program will not create the log file.

6. Proceed to [“Running Console-Mode Installation.”](#)

Running Console-Mode Installation

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` in response to any prompt. To review or change your selection, enter `previous` at the prompt.

Note: The sample console text and directory pathnames in this section use UNIX conventions (forward slashes) in pathnames, for example, `/home1/bea/weblogic700`. When entering pathnames on a Windows system, use the Windows convention (backslashes) for pathnames, for example `C:\bea\weblogic700`.

The following procedure steps you through the installation program. Use this procedure after you have started the installation program in console mode as described in the previous sections.

1. At the Welcome prompt, type `next` or press Enter to continue with the installation process.

The License Agreement prompt is displayed.

2. Read the BEA Software License Agreement and indicate your acceptance or rejection of the terms of the agreement by typing `yes` or `no`, respectively, at the prompt. To review the entire agreement, press `Enter` or type `more` several times. If you type `no`, the installation process terminates. To proceed with the installation, type `yes` to indicate your agreement with the terms of the license.

The Choose BEA Home directory prompt is displayed.

3. Specify the BEA Home directory that will serve as the central support directory for all BEA products installed on the target system. For details about the BEA Home directory, see [“BEA Home Directory” on page 1-13](#).

The installation program displays the following prompt:

```
Choose BEA Home Directory:
```

```
Select Option:
```

- ```
 1 - Create a new BEA Home
 2 - Use an existing BEA Home [/home/bea]
```

```
Enter index number to select OR [Exit][Previous][Next]>
```

Do one of the following:

- To use an existing BEA Home directory, type `2` or `next`, or press `Enter`. If you have more than one BEA Home directory on your system, an additional prompt will display the directories. Type the number associated with the desired BEA Home directory.
- To create a new BEA Home directory, type `1`, then at the prompt, enter the *full path* to the BEA Home directory, for example `/home/beahome2`. If you specify a directory that does not exist, the installation program creates it for you.

Whether you accept the existing BEA Home directory or choose to create a new BEA Home directory, you are prompted to confirm your selection, as shown in the following sample:

```
<----- BEA Installer - WebLogic Platform 7.0.0.1 ----->
```

```
Choose BEA Home Directory:
```

- ```
->1| Yes, Use this BEA home directory [/home/bea]
    2| No, return to BEA home directory selection
```

```
Enter index number to select OR [Exit][Previous][Next]>
```

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

After you have selected your BEA Home directory and confirmed your selection, 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, as shown in the following text:

Choose Install Type:

```
->1| Typical Installation (Install all software
components, including program files and examples.)
```

```
2| Custom Installation (Choose software components to
install and optionally create custom application domains.
Recommended for advanced users.)
```

```
=> Enter index number to select OR [Exit][Previous][Next]>
```

Do one of the following:

- Type 1 or press Enter to choose a Typical installation.

In a typical installation, all software components provided with WebLogic Server, including sample files, 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.

Note: When you choose the typical installation option, the Configuration Wizard is not invoked automatically as part of the installation. However, you can launch it manually after the installation is complete from the Start menu or with a command line script. See [“Configuring Domains, Servers, and Clusters with the Configuration Wizard” on page 2-10.](#)

Software components vary depending on the distribution method of the software:

CD-ROM or package installer: Installs WebLogic Server with WebLogic Workshop and all related examples.

Net installer: Installs all components of WebLogic Platform, which includes WebLogic Server with WebLogic Workshop as well as WebLogic Portal, WebLogic Integration, and all related examples.

Note: If you downloaded software using the net installer option and you want to install WebLogic Server without the additional WebLogic Platform components, select the *Custom* installation option and select only the components you want to install.

If you are installing from CD-ROM or using the package installer, the Choose Product Directory prompt is displayed. Go to step 7.

If you are using the net installer, the Specify Download Options prompt is displayed. Go to step 6.

- Type 2 to choose a Custom installation. In a custom installation, you can select the software components you want to install and optionally run the Configuration Wizard to create custom WebLogic domains.

The Choose Components prompt is displayed.

For more information about typical and custom installations, see [“Choosing the Type of Installation” on page 1-11](#).

5. Select the components you want to install. The available components are displayed as follows:

Choose Components:

```
Release 7.0
|-----WebLogic Server  [0] x
|       |-----Server   [0.0] x
|       |-----Workshop  [0.1] x
|       |-----Server Examples  [0.2] x
```

=> Enter number exactly as it appears in brackets to toggle selection OR
[Exit] [Previous] [Next] > next

By default, all components are selected as indicated by the x (UNIX systems), or check mark (Windows systems), at the end of each line. To deselect a component, type the numeric code for the component on the command line exactly as it appears within the brackets. For example, if you do not want to install the Server Examples for WebLogic Server, type 0.2 on the command line.

The word `Installed` is shown in brackets for any components you have already installed on your system.

Note: If you downloaded the software using the net installer option, you will see options for additional WebLogic Platform components. To install WebLogic Server with WebLogic Workshop only, deselect the additional WebLogic components. If you want to install other components of the WebLogic Platform, refer to the [WebLogic Platform Installation Guide](http://e-docs.bea.com/platform/docs70/install/index.html) at <http://e-docs.bea.com/platform/docs70/install/index.html>.

When you are finished selecting components, press Enter or type `next`. You are prompted to confirm your selection. On the command line, type 1 or press Enter to accept your selection. Otherwise, type 2 to return to the Choose Components panel where you can modify your selections.

Note: When you select or deselect components to install, the installation program checks for dependencies between components and automatically modifies the list of selected components.

If you are installing from CD-ROM or using the package installer, the Choose Product Directory prompt is displayed. Go to step 7.

If you are using the net installer (installation program filenames beginning with `net_`), the Specify Download Options prompt is displayed.

6. Indicate your preferences for downloading the software. The installation program presents the following options:

SPECIFY DOWNLOAD OPTIONS

- 1- Modify Storage directory (none)
- 2- Modify Remove download files after installation (No)
- 3- Modify Proxy Host (none)
- 4- Modify Proxy Port (none)

Enter a number or [Exit] [Previous] [Next]>

If you have previously installed WebLogic Server and specified a storage directory during the installation process, the full pathname for that directory is displayed as the default. To accept the defaults presented, type `next` or press Enter. If you have not specified a download storage directory in a previous installation and you want to save the download files, you need to specify a directory before you can proceed with the installation. To specify a storage directory or modify any of the other options, do the following:

- Type 1 to specify a storage directory to which you want to download the software components. When prompted, type the full pathname for the desired directory. This option is required if you are using the net installer.
- Type 2 if you want the downloaded files deleted after the installation is complete. If you do so, the download options are displayed again, and the `Remove download files after installation` option is set to `Yes`. If you accept the default for this option (`No`), the downloaded files are saved to the storage directory you specified.
- Indicate if you want to use an HTTP proxy server for the download by providing values for the `Modify Host` and `Modify Port` options as follows:

Type 3 to specify a host. At the prompt, enter the name or IP address of the proxy server.

Type 4 to specify a port. At the prompt, enter the port number of the proxy server.

For additional information about downloading the software, see [“Web Distribution of WebLogic Server” on page 1-4](#).

After you have indicated your preferences, the files begin downloading to the storage directory you specified. When the download is complete, the installation program verifies that the component archive files downloaded successfully. If the installation program cannot verify the integrity of the download, the following message is displayed:

```
The required installation files could not be verified. You
may download them from BEA or select different components.
```

When the verification is complete, the Choose Product Directory prompt is displayed.

7. Specify the directory in which you want to install the WebLogic Server software. Select the default product directory (*bea_home/weblogic700*) or create a new product directory. If you specify a new directory, the installation program automatically creates the directory for you.

The choices displayed in this section are as follows:

Choose Product Directory:

```
Product Directory= [/home/bea/weblogic700]
```

Select Option:

- 1 - Input new Product Directory
- 2 - Reset to default

Enter index number OR [Exit][Previous][Next]>

Do one of the following:

- Press Enter, type 2 or next, to accept the current selection. If you type 2 at the initial prompt, you accept the default product directory (*/home/bea/weblogic700* in this example).
- Type 1 to enter a new product installation directory. The following text is displayed:

Choose Product Directory:

```
Product Directory = [/home1/bea/weblogic700]
```

Input new Product Directory OR [Exit][Previous][Next]>

Enter the *full path* to the directory in which you want to install WebLogic Platform software. For example:

```
/home3/weblogic700
```

When you press Enter, the pathname you entered is displayed as the product directory. Press Enter or type next. The following text is displayed:

Choose Product Directory:

- >1| Yes, use this product directory [/home3/weblogic700]
- 2| No, select another product directory

Enter index numbers to select OR [Exit][Previous][Next]>

Verify that your entry is correct, then type 1 or press Enter to proceed with the installation. Otherwise, type 2 to return to the Choose Product Directory panel where you can modify your entry.

At this point, the installation program installs the files to the directory you specified.

Note: It is normal for the installation program to stop for a fairly long time, especially at the end. The installation program is still working when this occurs.

If you are performing a typical installation, the installation is complete. Press Enter to exit the installation program. If you are performing a custom installation, the Run Configuration Wizard prompt is displayed.

8. Indicate whether you want to run the Configuration Wizard to create a WebLogic domain by selecting the appropriate option. The console displays the following options:

Run Configuration Wizard

```
->1 - Yes, run Configuration Wizard to create my application domain
    2 - No, skip Configuration Wizard
```

Enter index number to select OR [Exit][Previous][Next]>

Press Enter or type 1 to launch the Configuration Wizard. Type 2 or next to skip the Configuration Wizard. You can launch it again after completing the installation.

You can use the Configuration Wizard to create and configure custom WebLogic domains. A WebLogic domain is an interrelated set of WebLogic Server resources that are managed as a unit. A domain includes one or more WebLogic Servers, and may also include WebLogic Server clusters.

For more information about the Configuration Wizard, see [“Configuring Domains, Servers, and Clusters with the Configuration Wizard” on page 2-10](#).

After you have created your domains or typed 2 to skip the Configuration Wizard, the installation is complete.

9. Press Enter to exit the installation program.

What's Next?

To learn more about WebLogic Server 7.0, view the following files:

- `about_wls.html`

Summarizes new features in this version of WebLogic Server and provides pointers to useful related information.

You can access the `about_wls.html` file at `WL_HOME/server/about_wls.html`, where `WL_HOME` represents the top-level installation directory for the WebLogic Server software.

- `readme.txt`

A text-only file that contains similar information as `ABOUT_WLS.HTML`. Access the `README.TXT` file at `WL_HOME/server/readme.txt`, where `WL_HOME` represents the top-level installation directory for the WebLogic Server software.

Installing WebLogic Server Using Console-Mode Installation

Installing WebLogic Server Using Silent-Mode Installation

The following sections describe how to install WebLogic Server using the installation program in silent mode on both Windows and UNIX systems:

- [“What Is Silent-Mode Installation?” on page 4-1](#)
- [“Before You Start” on page 4-2](#)
- [“Using Silent-Mode Installation: Main Steps” on page 4-2](#)
- [“Creating a Silent-Mode Installation Template File” on page 4-4](#)
- [“Sample Silent-Mode Installation Template Files” on page 4-8](#)
- [“Starting the Silent-Mode Installation Process on a Windows System” on page 4-18](#)
- [“Starting the Silent-Mode Installation Process on a UNIX System” on page 4-19](#)

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 prior to 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.

Note: Using silent-mode installation implies your consent to the BEA License Agreement. You neither see a copy of the BEA Software License Agreement nor have any means to accept the terms of the agreement.

The instructions in this section assume that you have already acquired the installation program, either on CD or from the Web. For more information, see [“WebLogic Server Distribution Methods” on page 1-3](#).

Note: You must use a package installer for silent-mode installation. Silent-mode installation is not supported with the net installer. Filenames for the net installer version of the installation program are preceded by `net_`, for example `net_platformXXX_solaris.bin`. Do not attempt to use installation programs with filenames beginning with `net_` for silent-mode installation.

Before You Start

Before you start the WebLogic Server installation, make sure you are installing the product on a supported platform. A complete list of supported platforms can be found at <http://e-docs.bea.com/platform/suppconfigs/index.html>. You should also read all of [Chapter 1, “Preparing to Install WebLogic Server.”](#)

Notes: Silent-mode installation supports typical installation only: you must install all software components included in the WebLogic Server installation program. For information about the components installed in a typical installation, see [“Choosing the Type of Installation” on page 1-11](#).

You cannot re-install WebLogic Server in the same location as a previously installed version. You must first uninstall the WebLogic Server installation, as described in [Chapter 8, “Uninstalling WebLogic Server,”](#) or install in another location.

Using Silent-Mode Installation: Main Steps

The silent-mode installation process has two primary steps:

1. Create a template file that contains the configuration settings, such as BEA Home directory, product directory, and options for the Configuration Wizard.

For the detailed procedure, see [“Creating a Silent-Mode Installation Template File” on page 4-4](#). For a sample template file, see [“Sample Silent-Mode Installation Template Files” on page 4-8](#).

2. Start the silent-mode installation process and use the values specified in the template file.

For the detailed procedure, see [“Starting the Silent-Mode Installation Process on a Windows System” on page 4-18](#) and [“Starting the Silent-Mode Installation Process on a UNIX System” on page 4-19](#).

A silent-mode installation takes the same amount of time as a standard installation. During silent-mode installation, an initial installation program window appears briefly, indicating that the

installation has started. No other messages are displayed indicating the installation is in progress or has completed successfully, even if errors are encountered.

Notes: During silent-mode installation, the installation program does not validate entries in the `silent.xml` file. If there are errors in the `silent.xml` file, the installation will fail.

You must use a package installer for silent-mode installation. Silent-mode installation is not supported with the net installer. Filenames for the net installer version of the installation program are preceded by `net_`, for example `net_platformXXX_solaris.bin`. Do not attempt to use installation programs with filenames beginning with `net_` for silent-mode installation.

Silent-mode installation requires the same temporary space and uses the same temporary storage directories as a standard installation. See [“Temporary Storage Space Requirements” on page 1-9](#) for more information. The installation program does not prompt you if there is not enough space in the temporary directory.

Important Notes About Silent-Mode Installation

You need to be aware of the following items when you install WebLogic Server in silent mode:

- You must use the package installer for silent-mode installation. Silent-mode installation is not supported with the net installer. Filenames for the net installer version of the installation program are preceded by `net_`, for example `net_platformXXX_solaris.bin`, where `XXX` is the version number of the software you are installing. Do not attempt to use installation programs with filenames beginning with `net_` for silent-mode installation.
- Silent-mode installation supports typical installation only: you must install *all* the components of WebLogic Server. For information about the components installed in a typical installation, see [“Choosing the Type of Installation” on page 1-11](#).
- Silent-mode installation requires the same temporary disk space and uses the same temporary storage directories as a standard installation. For more information, see [“Temporary Storage Space Requirements” on page 1-9](#). The installation program does not prompt 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 appears briefly, indicating that the installation has started. No message is displayed indicating 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, we recommend 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` template file. There cannot be any spaces or line breaks before the XML definition.

Creating a Silent-Mode Installation Template File

When you install WebLogic Server in silent mode, the installation program uses an XML file (`silent.xml`) to determine the installation options. Before you run the installation program in silent mode, you must create the `silent.xml` file with your installation options.

Note: During silent-mode installation, the installation program does not validate entries in the `silent.xml` file. If there are errors in the `silent.xml` file, the installation will fail.

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

1. From a supported browser, download a sample template file for silent-mode installation. Several sample templates are available for various configurations:
 - [Comprehensive Template File Sample](#)
 - [Sample Template for Configuring a Domain with Separate Admin and Managed Servers](#)
 - [Sample Template for Configuring a Cluster of Managed Servers](#)
 - [Sample Template for Adding a Managed Server to an Existing Domain](#)

All four templates are available later in this chapter at the following location:

<http://e-docs.bea.com/wls/docs70/install/instsil.html#template>

You can download these templates from a browser using the instructions that are provided with the description of each template. (If you are viewing these templates in PDF format, you can copy them directly from the Adobe Reader.)

2. Save the contents of the template file in a text file named `silent.xml` in the directory containing the WebLogic Server installer.

Note: The XML definition (`<?xml version="1.0" encoding="UTF-8"?>`) must be at the very beginning of the template file. There cannot be any spaces or line breaks before the XML definition.

3. In the `silent.xml` file, modify the values for the keywords shown in [Table 4-1](#) to create your desired configuration.

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 4-1 Silent-mode Installation Template Values

For this data-value name. . .	Enter the following value . . .
BEAHOME	<p>The full pathname for the BEA Home directory of your choice. For details about the BEA Home directory, see “BEA Home Directory” on page 1-13.</p> <p>Note: For silent install only, the BEA Home directory cannot exist before installing the software.</p>
USER_INSTALL_DIR	<p>The full pathname for the directory where you want to install the WebLogic Platform software. For details, see “Product Installation Directory” on page 1-16.</p>
RUN_DOMAIN_WIZARD	<p>true to run the Configuration Wizard and create a domain as part of the installation, false to skip it. If you choose to run the Configuration Wizard, you must specify values for the appropriate data-values as listed in the following rows in this table. For more information about the Configuration Wizard, see “Creating New Domains Using the Configuration Wizard” in <i>Creating and Configuring WebLogic Server Domains</i> at http://e-docs.bea.com/wls/docs70/admin_domain/configwiz.html.</p>
<i>The remaining values apply to options for the Configuration Wizard.</i>	
domain.directory	<p>The full path to the domain directory. The domain directory should be named the same name as the domain.</p> <p>Note: On UNIX systems, do not include spaces in the path to the domain directory.</p>
C_domainName	<p>Name of the domain to create. The name must match the directory name specified for domain.directory.</p> <p>Note: On UNIX systems, do not include spaces in the domain name.</p>
C_serverName	<p>Name of the server to configure, used as the server name for stand-alone servers and as the Administration Server for domains with Managed Servers and clustered servers.</p> <p>Note: Do not include spaces in the server name.</p>
C_username	<p>An administrative user name to start the server and access the Administration Console. Do not use spaces or XML reserved characters.</p>

Table 4-1 Silent-mode Installation Template Values

For this data-value name...	Enter the following value...
C_password	A password for the administrative user. It must contain at least eight characters but no more than 20 characters. Do not use spaces or XML reserved characters.
C_serverListenAddress	The system IP address or DNS name for the server. You can leave this blank if you want to use <code>localhost</code> and the server IP address to access the server and the Administration Console.
C_serverListenPort	A dedicated TCP/IP port number for the Administration Server. This number specifies the port at which the server listens for connections. Typically, 7001. The port number can be any integer from 1 to 65535.
C_serverSSLListenPort	A dedicated secure listen port number for the Administration Server. The secure listen port number is used for secure Web connections based on the secure sockets layer (SSL) protocol. Typically, 7002. The port number can be any integer from 1 to 65535 and cannot be the same port as the C_serverListenPort.
ClusterName	Name of the cluster to create. Only applicable if you are creating a cluster. Note: Do not include spaces in the cluster name.
ClusterPort	The MultiCast port that the Administration Server uses to communicate with clustered servers. Typically, 7777. Only applicable if you are creating a cluster.
ClusterMCAddr	The cluster MultiCast IP address that the Administration Server uses to communicate with clustered servers. Typically, 237.0.0.1. Valid MultiCast addresses begin with 237, 238, or 239. Only applicable if you are creating a cluster.
ADMIN_HOST_NAME_OR_IP	The Administration Server name or IP address. Used when configuring a Managed Server.
ADMIN_LISTEN_PORT	The port at which the Administration Server listens. Used when configuring a Managed Server.
MANAGED_SERVER_REGISTERED_NAME_IN_ADMIN	The machine or server name as registered with the Administration Server. Used when configuring a Managed Server.

Table 4-1 Silent-mode Installation Template Values

For this data-value name. . .	Enter the following value . . .
SERVER-RUN-AS	Determines the server configuration that the Configuration Wizard creates: Single Server (Standalone Server), Admin Server with Managed Server(s), Admin Server with Clustered Managed Server(s), or Managed Server (with owning Admin Server configuration).
selectedJar	The full path to the template JAR file that the Configuration Wizard uses to create the domain and configure servers.
INSTALL_NT_SERVICE (Windows systems only)	<p>yes to install the configured server as a Windows service; no to skip installing the configured server as a Windows service.</p> <p>Note: This data-value pair is only used if the selected template supports installing the server as a Windows service. If not, the value is ignored.</p> <p>This value is ignored on UNIX systems.</p>
INSTALL_WINDOWS_STARTUP _MENU	<p>yes to add an option to the Windows Start menu to start the server; no (the default value) to skip the Start menu option.</p> <p>Note: This data-value pair is only used if the selected template supports installing Start menu options. If not, the value is ignored.</p> <p>This value is ignored on UNIX systems.</p>
DB_EMAIL_HOST	<p>The default e-mail or SMTP server.</p> <p>Note: This data-value pair is used only if the selected template supports WebLogic Integration functionality. If it does not, the value is ignored.</p>
DB_EMAIL_ADDRESS	<p>The address from which e-mail can be sent by a workflow instance in WebLogic Integration.</p> <p>Note: This data-value pair is used only if the selected template supports WebLogic Integration functionality. If it does not, the value is ignored.</p>

Table 4-1 Silent-mode Installation Template Values

For this data-value name. . .	Enter the following value . . .
<code>managedServers</code> data group	<p>Determines the configuration of the group of Managed Servers in the domain. This data group applies only when you select "Admin Server with Managed Server(s)" as the value for <code>SERVER-RUN-AS</code>.</p> <p>For each Managed Server in your configuration, specify the following:</p> <ul style="list-style-type: none">• <code>managedServerRegName</code>—name of the server as registered with the Administration Server. Alphanumeric characters only; no spaces.• <code>managedServerHostIP</code>—IP address or DNS name of the machine on which the server is installed.• <code>managedServerListenPort</code>—server listen port.• <code>managedServerSSLListenPort</code>—secure listen port for the server.
<code>clusterServers</code> data group	<p>Determines the configuration of the group of clustered Managed Servers in the domain. This data group applies only when you select "Admin Server with Clustered Managed Server(s)" as the value for <code>SERVER-RUN-AS</code>.</p> <p>For each server in the cluster, specify the following:</p> <ul style="list-style-type: none">• <code>clusterServerRegName</code>—name of the server as registered with the Administration Server. Alphanumeric characters only; no spaces.• <code>clusterServerHostIP</code>—IP address or DNS name of the machine on which the server is installed.• <code>clusterServerListenPort</code>—server listen port.• <code>clusterServerSSLListenPort</code>—secure listen port for the server.

See [Creating New Domains Using the Configuration Wizard](#) in *Creating and Configuring WebLogic Server Domains* at

http://e-docs.bea.com/wls/docs70/admin_domain/configwiz.html for more information about how the Configuration Wizard works and the options you can select.

Sample Silent-Mode Installation Template Files

This section provides samples of template files you can use for various types of domain configuration during a silent installation:

- [Comprehensive Template File Sample](#)
- [Sample Template for Configuring a Domain with Separate Admin and Managed Servers](#)
- [Sample Template for Configuring a Cluster of Managed Servers](#)
- [Sample Template for Adding a Managed Server to an Existing Domain](#)

You can download or copy the files in this section and modify them for your own needs, or study the differences (highlighted in bold) among the latter three templates, as a way of learning which parameter settings control which aspects of a configuration.

Comprehensive Template File Sample

The sample template file in [Listing 4-1](#) shows the structure of a silent installation template file and lists all of the available options. You can modify this template according to [Table 4-1](#), and then use the file as a template file when installing WebLogic Server in silent mode.

To download this template from a browser, complete the following steps:

1. Click the following link:
<http://e-docs.bea.com/wls/docs70/install/scripts/silent-comp.xml>
2. In the popup window that is displayed, choose **File—Save As...**
3. Specify the file name `silent.xml` and save it in the directory containing the WebLogic Server installation program.

Listing 4-1 Comprehensive Template File Sample

```
<?xml version="1.0" encoding="UTF-8"?>

<domain-template-descriptor>

<input-fields>
  <data-value name="BEAHOME"                value="C:\bea" />
  <data-value name="USER_INSTALL_DIR"        value="C:\bea\weblogic700" />
  <data-value name="RUN_DOMAIN_WIZARD"        value="false" />

<!--The following values are used by the Configuration Wizard to create and
configure a domain.-->

  <data-value name="domain.directory" value="C:\bea\user_domains\mydomain" />
  <data-value name="C_domainName"      value="mydomain" />
```

Installing WebLogic Server Using Silent-Mode Installation

```
<data-value name="C_serverName"           value="myserver" />
<data-value name="C_username"             value="system" />
<data-value name="C_password"             value="weblogic" />
<data-value name="C_serverListenAddress"  value="" />
<data-value name="C_serverListenPort"     value="7001" />
<data-value name="C_serverSSLListenPort"  value="7002" />
<data-value name="ClusterName"            value="mycluster" />
<data-value name="ClusterPort"            value="7777" />

<!--The following value, ClusterMCAddr, must be a class D IP address-->
<data-value name="ClusterMCAddr"          value="237.0.0.1" />
<data-value name="ADMIN_HOST_NAME_OR_IP"  value="adminserver" />
<data-value name="ADMIN_LISTEN_PORT"      value="7001" />
<data-value name="MANAGED_SERVER_REGISTERED_NAME_IN_ADMIN" value="ms1" />

<!--The SERVER-RUN-AS value determines the server configuration that the
Configuration Wizard creates. There are four options as indicated by the
following lines. Comment out the three options you do not want to use.-->

    <data-value name="SERVER-RUN-AS" value="Single Server (Standalone
Server)" />
<!--    <data-value name="SERVER-RUN-AS" value="Admin Server with Managed
Server(s)" /> -->
<!--    <data-value name="SERVER-RUN-AS" value="Admin Server with Clustered
Managed Server(s)" /> -->
<!--    <data-value name="SERVER-RUN-AS" value="Managed Server (with owning Admin
Server configuration)" /> -->

<!--The selectedJar value determines the template that the Configuration Wizard
uses to create a domain and configure servers.-->

    <data-value name="selectedJar"
value="C:\bea\weblogic700\common\templates\domains\wls.jar" />

<!--The following four data-values depend on options selected in the
Configuration Wizard template specified above. If the related options are not
selected in the template, the values for the following four data-values are
ignored.-->

    <data-value name="INSTALL_NT_SERVICE"           value="no" />
    <data-value name="INSTALL_WINDOWS_STARTUP_MENU" value="no" />
    <data-value name="DB_EMAIL_HOST"                value="myserver" />
    <data-value name="DB_EMAIL_ADDRESS"             value="name@bea.com" />

<!--The managedServers data group determines the configuration of the group of
managed servers in the domain. This data group applies only when you select
"Admin
Server with Managed Server(s)" as the value for SERVER-RUN-AS. To use this data
group, uncomment all applicable lines.-->
```

```

<!--      <data-group name="managedServers"> -->
<!--          <data-element> -->
<!--              <data-value name="managedServerRegName"    value="managed1"  /> -->
<!--The following value can be an IP address or a DNS name-->
<!--              <data-value name="managedServerHostIP"      value="host1"  /> -->
<!--              <data-value name="managedServerListenPort"   value="1001"  /> -->
<!--              <data-value name="managedServerSSLListenPort" value="1002"  /> -->
<!--          </data-element> -->
<!--          <data-element> -->
<!--              <data-value name="managedServerRegName"      value="managed2" /> -->
<!--              <data-value name="managedServerHostIP"        value="host2"  /> -->
<!--              <data-value name="managedServerListenPort"    value="2001"  /> -->
<!--              <data-value name="managedServerSSLListenPort" value="2002"  /> -->
<!--          </data-element> -->
<!--          <data-element> -->
<!--              <data-value name="managedServerRegName"      value="managed3" /> -->
<!--              <data-value name="managedServerHostIP"        value="host3"  /> -->
<!--              <data-value name="managedServerListenPort"    value="3001"  /> -->
<!--              <data-value name="managedServerSSLListenPort" value="3002"  /> -->
<!--          </data-element> -->
<!--          <data-element> -->
<!--              <data-value name="managedServerRegName"      value="managed4" /> -->
<!--              <data-value name="managedServerHostIP"        value="host4"  /> -->
<!--              <data-value name="managedServerListenPort"    value="4001"  /> -->
<!--              <data-value name="managedServerSSLListenPort" value="4002"  /> -->
<!--          </data-element> -->
<!--      </data-group> -->

<!--The clusterServers data group determines the configuration of the group of
managed clustered servers in the domain. This data group applies only when you
select "Admin Server with Clustered Managed Server(s)" as the value for
SERVER-RUN-AS. To use this data group, uncomment all applicable lines.-->

<!--      <data-group name="clusterServers"> -->
<!--          <data-element> -->
<!--              <data-value name="clusterServerRegName"      value="cluster1" /> -->
<!--The following value can be an IP address or a DNS name-->
<!--              <data-value name="clusterServerHostIP"        value="host1"  /> -->
<!--              <data-value name="clusterServerListenPort"    value="1001"  /> -->
<!--              <data-value name="clusterServerSSLListenPort" value="1002"  /> -->
<!--          </data-element> -->
<!--          <data-element> -->
<!--              <data-value name="clusterServerRegName"      value="cluster2" /> -->
<!--              <data-value name="clusterServerHostIP"        value="host2"  /> -->
<!--              <data-value name="clusterServerListenPort"    value="2002"  /> -->
<!--              <data-value name="clusterServerSSLListenPort" value="2003"  /> -->
<!--          </data-element> -->
<!--      </data-group> -->

```

```
<!--      <data-value name="clusterServerRegName"      value="cluster3" /> -->
<!--      <data-value name="clusterServerHostIP"      value="host3" /> -->
<!--      <data-value name="clusterServerListenPort"  value="3003" /> -->
<!--      <data-value name="clusterServerSSLListenPort" value="3004" /> -->
<!--      </data-element> -->
<!--      <data-element> -->
<!--      <data-value name="clusterServerRegName"      value="cluster4" /> -->
<!--      <data-value name="clusterServerHostIP"      value="host4" /> -->
<!--      <data-value name="clusterServerListenPort"  value="4004" /> -->
<!--      <data-value name="clusterServerSSLListenPort" value="4005" /> -->
<!--      </data-element> -->
<!--      </data-group> -->

</input-fields>

</domain-template-descriptor>
```

Sample Template for Configuring a Domain with Separate Admin and Managed Servers

The sample template shown in [Listing 4-2](#) can be used for configuring a domain that consists of an administration server plus one or more managed servers during a silent installation.

To download this sample template from a browser, complete the following steps:

1. Click the following link:

<http://e-docs.bea.com/wls/docs70/install/scripts/silent-as-ms.xml>

2. In the popup window that is displayed, choose **File—Save As...**
3. Specify the file name `silent.xml` and save it in the directory containing the WebLogic Server installation program.

You can modify this template according to [Table 4-1](#), and use the new file as a template when installing WebLogic Server in silent mode. In [Listing 4-2](#), the strings highlighted in bold are significant in defining the configuration. Compare the settings for these strings to the settings for corresponding strings in the other sample template files.

Listing 4-2 Configuring a Domain with Separate Administration Server and Managed Server(s)

```

<?xml version="1.0" encoding="UTF-8" ?>

<domain-template-descriptor>

<input-fields>
  <data-value name="BEAHOME" value="C:\bea\user_domains\mydomain" />
  <data-value name="USER_INSTALL_DIR"
value="C:\bea\user_domains\mydomain\weblogic700" />
  <data-value name="RUN_DOMAIN_WIZARD" value="true" />

<!--The following values are used by the Configuration Wizard to create and
configure a domain.-->

  <data-value name="domain.directory"
value="C:\bea\user_domains\mydomain\user_domains\d1" />
  <data-value name="C_domainName" value="d1" />
  <data-value name="C_serverName" value="admin" />
  <data-value name="C_username" value="system" />
  <data-value name="C_password" value="weblogic" />
  <data-value name="C_serverListenAddress" value="" />
  <data-value name="C_serverListenPort" value="8001" />
  <data-value name="C_serverSSLListenPort" value="8002" />

<!--The following value, ClusterMCAddr, must be a class D IP address-->
  <data-value name="ClusterMCAddr" value="237.0.0.1" />
  <data-value name="ADMIN_HOST_NAME_OR_IP" value="adminserver" />
  <data-value name="ADMIN_LISTEN_PORT" value="9999" />
  <data-value name="MANAGED_SERVER_REGISTERED_NAME_IN_ADMIN" value="mmss1" />
  <data-value name="MANAGED_SERVER_REGISTERED_NAME_IN_ADMIN" value="mmss2" />

<!-- The SERVER-RUN-AS value determines the server configuration that the
Configuration Wizard creates. There are four options as indicated by the
following lines. Comment out the three options you do not want to use.-->

<data-value name="SERVER-RUN-AS" value="Admin Server with Managed Server(s)" />
  <data-group name="managedServers">
    <data-element>
      <data-value name="managedServerRegName" value="ms1" />
      <data-value name="managedServerHostIP" value="host1" />
      <data-value name="managedServerListenPort" value="1001" />
      <data-value name="managedServerSSLListenPort" value="1002" />
    </data-element>

    <data-element>
      <data-value name="managedServerRegName" value="ms2" />
      <data-value name="managedServerHostIP" value="host2" />
    </data-element>
  </data-group>

```

```
        <data-value name="managedServerListenPort" value="2001" />
        <data-value name="managedServerSSLListenPort" value="2002" />
    </data-element>
</data-group>

<!-- The selectedJar value determines the template that the Configuration Wizard
uses to create a domain and configure servers.-->
    <data-value name="selectedJar" value="C:\bea\user_domains\mydomain\
weblogic700\common\templates\domains\wls.jar" />
</input-fields>

</domain-template-descriptor>
```

Sample Template for Configuring a Cluster of Managed Servers

The sample template shown in [Listing 4-3](#) can be used for configuring a domain that consists of an administration server plus a cluster of managed servers during a silent installation.

To download this sample template from a browser, complete the following steps:

1. Click the following link:
<http://e-docs.bea.com/wls/docs70/install/scripts/silent-clus.xml>
2. In the popup window that is displayed, choose **File**→**Save As...**
3. Specify the file name `silent.xml` and save it in the directory containing the WebLogic Server installation program.

You can modify this template according to [Table 4-1](#), and use the new file as a template when installing WebLogic Server in silent mode. In [Listing 4-3](#), the strings highlighted in bold are significant in defining the configuration. Compare the settings for these strings to the settings for corresponding strings in the other sample template files.

Listing 4-3 Configuring a Domain with Administration server and Clustered Managed Server(s)

```
<?xml version="1.0" encoding="UTF-8" ?>

<domain-template-descriptor>

<input-fields>
```



```

    <data-value name="BEAHOME" value="C:\bea\user_domains\mydomain" />
    <data-value name="USER_INSTALL_DIR"
value="C:\bea\user_domains\mydomain\weblogic700" />
    <data-value name="RUN_DOMAIN_WIZARD" value="true" />

<!-- The following values are used by the Configuration Wizard to create and
configure a domain.-->
    <data-value name="domain.directory"
value="C:\bea\user_domains\mydomain\user_domains\myCluster" />
    <data-value name="C_domainName" value="myCluster" />
    <data-value name="C_serverName" value="admin" />
    <data-value name="C_username" value="system" />
    <data-value name="C_password" value="weblogic" />
    <data-value name="C_serverListenAddress" value="localhost" />
    <data-value name="C_serverListenPort" value="8001" />
    <data-value name="C_serverSSLListenPort" value="8002" />
    <data-value name="ClusterName" value="mycluster" />
    <data-value name="ClusterPort" value="7777" />

<!-- The following value, ClusterMCAddr, must be a class D IP address-->
    <data-value name="ClusterMCAddr" value="237.0.0.1" />
    <data-value name="ADMIN_HOST_NAME_OR_IP" value="admin" />
    <data-value name="ADMIN_LISTEN_PORT" value="8001" />
    <data-value name="MANAGED_SERVER_REGISTERED_NAME_IN_ADMIN" value="cs1" />
    <data-value name="MANAGED_SERVER_REGISTERED_NAME_IN_ADMIN" value="cs2" />

<!-- The SERVER-RUN-AS value determines the server configuration that the
Configuration Wizard creates. There are four options as indicated by the
following lines. Comment out the three options you do not want to use.-->

    <data-value name="SERVER-RUN-AS" value="Admin Server with Clustered
Managed Server(s)" />

<data-group name="clusterServers">
    <data-element>
        <data-value name="clusterServerRegName" value="cs1" />
        <data-value name="clusterServerHostIP" value="host1" />
        <data-value name="clusterServerListenPort" value="1001" />
        <data-value name="clusterServerSSLListenPort" value="1002" />
    </data-element>

    <data-element>
        <data-value name="clusterServerRegName" value="cs2" />
        <data-value name="clusterServerHostIP" value="host2" />
        <data-value name="clusterServerListenPort" value="2001" />
        <data-value name="clusterServerSSLListenPort" value="2002" />
    </data-element>
</data-group>

```

```
- <!-- The selectedJar value determines the template that the Configuration Wizard uses to create a domain and configure servers.-->
    <data-value name="selectedJar"
value="C:\bea\user_domains\mydomain\weblogic700\common\templates\domains\wls.jar" />
</input-fields>

</domain-template-descriptor>
```

Sample Template for Adding a Managed Server to an Existing Domain

The sample template shown in [Listing 4-4](#) can be used for adding a managed server to an existing domain.

To download this sample template from a browser, complete the following steps:

1. Click the following link:

<http://e-docs.bea.com/wls/docs70/install/scripts/silent-add.xml>

2. In the popup window that is displayed, choose **File—Save As...**
3. Specify the file name `silent.xml` and save it in the directory containing the WebLogic Server installation program.

You can modify this template according to [Table 4-1](#), and use the new file as a template when installing WebLogic Server in silent mode. In [Listing 4-4](#), the strings highlighted in bold are significant in defining the configuration. Compare the settings for these strings to the settings for corresponding strings in the other sample template files.

Listing 4-4 Template for Adding a Managed Server to an Existing Domain

```
<?xml version="1.0" encoding="UTF-8" ?>

<domain-template-descriptor>

<input-fields>
    <data-value name="BEAHOME" value="C:\bea\user_domains\mydomain" />
    <data-value name="USER_INSTALL_DIR"
value="C:\bea\user_domains\mydomain\weblogic700" />
    <data-value name="RUN_DOMAIN_WIZARD" value="true" />
```

```

<!-- The following values are used by the Configuration Wizard to create and
configure a domain.-->
    <data-value name="domain.directory"
value="C:\bea\user_domains\mydomain\user_domains\d2" />
    <data-value name="C_domainName" value="d2" />
    <data-value name="C_serverName" value="admin" />
    <data-value name="C_username" value="system" />
    <data-value name="C_password" value="weblogic" />
    <data-value name="C_serverListenAddress" value="" />
    <data-value name="C_serverListenPort" value="8001" />
    <data-value name="C_serverSSLListenPort" value="8002" />

<!-- The following value, ClusterMCAddr, must be a class D IP address-->
    <data-value name="ClusterMCAddr" value="237.0.0.1" />
    <data-value name="ADMIN_HOST_NAME_OR_IP" value="adminserver" />
    <data-value name="ADMIN_LISTEN_PORT" value="9999" />
    <data-value name="MANAGED_SERVER_REGISTERED_NAME_IN_ADMIN"
value="mmss1" />
    <data-value name="MANAGED_SERVER_REGISTERED_NAME_IN_ADMIN"
value="mmss2" />

<!-- The SERVER-RUN-AS value determines the server configuration that the
Configuration Wizard creates. There are four options as indicated by the
following lines. Comment out the three options you do not want to use.-->

    <data-value name="SERVER-RUN-AS" value="Managed Server (with owning
Admin Server
configuration)" />

<data-group name="managedServers">
    <data-element>
        <data-value name="managedServerRegName" value="ms1" />
        <data-value name="managedServerHostIP" value="host1" />
        <data-value name="managedServerListenPort" value="1001" />
        <data-value name="managedServerSSLListenPort" value="1002" />
    </data-element>

    <data-element>
        <data-value name="managedServerRegName" value="ms2" />
        <data-value name="managedServerHostIP" value="host2" />
        <data-value name="managedServerListenPort" value="2001" />
        <data-value name="managedServerSSLListenPort" value="2002" />
    </data-element>
</data-group>

<!-- The selectedJar value determines the template that the Configuration Wizard
uses to create a domain and configure servers.-->
    <data-value name="selectedJar" value="C:\bea\user_domains\mydomain

```

```
\weblogic700\common\templates\domains\wls.jar" />  
</input-fields>  
</domain-template-descriptor>
```

Starting the Silent-Mode Installation Process on a Windows System

To start the silent-mode installation process on a Windows system, follow these steps:

1. Log in to the Windows system.

If you want to install WebLogic Server as a Windows service, you must have Administrator privileges. For information about installing WebLogic Server as a Windows service, see [Setting Up a WebLogic Server as a Windows Service](#) in the *BEA WebLogic Server Administration Guide* at

<http://e-docs.bea.com/wls/docs70/adminguide/startstop.html#SettingUpServerAsWindowsService>.

2. Open an MS-DOS command prompt window.
3. Go to the directory that contains the installation file and start the installation procedure by entering the following command, making sure to specify the *full* pathname of the `silent.xml` template file:

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

where *filename* is the name of the WebLogic Server installation file, and *path_to_silent.xml* is the *full* path to the `silent.xml` template file.

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

```
serverXXX_win32.exe -mode=silent -silent_xml=D:\silent.xml  
-log=D:\logs\wls_install.log
```

where `xxx` is the version of the software you are installing.

The path must be to a file. All folders in the path must exist before you execute the command or the installation program will not create the log file. For more information, see [“Generating a Verbose Installation Log” on page 1-16](#).

Starting the Silent-Mode Installation Process on a UNIX System

The WebLogic Server installation program requires a Java run-time environment (JRE) to run. A Java 2 Software Development Kit (SDK), which includes a JRE, is bundled in the Windows installation program and in some UNIX installation programs (those with filenames ending in `.bin`). For other UNIX platforms, the WebLogic Server installation program does not include the Java 2 SDK in the installation program. Filenames for these installation programs end in `.jar`. To run the `.jar` installation programs, you must have the appropriate version of the Java 2 SDK installed on your system, and include the `bin` directory of the Java 2 SDK at the front of the `PATH` variable. It is important that you use an SDK because the installation process sets the `JAVA_HOME` and related variables to point to this directory.

Starting Silent-Mode Installation for `.bin` Installation Files

Note: During silent-mode installation, the installation program does not validate entries in the `silent.xml` file. If there are errors in the `silent.xml` file, the installation will fail.

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

1. Log in to the target UNIX system.
2. Open a command-line shell.
3. Go to the directory that contains the installation file and start the installation procedure by entering the following command, making sure to specify the *full* pathname of the `silent.xml` template file:

```
chmod a+x filename
./filename -mode=silent -silent_xml=/path_to_silent.xml
```

where *filename* is the name of the WebLogic Server installation file, and *path_to_silent.xml* is the *full* path to the `silent.xml` template file.

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

```
serverXXX_solaris.bin -mode=silent -silent_xml=/home/silent.xml
-log=/logs/wls_install.log
```

where *xxx* is the version of the software you are installing.

The path must be to a file. All folders in the path must exist before you execute the command or the installation program will not create the log file.

Starting Silent-Mode Installation for .jar Installation Files

Note: During silent-mode installation, the installation program does not validate entries in the `silent.xml` file. If there are errors in the `silent.xml` file, the installation will fail.

To start the silent-mode installation process for installation files ending in `.jar`, follow these steps:

- 1. Log in to the target UNIX system.
- 2. Open a command-line shell.
- 3. Include the `bin` directory of an appropriate SDK at the beginning of the `PATH` variable on the target system. For example:

```
PATH=$JAVA_HOME/bin:$PATH
export PATH
```

where `JAVA_HOME` is the full path to the SDK directory.

- 4. Go to the directory that contains the installation file and start the installation procedure as described in [Table 4-2](#), making sure to specify the *full* pathname of the `silent.xml` template file.

Table 4-2 Commands to Start WebLogic Server Installation in Silent Mode

If you are . . .	Enter the following command . . .
Installing on a UNIX platform other than AIX	<code>java -jar filename.jar -mode=silent -silent_xml=/path_to_silent.xml</code>
Installing on an AIX platform	<code>java -classpath filename.jar com.bea.installer.BEAInstallController -mode=silent -silent_xml=/path_to_silent.xml</code>

For all commands, `filename.jar` is the name of the WebLogic Server installation file (for example `pj_server700_generic.jar`) and `path_to_silent.xml` is the *full* path to the `silent.xml` template file.

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

```
java -jar filename.jar -mode=silent -silent_xml=/home/silent.xml -log=/logs/wls_install.log
```

The path must be to a file. All folders in the path must exist before you execute the command or the installation program will not create the log file.

Installing and Updating a WebLogic Server License

WebLogic Server requires a valid product license to run. The following sections explain how to acquire, install, and update a WebLogic Server license:

- [“About the WebLogic Server License” on page 5-1](#)
- [“Updating Your license.bea File” on page 5-2](#)
- [“Enabling 128-Bit Encryption” on page 5-4](#)
- [“Upgrading Licenses from Previous WebLogic Server Releases” on page 5-5](#)

About the WebLogic Server License

WebLogic Server 7.0 uses an XML-format license file called `license.bea`. This license file, stored in the BEA Home directory, is used for the BEA WebLogic products installed on the target system. For details about the BEA Home directory, see [“BEA Home Directory” on page 1-13](#).

For information about the licenses available for all WebLogic Platform components, see the [Licensing](#) page on the e-docs Web site at

<http://e-docs.bea.com/platform/docs70/interm/license.html>.

Evaluation Licenses

The first time you download and install a BEA WebLogic product, the installation program installs an evaluation license so that you can start using the product immediately. Subsequently, when you download and install additional BEA products that contain a `license.bea` file as part of the

distribution, the installer program automatically adds the new evaluation product licenses to the `license.bea` file, but does not extend the evaluation period.

To use WebLogic Server beyond the evaluation period, contact your salesperson about extending the evaluation period or purchasing a development or production license.

All WebLogic Server evaluation products are licensed for use on a single server machine and allow up to 20 connections to the server.

Development and Production Licenses

When you purchase a WebLogic Server development or production license, you receive a license through e-mail to replace the evaluation license installed with WebLogic Server. After installing the WebLogic Server software and receiving the development or production license, you must update the existing `license.bea` file with the license file you received. See [“Updating Your license.bea File” on page 5-2](#).

Updating Your license.bea File

You must update your `license.bea` file if at least one of the following is true:

- You applied for and received an extension to the evaluation period of WebLogic Server.
- You purchased additional BEA WebLogic software.
- You obtained a new distribution that includes new products.
- You possess a non-expiring license file for an earlier release of WebLogic Server and you want to upgrade to a WebLogic Server 7.0 license after downloading WebLogic Server 7.0 from the BEA Web site. You must convert the license to a WebLogic Server 7.0 license. To do so, see [“Upgrading Licenses from Previous WebLogic Server Releases” on page 5-5](#).
- You possess either a `WebLogicLicense.XML` file or a `WebLogicLicense.class` file, which are license files used in pre-6.0 versions (5.1 or earlier) of WebLogic Server. You must convert these license files to a `license.bea` file. To do so, see [“Upgrading WebLogic Server License Files” in the *Upgrade Guide*](#) at http://e-docs.bea.com/wls/docs70/upgrade/upgrade45_51to70.html#upgrade_license.

In each case, you receive a license update file in an e-mail attachment. You then update your `license.bea` file by performing the following procedure:

Note: Enabling 128-bit encryption requires that the 128-bit encryption license be present in the `license.bea` file *before* you install the WebLogic Server software. For details, see [“Enabling 128-Bit Encryption” on page 5-4](#).

1. Save the license update file that you received through e-mail with a name other than `license.bea`, in the target BEA Home directory. For example, save the file as `platform_license.bea`. Use this file as the *license_update_file* in step 4 of this procedure.

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

2. Open a command prompt window or a command shell and go to the target BEA Home directory.
3. If it is not already included, add the Java 2 SDK to your `PATH` variable by entering the following commands:

- On a Windows system:

```
set PATH=BEA_HOME\sdk\bin;%PATH%
```

- On a UNIX system:

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

In these commands, *sdk* is the directory name of the Java 2 SDK being used for this installation. For example, `jdk131_06` or `jrockit70sp2_131`.

4. Merge the license update file into your existing license by entering one of the following commands:

- On a Windows system:

```
UpdateLicense license_update_file
```

- On a UNIX system:

```
sh UpdateLicense.sh license_update_file
```

license_update_file is the name to which you saved the license update file in step 1.

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

Although no one else can use your license file, you should save it in a place that is protected from both malicious and innocent tampering.

Enabling 128-Bit Encryption

Two levels of secure sockets layer (SSL) encryption are available for WebLogic Server: 56-bit and 128-bit. An evaluation license comes with only 56-bit encryption enabled, whereas a developer or production license may be purchased with either 56-bit or 128-bit encryption enabled.

The installer program must find the 128-bit encryption license in the `license.bea` file *before* the installer enables 128-bit encryption for the WebLogic Server installation. If the installer program does not find a WebLogic Server license in the `license.bea` file, or finds only a 56-bit encryption license for WebLogic Server in the `license.bea` file, the installer includes 56-bit SSL plug-ins in the WebLogic Server installation. If the installer program finds a 128-bit encryption license for WebLogic Server in the `license.bea` file, the installer includes both 56-bit *and* 128-bit SSL plug-ins in the WebLogic Server installation.

Note: A 128-bit license is required to be available *before* installation due to United States Export control laws. BEA is not allowed, by U.S. law, to install 128-bit capable code on any machine that does not have the appropriate license. If you already installed WebLogic Server without the 128-bit encryption license and you want 128-bit encryption, you need to uninstall the software, place the 128-bit encryption license for WebLogic Server in the BEA Home directory, and then reinstall WebLogic Server.

When creating a new BEA Home directory for a WebLogic Server installation intended for 128-bit encryption, proceed as follows:

1. Acquire a 128-bit encryption license for WebLogic Server.

For details, contact BEA Sales at <http://www.bea.com/contact>.

2. Create a new directory that you want use as a BEA home directory and place the 128-bit encryption license in the new directory. The license file must be named `license.bea`.
3. Install the WebLogic Server software.

For instructions, see one of the following installation procedures:

- “Installing WebLogic Server Using Graphical-Mode Installation” on page 2-1
- “Installing WebLogic Server Using Console-Mode Installation” on page 3-1
- “Installing WebLogic Server Using Silent-Mode Installation” on page 4-1

Upgrading Licenses from Previous WebLogic Server Releases

The format of the `license.bea` file changes with each release of WebLogic Server. To upgrade a `license.bea` file from a previous release of WebLogic Server to a license for the current version, complete the following steps.

For information about upgrading your WebLogic Server installation, see the *Upgrade Guide* at <http://e-docs.bea.com/wls/docs70/upgrade/index.html>.

1. Log in to the BEA eLicense Web site at <http://elicense.bea.com>.
Note: You need a BEA eLicense account to log in to this Web site. If you do *not* have a BEA eLicense account click the Register link on the Customer Support site to register for an account.
2. In the left navigation area of the Web page, click Upgrade/Downgrade and follow the instructions on the page. If the license you want to upgrade is not listed, click the Add a Missing License link in the left navigation area. The BEA Licensing team will research the missing license for you.
3. You will receive the upgraded license file through e-mail.

Installing and Updating a WebLogic Server License

Installing WebLogic Server Service Packs and Rolling Patches

You can upgrade your WebLogic Server 7.0 installation by using one of two methods: Smart Update or a downloadable upgrade installer. The following sections describe how to upgrade your software using either method:

- “WebLogic Server Service Packs and Rolling Patches” on page 6-1
- “Important Note About Updating WebLogic Server 7.0 GA” on page 6-3
- “Installing Service Packs and Rolling Patches Using Smart Update” on page 6-4
- “Installing Service Packs and Rolling Patches with a Downloadable Installer” on page 6-7
- “What’s Next?” on page 6-14

WebLogic Server Service Packs and Rolling Patches

Periodically, BEA releases a service pack or a rolling patch for WebLogic Server. A service pack is an update to an existing release that includes solutions to known problems and other product enhancements. Service packs typically do not replace an installation of WebLogic Server, but rather change and add to the installation. A rolling patch provides bug fixes between service pack updates.

Note: Service pack and rolling patch updates are available for registered support customers only from a password-protected Web site. You must log in to the BEA Customer Support Web site to download the updates. If you do not have an eSupport account, you can register for one at <http://support.bea.com>.

You can install service packs and rolling patches using the following methods:

- Use Smart Update to search for, download, and install software updates from the BEA Web site. Smart Update downloads only the updates for the software components currently installed in the target BEA Home directory. For instructions, see [“Installing Service Packs and Rolling Patches Using Smart Update” on page 6-4](#).

Note: Smart Update upgrades your Windows installation to use the Sun Java 2 SDK and your Linux installation to use the WebLogic JRockit SDK. If you want to use a different SDK, you should use a WebLogic Platform upgrade installer that is bundled with the appropriate SDK or change the SDK, as described in "Switching JVMs in WebLogic Platform" in the *WebLogic Platform Release Notes*, at the following URL:

<http://e-docs.bea.com/platform/docs70/relnotes/relnotes.html#nonbundledJVM>

- Download the package upgrade installer from the BEA Customer Support Web site at <http://support.bea.com>. The upgrade installation program supports graphical and console modes of installation. For instructions, see [“Installing Service Packs and Rolling Patches with a Downloadable Installer” on page 6-7](#).

Both Smart Update and the package upgrade installer create a backup file containing the media state of the current installation and information about files that were added during the upgrade. This backup file is used to restore system state if any errors occur during installation, and when you uninstall or roll back an upgrade installation. For a typical upgrade installation of WebLogic Platform (that is, all WebLogic Platform component products installed), the backup file requires a minimum of 250MB of available disk space.

Important Notes About the Package Upgrade Installer

The following lists important notes about the package upgrade installer:

- The upgrade installer only updates files installed by the WebLogic Platform installation program.
- The package upgrade installer replaces the JVM in the current installation with the JVM that is bundled with the package upgrade installer. For example, if your current installation uses the Sun JVM and you upgrade your installation using a package upgrade installer that is bundled with the WebLogic JRockit JVM, the resulting installation will use the WebLogic JRockit JVM.
- If you are not using the JVM that was bundled with the WebLogic Platform installation **and** you have edited your scripts to reference the new JVM location, the upgrade installer will not update all of the edited scripts appropriately unless you edit the scripts to restore the original JVM values.

To avoid manual editing in the future, it is recommended that you rename the non-bundled JVM to match the directory structure of the bundled JVM, as described in “Switching JVMs in WebLogic Platform” in the *WebLogic Platform Release Notes* at the following URL:

<http://e-docs.bea.com/platform/docs81/relnotes/relnotes.html#nonbundledJVM>

- The upgrade installer does not update any user-created files, or directories created using the Configuration Wizard (`user_projects` by default).
- Temporary patches are not compatible across service packs. If you installed a temporary patch and updated your classpath to reference the patch, you may need to remove any references to the patch from your classpath.

Important Note If You Use the Node Manager in a Clustered Environment

If you are using Node Manager to manage your servers in a clustered environment, you should back up the following directory and files on all machines that are running the Node Manager before upgrading your installations:

Windows:

```
WL_HOME\common\nodemanager
WL_HOME\server\bin\startNodeManager.cmd
```

UNIX:

```
WL_HOME/common/nodemanager
WL_HOME/server/bin/startNodeManager.sh
```

In these pathnames, `WL_HOME` is the root directory of your WebLogic Platform installation, for example, `c:\bea\weblogic700`.

Once the upgrade installation is complete, you should restore these files.

For more information about Node Manager, see “Managing Server Availability with Node Manager” in *Creating and Configuring WebLogic Server Domains* at:

http://e-docs.bea.com/wls/docs70/admin_domain/nodemgr.html

Important Note About Updating WebLogic Server 7.0 GA

If you installed the stand-alone WebLogic Server 7.0 GA release (version 7.0.0.0) and did not upgrade to the version available with WebLogic Platform 7.0 (WebLogic Server version 7.0.0.1), you cannot use Smart Update to install service packs. Instead you can use a package upgrade installer that you can download from the BEA Customer Support Web site at <http://support.bea.com>. For

instructions, see “[Installing Service Packs and Rolling Patches with a Downloadable Installer](#)” on [page 6-7](#). After you install a service pack, you can use Smart Update to install future service packs.

To see which version of WebLogic Server you have installed, open `BEA_HOME\logs\log.txt` (`BEA_HOME/logs/log.txt` on UNIX) in a text editor and look at the last entry in the log file. Each line in the log file represents an installation event for the current BEA home—an installation or an uninstallation. If the log entry indicates that the version installed is WebLogic Platform 7.0 SP0 or earlier, you cannot use Smart Update. If the log entry indicates that the version installed is WebLogic Platform 7.0.0.1 or later, you *can* use Smart Update to install Service Pack 1 (7.0.1.0) and future service packs.

Note: WebLogic Server and WebLogic Platform use the same installation framework. Therefore, installation log entries use the term *WebLogic Platform* to indicate an installation of either WebLogic Server or WebLogic Platform.

Installing Service Packs and Rolling Patches Using Smart Update

Note: Smart Update upgrades your Windows installation to use the Sun Java 2 SDK and your Linux installation to use the WebLogic JRockit SDK. If you want to use a different SDK, you should use a WebLogic Platform upgrade installer that is bundled with the appropriate SDK or change the SDK, as described in “Switching JVMs in WebLogic Platform” in the *WebLogic Platform Release Notes*, at the following URL:

<http://e-docs.bea.com/platform/docs70/relnotes/relnotes.html#nonbundledJVM>

You can use the Smart Update feature to periodically check for available software updates. When you start Smart Update, it checks the version of products installed (associated with the current BEA Home directory), and then connects to the BEA Web site to check for available service packs. The Smart Update window includes three panes:

- **Installed Products**—The left pane of the Smart Update window contains a tree displaying product and release information for products installed in the target BEA Home directory.
- **Upgrade Options**—The top-right pane lists the service packs and rolling patches, if any, that are available for the installed products.
- **Downgrade Options**—The bottom-right pane lists the versions of the product to which you can revert your installation, if applicable. For details about uninstalling maintenance upgrades with Smart Update, see “[Uninstalling a Service Pack or Rolling Patch with Smart Update](#)” on [page 8-9](#).

Note: Smart Update only checks for products associated with the current BEA Home directory. If you have multiple BEA Home directories on your system, you must run Smart Update for each one to install available service packs. For more information about BEA Home directories, see [“BEA Home Directory” on page 1-13](#).

To install service packs or rolling patches using Smart Update, follow these steps:

1. Shut down any servers that are running. *Hot installation* of a service pack or rolling patch is not supported.
2. Start Smart Update as described in [Table 6-1](#).

Table 6-1 Starting Smart Update

To start Smart Update on this platform . . .	Perform the following steps . . .
Windows	<p>From the Start Menu:</p> <ul style="list-style-type: none"> • Choose Start—Programs—BEA WebLogic Platform 7.0—Smart Update <p>From an MS-DOS command prompt window:</p> <ol style="list-style-type: none"> 1. Go to the <code>BEA_HOME/utills</code> directory, where <code>BEA_HOME</code> is the BEA Home directory in which you installed WebLogic Server. 2. Enter the following command at the prompt: <code>bsu.cmd</code> <p>The BEA Smart Update window is displayed.</p>
<p>UNIX</p> <p>Note: To run Smart Update on a UNIX system, your console must support a Java-based GUI.</p>	<ol style="list-style-type: none"> 1. Log in to the UNIX system. 2. Open a command shell and change to the <code>BEA_HOME/utills</code> directory. 3. Enter the following command: <code>bsu.sh</code> <p>The BEA Smart Update window is displayed.</p>

3. In the left pane of the Smart update window, select the release for the product you want to update.

Available service packs or rolling patches, if any, are displayed in the Upgrade Options section of the window.

4. In the Upgrade Options pane, select the service pack or rolling patch to install and click OK.

The Enter BEA eSupport Identification dialog box is displayed.

5. Enter your valid username and password and click Verify.

Note: You must have a valid eSupport account to install a service pack or rolling patch using Smart Update. You can register for an account at <http://support.bea.com>.

The BEA Installation Program Welcome window is displayed.

6. Click Next to proceed with the installation. You may cancel the installation at any time by clicking Exit.

The Downloading Archive Information window is displayed briefly, followed by the Specify Download Options window.

7. Indicate your preferences for downloading the software as follows:

- Specify a storage directory to which you want to download the software upgrade source files.
- Indicate whether you want to delete the downloaded files after the installation is complete by selecting the appropriate check box. If you do not select this check box, the downloaded files are saved to the storage directory you specify.
- Indicate whether you want to use an HTTP Proxy server for the download by selecting the appropriate check box. To use an HTTP Proxy server, you must provide the following information:

Host—enter the name or IP address of the proxy server

Port—enter the port number of the proxy server

8. Click Next.

The Archive Download window is displayed.

9. 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 need to click Next when the download is complete to proceed with the installation.

When the download is complete, the Archive Integrity Check window is displayed while it verifies the integrity of the upgrade archive files you downloaded.

When the archive verification is complete, the Confirm Product Directory window is displayed, which contains the path to the BEA home directory and to the product directory in which the WebLogic Server software will be updated.

10. Click Next to proceed with the upgrade installation.

A status window displays the progress of the installation.

11. Click Done on the Installation Complete window.

The Smart Update window is displayed. The Installed Products pane shows the upgraded release level.

Installing Service Packs and Rolling Patches with a Downloadable Installer

When a service pack or rolling patch for WebLogic Server is available, you can download the release from the BEA Customer Support Web site at <http://support.bea.com>.

Note: Service pack and rolling patch updates are available for registered support customers only; the download site is password protected. You will need to log in using your eSupport username and password to download the updates. If you do not have an eSupport account, you can register for one on the BEA Customer Support Web site.

Each release comes with its own installation program that includes update files for WebLogic Server (including WebLogic Workshop) and server samples for installation. However, the upgrade installation program only upgrades components already installed on your system. For example, if you installed the WebLogic Server component without the server samples component, the upgrade installer upgrades the server software and does not install the server samples. You cannot use the upgrade installer to install additional components. To install additional components, you must use either the net or package installers, as described in “[WebLogic Server Distribution Methods](#)” on [page 1-3](#).

You can run the upgrade installation program in the following modes on both UNIX and Windows platforms:

- Graphical mode. See “[Installing a Service Pack Upgrade Using Graphical Mode](#)” on [page 6-8](#) for instructions.
- Console mode. See “[Installing a Service Pack Upgrade Using Console Mode](#)” on [page 6-10](#) for instructions.

Notes: To run graphical-mode installation, your console must support a Java-based GUI. If the installation program determines that your system cannot support a Java-based GUI, the installation program automatically starts console-mode installation.

The upgrade installer does not support silent-mode installation.

The WebLogic Server installation program requires a Java run-time environment (JRE) to run. A Java 2 Software Development Kit (SDK), which includes a JRE, is bundled in the Windows installation program and in some UNIX installation programs (those with filenames ending in `.bin`). For other UNIX platforms, the WebLogic Server installation program does *not* include the Java 2 SDK in the installation program. Filenames for these installation programs end in `.jar`. To run the `.jar` installation programs, you must have the appropriate version of the Java 2 SDK installed on your system, and include the `bin` directory of the Java 2 SDK at the front of the `PATH` variable. It is important that you use an SDK because the installation process sets the `JAVA_HOME` and related variables to point to this directory.

Installing a Service Pack Upgrade Using Graphical Mode

Follow these steps to download and install a service pack or rolling patch in graphical mode on UNIX and Windows systems:

1. Download the service pack upgrade installer specific to your platform from the BEA Customer Support Web site at <http://support.bea.com>.
Note: You will need to log in using your eSupport username and password to download a service pack or rolling patch. If you do not have an eSupport account, you can register for one on the BEA Customer Support Web site.
2. Shut down any servers that are running. *Hot installation* of a service pack or rolling patch is not supported.
3. Start the upgrade installer as described in [Table 6-2](#).

Table 6-2 Starting an Upgrade Installer in Graphical Mode

To start the upgrade installer on this platform . . .	Perform the following steps . . .
Windows	<ol style="list-style-type: none"> 1. Go to the directory where you downloaded the installation program and double-click <i>filename.exe</i>, where <i>filename.exe</i> is name of the installation file you downloaded from the BEA Customer Support Web site, for example, <i>serverXXX_upgrade_win32.exe</i>. The installation program begins to install the upgrade. 2. Proceed to step 4 following this table.
UNIX	<p>For installers with filenames ending in .bin</p> <ol style="list-style-type: none"> 1. Go to the directory where you downloaded the installation program and invoke the installation procedure by entering the following commands: <pre>chmod a+x filename.bin ./filename.bin</pre> where <i>filename.bin</i> is the name of the upgrade installation program you downloaded from the BEA Customer Support Web site, for example <i>serverXXX_upgrade_solaris.bin</i>. The installation program begins to install the upgrade. 2. Proceed to step 4 following this table. <hr/> <p>For installers with filenames ending in .jar</p> <ol style="list-style-type: none"> 1. Include the <code>bin</code> directory of an appropriate SDK at the beginning of the <code>PATH</code> variable on the target system. For example: <pre>PATH=JAVA_HOME/bin:\$PATH export PATH</pre> where <i>JAVA_HOME</i> is the full path to the Java 2 SDK directory. 2. Go to the directory where you downloaded the installation file and launch the installation program by entering the following command: <pre>java -jar filename.jar</pre> where <i>filename.jar</i> is the name of the upgrade installation program you downloaded from the BEA Customer Support Web site, for example <i>pj_serverXXX_upgrade_generic.jar</i>. The installation program begins to install the upgrade. 3. Proceed to step 4 following this table.

4. Review the text in the Welcome window and click Next.

The Choose BEA Home Directory window is displayed.

Note: You may cancel the installation at any time by clicking Exit.

5. Select the BEA Home directory containing the release of WebLogic Server you want to upgrade and click Next.

The Confirm Product Directory window is displayed, which includes the path to the BEA home directory and to the directory in which the WebLogic Server software will be updated.

6. Click Next.

A progress window is displayed during the upgrade installation. When the installation is finished, the Installation Complete window is displayed.

7. Click Done on the Installation Complete window to exit the installation program.

Installing a Service Pack Upgrade Using Console Mode

Follow these steps to download and install a service pack or rolling patch in console mode (from the command line) on UNIX and Windows systems:

Note: The sample console text and directory pathnames in this section use UNIX conventions (forward slashes) in pathnames, for example, `/home1/bea/weblogic700`. When entering pathnames on a Windows system, use the Windows convention (backward slashes) for pathnames, for example `c:\bea\weblogic700`.

1. Download the service pack upgrade installer specific to your platform from the BEA Customer Support Web site at <http://support.bea.com>.

Note: You must log in using your eSupport username and password to download a service pack or rolling patch. If you do not have an eSupport account, you can register for one on the BEA Customer Support Web site.

2. Shut down any servers that are running. *Hot installation* of a service pack or rolling patch is not supported.
3. Start the upgrade installer as described in [Table 6-3](#).

Table 6-3 Starting an Upgrade Installer in Console Mode

To start the upgrade installer on this platform . . .	Perform the following steps . . .
Windows	<ol style="list-style-type: none">1. Open an MS-DOS command prompt window.2. Go to the directory where you downloaded the installation program and invoke the installation procedure by entering the following command: <code>filename.exe -mode=console</code> where <code>filename.exe</code> is name of the installation file you downloaded from the BEA Customer Support Web site, for example, <code>serverXXX_upgrade_win32.exe</code>. The upgrade installer begins to install the WebLogic Server maintenance release.3. Proceed to step 4 following this table.

Table 6-3 Starting an Upgrade Installer in Console Mode

To start the upgrade installer on this platform . . .	Perform the following steps . . .
UNIX	<div><p>For installers with filenames ending in .bin</p><ol style="list-style-type: none">Go to the directory where you downloaded the installation program and invoke the installation procedure by entering the following commands: <pre>chmod a+x filename.bin ./filename.bin -mode=console</pre>where <i>filename.bin</i> is the name of the upgrade installation program you downloaded from the BEA Customer Support Web site, for example <i>serverXXX_upgrade_solaris.bin</i>. The installation program begins to install the upgrade.Proceed to step 4 following this table.</div> <div><p>For installers with filenames ending in .jar</p><ol style="list-style-type: none">Include the <code>bin</code> directory of an appropriate SDK at the beginning of the <code>PATH</code> variable on the target system. For example: <pre>PATH=JAVA_HOME/bin:\$PATH export PATH</pre>where <i>JAVA_HOME</i> is the full path to the Java 2 SDK directory.Go to the directory where you downloaded the installation file and launch the installation program by entering the following command: <pre>java -jar filename.jar -mode=console</pre>where <i>filename.jar</i> is the name of the upgrade installation program you downloaded from the BEA Customer Support Web site, for example <i>pj_serverXXX_upgrade_generic.jar</i>. The installation program begins to install the upgrade.Proceed to step 4 following this table.</div>

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

For example:

```
serverXXX_upgrade_solaris.bin -mode=console
-log=/home/bea/logs/server_install.log
```

The path must be to a file. All folders in the path must exist before you execute the command; otherwise, the installation program will not create the log file.

4. At the Welcome prompt, type `next` or press `Enter` to continue with the installation process.

The Choose BEA Home directory prompt is displayed.

5. Select the BEA Home directory associated with the installation of WebLogic Server that you want to update. If you have only one installation of WebLogic Server installed on the current machine, only one BEA Home directory is listed. For details about the BEA Home directory, see [“BEA Home Directory” on page 1-13](#).

The installation program displays the following prompt:

```
Choose BEA Home Directory:
```

```
->1| /nfs/home/user1/bea1
    2| /nfs/home/user1/bea2
```

```
Enter index number to select OR [Exit][Previous][Next]>
```

Press `Enter` to use the selected BEA Home directory or type the number of the BEA Home directory that you want to select.

Whether you accept the selected BEA Home directory or select a different BEA Home directory, you are prompted to confirm your selection, as shown in the following example:

```
Choose BEA Home Directory:
```

```
->1| Yes, Use this BEA home directory [/nfs/home/user1/bea1]
    2| No, return to BEA home directory selection
```

```
Enter index number to select OR [Exit][Previous][Next]>
```

Type `1` or press `Enter` to accept your selection. Otherwise, type `2` to return to the Choose BEA Home Directory panel where you can modify your entry.

The Confirm Product Directory panel is displayed.

6. The Confirm Product Directory panel indicates the folder in which the WebLogic Server software will be updated. For example:

```
Confirm Product Directory:
```

```
Product Installation Directory: [/nfs/home/user1/bea1/weblogic700]
```

```
Files in /nfs/home/user1/bea1/weblogic700 will now be upgraded to the
7.0.2.0 maintenance level.
```

```
Enter [Exit][Previous][Next]>
```

Press `Enter` or type `next` to continue.

7. After you confirm the product directory, the installation program makes a backup copy of specific files from the previous installation and then installs new versions of the files.

When the installation is complete, the following prompt is displayed:

```
Install Complete

Congratulations! WebLogic Platform 7.0.2.0
has been successfully installed to
/nfs/home/user1/bea1/weblogic700.

Press any key to continue OR [Exit]>
```

8. Press any key to exit the installation program.

Upgrading Web Server Plug-Ins

If you are using a Web server with your WebLogic Platform installation, it is important that you keep your Web server up to date to ensure you have all the latest security patches and support. Updated Web server plug-ins are included when you upgrade your WebLogic Server installation. Although it is not required, you may want to replace the Web server plug-ins installed with your Web server with the updated versions.

For details about installing the Web server plug-ins, see *Using Web Server Plug-Ins with WebLogic Server* at the following URL

<http://e-docs.bea.com/wls/docs70/plugins/index.html>

What's Next?

After you upgrade your WebLogic Server 7.0 installation, you may need to upgrade your user domains. If you created user domains using the Configuration Wizard and templates available with WebLogic Platform 7.0 GA software or a service pack earlier than the current service pack, you may need to update the domains for use with the current service pack. Upgrade procedures are provided in “Migrating User-Created Domains” in the *BEA WebLogic Platform Release Notes* at <http://e-docs.bea.com/platform/docs70/relnotes/index.html>.

Performing Post-Installation Tasks

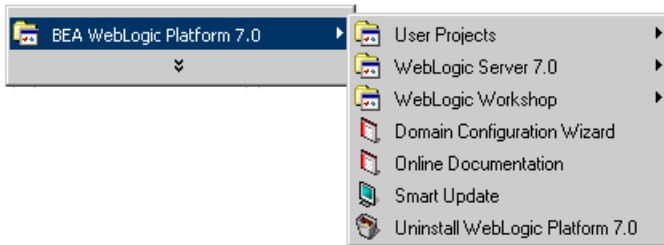
The following sections describe the tasks you perform after installing WebLogic Server:

- [“Understanding the WebLogic Server Windows Shortcuts” on page 7-1](#)
- [“Understanding the WebLogic Server Directory Structure” on page 7-4](#)
- [“Starting the Examples, Pet Store, and Workshop Examples Servers” on page 7-5](#)
- [“Starting the Administration Console” on page 7-9](#)
- [“Determining the SDK Version You Are Using” on page 7-10](#)

Understanding the WebLogic Server Windows Shortcuts

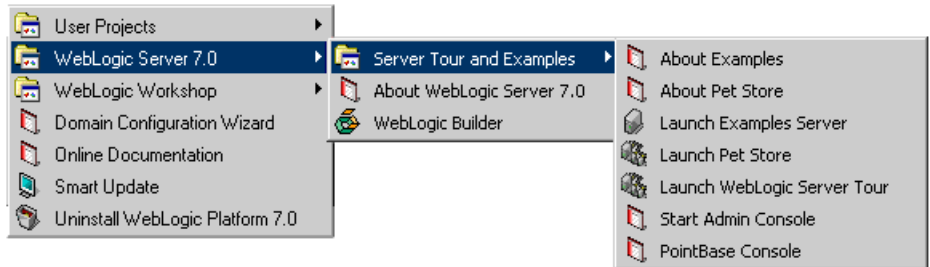
When you install WebLogic Server on a Windows system, the installation program automatically creates shortcut files on the Start Menu. Options on the Start Menu vary according to options you select during installation. The WebLogic Platform 7.0 folder (Start→Programs→WebLogic Platform 7.0) contains the shortcut files shown in [Figure 7-1](#).

Figure 7-1 BEA WebLogic Platform Start Menu



- *User Projects*—Contains a folder for each domain that you create using the Configuration Wizard and for which you choose to create a Start Menu option. You use the shortcuts in these folders to start servers in each domain.
- *WebLogic Server 7.0*—Contains shortcuts to launch the Examples and Pet Store servers, introductory documentation about WebLogic Server, and so forth. See [Figure 7-2](#).
- *WebLogic Workshop*—Contains shortcuts to launch the WebLogic Workshop and examples. For details about using WebLogic Workshop, see the [WebLogic Workshop documentation](http://e-docs.beasys.com/workshop/docs70/help/index.html) at <http://e-docs.beasys.com/workshop/docs70/help/index.html>.
- *Domain Configuration Wizard*—Launches the Configuration Wizard to create and configure WebLogic domains and servers. See “[Creating New Domains Using the Configuration Wizard](#)” in *Creating and Configuring WebLogic Server Domains* at http://e-docs.bea.com/wls/docs70/admin_domain/configwiz.html.
- *Online Documentation*—Opens the WebLogic Platform online documentation. WebLogic Server is a component in WebLogic Platform.
- *Smart Update*—Runs Smart Update to check for and install available software updates for installed BEA products. See “[WebLogic Server Service Packs and Rolling Patches](#)” on page 6-1.
- *Uninstall WebLogic Platform 7.0*—Launches the uninstall program to uninstall individual WebLogic Platform components or all of WebLogic Platform.

[Figure 7-2](#) shows the options on the WebLogic Server 7.0 menu (Start→Programs→WebLogic Platform 7.0→WebLogic Server 7.0).

Figure 7-2 WebLogic Server 7.0 Start Menu

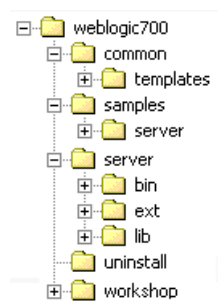
- *Server Tour and Examples*—Contains the following shortcuts:
 - *About Examples*—Opens the *WebLogic Server Examples Guide* in a Web browser.
 - *About Pet Store*—Opens instructions in a Web browser for running the Pet Store sample application.
 - *Launch Examples Server*—Starts the Examples server so you can run example applications installed with WebLogic Server.
 - *Launch Pet Store*—Starts the Pet Store server to run the Pet Store sample application.
 - *Launch WebLogic Server Tour*—Starts the WebLogic Server Tour, along with the Pet Store server. The WebLogic Server Tour can help you quickly learn about the features in WebLogic Server.
 - *Start Admin Console*—Opens the WebLogic Server Administration Console for the Examples or Pet Store server in a Web browser.
 - *PointBase Console*—Opens the PointBase Administration Console. The Examples and Pet Store domains use an evaluation copy of the PointBase relational database management system.
- *About WebLogic Server 7.0*—Opens *About WebLogic Server* in a Web Browser. The document contains important information about WebLogic Server.
- *WebLogic Builder*—Starts WebLogic Builder, which is a graphical tool for assembling a J2EE application module, creating and editing its deployment descriptors, and deploying it to a WebLogic server. For more information about WebLogic Builder, see “[WebLogic Builder](http://e-docs.bea.com/wls/docs70/wlbuilder/index.html)” at <http://e-docs.bea.com/wls/docs70/wlbuilder/index.html>.

Understanding the WebLogic Server Directory Structure

WebLogic Server 7.0 has a new directory structure for WebLogic Server and a new location for your applications that run on WebLogic Server. This new directory structure provides added flexibility and promotes best practices for application development.

Files and Directories Installed

During the WebLogic Server installation, you are asked to select or create a BEA Home directory and a product installation directory. For information about the BEA Home directory, see [“BEA Home Directory” on page 1-13](#). For a typical installation, the installer program creates the following directory structure for WebLogic Platform software, which may or may not be in the BEA Home directory:



The contents of each directory are described in the following table.

This directory . . .	Contains . . .
weblogic700	Folders for files shared by all WebLogic Platform components, as well as individual folders for each installed WebLogic Platform component.
common	Files shared by WebLogic Platform components, including template <code>jar</code> files used by the Configuration Wizard when creating domains. The Configuration Wizard reads the contents of this folder and displays template options based on the <code>jar</code> files in the directory. See “Configuring Domains, Servers, and Clusters with the Configuration Wizard” on page 2-10 for more information about using the Configuration Wizard.

This directory . . .	Contains . . .
<code>samples</code>	Sample code, resources, and preconfigured domains designed to help you learn how to develop your own applications using WebLogic Platform. Samples are organized by component installed on the system. Each WebLogic Platform component has its own folder within the <code>samples</code> folder. The <code>server</code> folder in the <code>samples</code> folder contains the <code>examples</code> and <code>petstore</code> domains, source code for the examples and petstore sample applications, and PointBase evaluation software.
<code>server</code>	WebLogic Server program files.
<code>uninstall</code>	Code required to uninstall the WebLogic Server software.
<code>workshop</code>	WebLogic Workshop application and documentation files and files to support the Workshop sample domain.

New Structure for Domain Directories

In previous releases of WebLogic Server, domains were created within the directory structure of the Weblogic Server installation, including application code for each domain. With WebLogic Server 7.0, you can and are encouraged to create domains in their own directory structure anywhere you choose. Scripts and applications in the domain must have access to the Weblogic Server installation and the JDK.

This new directory structure provides for greater flexibility when storing application code and configuring server systems. It also promotes best practices for application development. *That is*, application code should not be stored with the application server code.

For more information about domains and domain directories, see [Overview of WebLogic Server Domains](#) in *Creating and Configuring WebLogic Server Domains* at

http://e-docs.bea.com/wls/docs70/admin_domain/overview.html.

Starting the Examples, Pet Store, and Workshop Examples Servers

The examples optionally installed with WebLogic Server demonstrate a variety of features using WebLogic Server and WebLogic Workshop. The source files and Javadoc files for the WebLogic Server examples are installed in `SAMPLES_HOME\server\src\examples` and `SAMPLES_HOME\server\src\petstore`. Additional information for configuring and executing the

examples server and the example applications is provided in the `SAMPLES_HOME\server\src\examples\examples.html` file. The WebLogic Workshop Samples project source files are installed in `SAMPLES_HOME\workshop\applications\samples`. For information about the Samples project in WebLogic Workshop, see the [WebLogic Workshop documentation](#) at

<http://e-docs.bea.com/workshop/docs70/help/guide/tutorial/tutFirstWebServiceIntro.html>.

The following sections provide instructions for starting the Examples, Pet Store, and cgServer (for the WebLogic Workshop Samples project) servers on a Windows or UNIX system.

- [“Starting the Examples Server on a Windows System” on page 7-6](#)
- [“Starting the Examples Server on a UNIX System” on page 7-7](#)
- [“Starting the Pet Store Server and Application on a Windows System” on page 7-7](#)
- [“Starting the Pet Store Server and Application on a UNIX System” on page 7-8](#)
- [“Starting the WebLogic Workshop Examples Server” on page 7-9](#)

Note: You cannot start the Examples, Pet Store, and Workshop Examples servers at the same time (as installed) because all of them are configured to use port 7001 as the non-secure listening port and 7002 as the secure listening port. To run them concurrently, you must reconfigure the listening ports as described in [Setting the Listen Port](#) in the *Administration Console Online Help* at

http://e-docs.bea.com/wls/docs70/ConsoleHelp/servers.html#server_listen_port.

Starting the Examples Server on a Windows System

To start the Examples server on a Windows system:

- Choose Start→Programs→WebLogic Platform 7.0→WebLogic Server 7.0→Server Tour and Examples→Launch Examples Server.

After the server starts, a Web browser automatically opens. Click the Go to Administration Console text link or enter the following URL in a browser window to start the Administration Console:

`http://hostname:7001/console.`

For complete information about starting and stopping WebLogic Server, see [“Starting and Stopping WebLogic Servers”](#) in the *Administration Guide* at

<http://e-docs.bea.com/wls/docs70/adminguide/startstop.html>.

Note: You cannot start the Examples, Pet Store, and Workshop Examples servers at the same time (as installed) because all of them are configured to use port 7001 as the non-secure listening port and 7002 as the secure listening port. To run them concurrently, you must reconfigure the listening ports as described in [Setting the Listen Port](#) in the *Administration Console Online Help* at

http://e-docs.bea.com/wls/docs70/ConsoleHelp/servers.html#server_listen_port.

Starting the Examples Server on a UNIX System

To start the examples server on a UNIX system, follow these steps:

1. In a command shell, go to the following directory:

```
SAMPLES_HOME/server/config/examples
```

where *SAMPLES_HOME* represents the location of all examples for the WebLogic Platform—for example, *bea/weblogic700/samples*.

2. Enter the following command:

```
startExamplesServer.sh
```

The *startExamplesServer.sh* script sets up the proper *CLASSPATH* variable for the Examples server and loads the configuration in the

SAMPLES_HOME/server/config/examples/config.xml file.

For complete information about starting and stopping servers, see [“Starting and Stopping WebLogic Servers”](#) in the *Administration Guide* at

<http://e-docs.bea.com/wls/docs70/adminguide/startstop.html>.

Note: You cannot start the Examples, Pet Store, and Workshop Examples servers at the same time (as installed) because all of them are configured to use port 7001 as the non-secure listening port and 7002 as the secure listening port. To run them concurrently, you must reconfigure the listening ports as described in [Setting the Listen Port](#) in the *Administration Console Online Help* at

http://e-docs.bea.com/wls/docs70/ConsoleHelp/servers.html#server_listen_port.

Starting the Pet Store Server and Application on a Windows System

The Pet Store server runs the Pet Store application, which is provided in the WebLogic Server Pet Store Demo to demonstrate the capabilities of the J2EE platform and WebLogic Server. After the

server boots, your browser should automatically launch and point to the WebLogic Server Petstore Demo running on the server. Additional information for configuring and executing the Pet Store server and the Pet Store application is provided in the

`WL_HOME\samples\server\src\petstore\petstore.html` file.

To start the Pet Store server on a Windows system:

- Choose Start→Programs→WebLogic Platform 7.0→WebLogic Server 7.0→Server Tour and Examples→Launch Pet Store.

For complete information about starting and stopping WebLogic Server, see [“Starting and Stopping WebLogic Servers”](#) in the *Administration Guide* at

<http://e-docs.bea.com/wls/docs70/adminguide/startstop.html>.

Note: You cannot start the Examples, Pet Store, and Workshop Examples servers at the same time (as installed) because all of them are configured to use port 7001 as the non-secure listening port and 7002 as the secure listening port. To run them concurrently, you must reconfigure the listening ports as described in [Setting the Listen Port](#) in the *Administration Console Online Help* at

http://e-docs.bea.com/wls/docs70/ConsoleHelp/servers.html#server_listen_port.

Starting the Pet Store Server and Application on a UNIX System

The Pet Store server runs the Pet Store application, which is provided in the WebLogic Server Pet Store Demo to demonstrate the capabilities of the J2EE platform and WebLogic Server. After the server boots, your browser should automatically launch and point to the WebLogic Server Pet Store Demo running on the server. Additional information for configuring and executing the Pet Store server and the Pet Store application is provided in the

`SAMPLES_HOME/server/src/petStore/petstore.html` file.

To start the Pet Store server and application on a UNIX system, follow these steps:

1. Go to the following directory:

`SAMPLES_HOME/server/src/petStore`

where `SAMPLES_HOME` represents the location of all examples for the WebLogic Platform—for example, `bea/weblogic700/samples`.

2. Enter the following command:

```
startPetStore.sh
```

The `startPetStore.sh` script sets up the proper `CLASSPATH` variable for the Pet Store server and loads the configuration in the `SAMPLES_HOME/server/config/petstore/config.xml`.

For complete information about starting and stopping servers, see “Starting and Stopping WebLogic Servers” in the *Administration Guide* at

<http://e-docs.bea.com/wls/docs70/adminguide/startstop.html>.

Note: You cannot start the Examples, Pet Store, and Workshop Examples servers at the same time (as installed) because all of them are configured to use port 7001 as the non-secure listening port and 7002 as the secure listening port. To run them concurrently, you must reconfigure the listening ports as described in [Setting the Listen Port](#) in the *Administration Console Online Help* at

http://e-docs.bea.com/wls/docs70/ConsoleHelp/servers.html#server_listen_port.

Starting the WebLogic Workshop Examples Server

WebLogic Workshop is installed with a project named Samples. The samples project contains many example web services that demonstrate specific features or capabilities of WebLogic Workshop web services. To support the Samples project, WebLogic Workshop is installed with the Workshop domain preconfigured and ready to run.

To start the Workshop Examples server on a Windows system:

- Choose Start→Programs→WebLogic Platform 7.0→WebLogic Workshop→WebLogic Workshop Examples→Start Examples Server.

Note: You cannot start the Examples, Pet Store, and Workshop Examples servers at the same time (as installed) because all of them are configured to use port 7001 as the non-secure listening port and 7002 as the secure listening port. To run them concurrently, you must reconfigure the listening ports as described in [Setting the Listen Port](#) in the *Administration Console Online Help* at

http://e-docs.bea.com/wls/docs70/ConsoleHelp/servers.html#server_listen_port.

Starting the Administration Console

The Administration Console is the Web-based administration tool for WebLogic Server. You must start the server before you can access the Administration Console for a server.

Note: For details about starting the WebLogic Server servers, see “Starting the Examples, Pet Store, and Workshop Examples Servers” on page 7-5. For more information about the

Administration Console, see the [Administration Guide](#) at
`http://e-docs.bea.com/wls/docs70/adminguide/index.html`.

To start the Administration Console, follow these steps:

1. Open the following URL in a supported browser:

`http://hostname:port/console`

where:

- *hostname* is the name or IP address of the machine on which you installed the WebLogic Server software.
 - *port* is the listening port of the server you want to administer. The default non-secure listen port for WebLogic Server is 7001. For the Examples, Pet Store, and Workshop Examples servers, the non-secure listen port is configured as 7001 by default.
2. The Administration Console prompts you for a username and password. Enter a username and password for the server you want to administer. For the Examples and Pet Store servers, `weblogic` (username and password) is the default administrative user. For the Workshop Examples server, `installadministrator` (username and password) is the default administrative user.

Determining the SDK Version You Are Using

You can determine the version of the SDK you are using in either of two ways: on the command line or by examining the contents of the log file created for the server. Instructions for both methods are provided in [Table 7-1, “Determining the SDK Version,”](#) on page 7-11.

Table 7-1 Determining the SDK Version

To determine the SDK . . .	Perform the following steps . . .
From the command line	<ol style="list-style-type: none"> Open a command prompt window and go to the following directory: <code>WL_HOME\server\bin</code> (Windows) <code>WL_HOME/server/bin</code> (UNIX) In these pathnames, <i>WL_HOME</i> represents the directory in which you installed WebLogic Platform. Make sure that your environment is set by entering the following command at the prompt: <code>setWLSenv.cmd</code> (Windows) <code>setWLSenv.sh</code> (UNIX) Enter the following command at the prompt: <code>java -version</code> If you are using WebLogic JRockit, BEA WebLogic JRockit(R) Virtual Machine is displayed in the output.
Using the server log file	<ol style="list-style-type: none"> In a text editor, open the server log file for your domain. The location of the server log file may vary. For some domains, the log file is called <code>weblogic.log</code> and is located in the <code>domain_name\logs</code> directory, where <i>domain_name</i> is one of the following: the name of the domain you provided when you created the domain using the Configuration Wizard, or, the name of a sample domain. For example, <code>C:\bea\user_projects\mydomain\logs\weblogic.log</code>. For details about server log files, see “Using Log Messages to Manage WebLogic Server” in the BEA WebLogic Server Administration Guide at http://e-docs.bea.com/wls/docs70/adminguide/logging.html. <p>Note: The server log file is created the first time the server is started.</p> <ol style="list-style-type: none"> Search the log file for the following values: <code>java.vm.version</code> <code>java.vm.vendor</code> These entries in the log file provide the build version of the JVM and the JVM vendor (for example Sun Microsystems Inc. or BEA Systems, Inc.)

Performing Post-Installation Tasks

Uninstalling WebLogic Server

The following sections provide platform-specific procedures for uninstalling WebLogic Server:

- [“About the Uninstallation Program” on page 8-1](#)
- [“Uninstalling Service Packs and Rolling Patches with the Uninstallation Program” on page 8-7](#)
- [“Uninstalling a Service Pack or Rolling Patch with Smart Update” on page 8-9](#)
- [“Reinstalling WebLogic Server” on page 8-10](#)

About the Uninstallation Program

On both Windows and UNIX systems, you can uninstall WebLogic Server using graphical mode, console mode, or silent mode. To run the graphical mode uninstallation program, your console must support a Java-based GUI. If the uninstallation program determines that your system cannot support a Java-based GUI, the uninstallation program automatically starts in console mode.

You can uninstall WebLogic Server examples only, or the entire WebLogic Server installation. Uninstalling WebLogic Server does not remove the BEA Home directory associated with the installation, or the SDK. If you choose to uninstall the entire WebLogic Server installation, the uninstallation program also removes the WebLogic Server product directory associated with the installation *unless* one of the following is true:

- The product directory contains customer-created configuration or application files—*the uninstallation program does not delete customer-created configuration or 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 uninstall was invoked from within the product directory structure—specifically, within the `uninstaller` directory.

If you have installed a service pack or rolling patch, you can also use the uninstallation program to revert to a prior service pack. See [“Uninstalling WebLogic Server in Graphical Mode” on page 8-2](#).

Note: If you installed WebLogic Server with additional WebLogic Platform components, refer to the [WebLogic Platform Installation Guide](#) at <http://e-docs.bea.com/platform/docs70/install/uninstal.html> for information about uninstalling WebLogic Platform components.

Uninstalling WebLogic Server in Graphical Mode

Use the following procedure to uninstall WebLogic Server or WebLogic Server examples using the graphical interface:

1. Shut down any servers that are running. If you configured any of the servers as a Windows service, you should stop the service(s) before uninstalling the software.
2. Start the uninstallation program as described in the [Table 8-1](#):

Table 8-1 Starting the Uninstallation Program in Graphical Mode

To start the uninstallation program on this platform . . .	Perform the following steps . . .
Windows	<ul style="list-style-type: none"> From the Windows Start menu, choose Start→Programs→BEA WebLogic Platform 7.0→Uninstall WebLogic Platform 7.0. <p>The WebLogic Platform Uninstaller Welcome window is displayed. Proceed to step 3 following this table.</p>
UNIX	<ol style="list-style-type: none"> Open a command shell and go to the following directory: <i>WL_HOME/uninstall</i> where <i>WL_HOME</i> represents the directory in which you installed WebLogic Server. Enter <code>uninstall.sh</code> at the prompt. <p>The WebLogic Platform Uninstaller Welcome window is displayed.</p> <p>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. Refer to the “Uninstalling WebLogic Server in Console Mode” on page 8-4 for instructions.</p>

- Click Next to start the uninstall program.

One of the following windows is displayed:

- The Choose Components window—go to step 4.
- The Select Uninstall Type window—If you have installed a service pack or rolling patch, you can roll back your system installation to the previous service pack or you can completely uninstall WebLogic Server. To uninstall WebLogic Server, select Uninstall WebLogic Server and continue to the next step. If you want to uninstall a service pack or rolling patch, see [“Uninstalling a WebLogic Server Service Pack or Rolling Patch in Graphical Mode” on page 8-8](#).

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. Click Done in the Uninstalling WebLogic Platform 7.0 window to exit the uninstallation program.

Uninstalling WebLogic Server in Console Mode

Use the following procedure to uninstall WebLogic Server or WebLogic Server examples using the command line interface:

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 the [Table 8-2](#).

Table 8-2 Starting the Uninstallation Program in Console Mode

To start the uninstallation program on this platform . . .	Perform the following steps . . .
Windows	<ol style="list-style-type: none">1. Open an MS-DOS command prompt window and go to the following directory: <code>WL_HOME\uninstall</code> where <code>WL_HOME</code> represents the directory in which you installed WebLogic Server, typically <code>C:\bea\weblogic700</code>.2. Enter the following command at the prompt: <code>uninstall -mode=console</code> The Welcome text is displayed.
UNIX	<ol style="list-style-type: none">1. Open a command shell and go to the following directory: <code>WL_HOME/uninstall</code> where <code>WL_HOME</code> represents the directory in which you installed WebLogic Server.2. At the prompt, enter the following command: <code>sh uninstall.sh -mode=console</code> The Welcome text is displayed.

3. Press Enter or type `next` to proceed to the next panel of the uninstallation program.

One of the following panels is displayed:

- The Choose Components panel—go to step 4.
- The Uninstall Options panel—If you have installed a service pack or rolling patch, you can uninstall WebLogic Server completely or you can roll back your system installation to the previous service pack. To uninstall WebLogic Server, type 1 at the prompt and press Enter, then continue to the next step. If you want to uninstall a service pack or rolling patch, see [“Uninstalling a WebLogic Server Service Pack or Rolling Patch in Console Mode” on page 8-9](#)

4. Select the components you want to uninstall. The available components are displayed as follows:

Choose Components:

```
Release 7.0
+----WebLogic Server  [0] v
      +----Server      [0.0] v
      +----Workshop    [0.1] v
      +----Server Examples [0.2] v
```

Enter number exactly as it appears in brackets to toggle selection OR [Exit][Previous][Next]> next

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

To leave a component installed on your system, type the numeric code for the option on the command line exactly as it appears within the brackets. For example, type 0.0 to deselect the Server and keep it installed on your system.

Dependency checking in the uninstallation program verifies that if you select a component to uninstall, all other components that are dependent on the selected component are also selected for uninstallation. For example, if you choose to uninstall the Server component, the uninstaller also uninstalls the Workshop and Server Examples components.

5. Press Enter or type next.

You are prompted to confirm your selections, as shown in the following text:

Choose Components:

```
->1| Yes, uninstall these component selections
    2| No, return to component selection
```

Enter index number to select OR [Exit][Previous][Next]>

6. Press Enter or type next to proceed with the uninstallation process.

7. When the uninstallation process is complete, press `Enter` or type `done` to complete the uninstallation and exit the uninstallation program.

Uninstalling WebLogic Server in Silent Mode

When you uninstall WebLogic Server in silent mode, the full installation of WebLogic Server is uninstalled. You cannot use silent-mode uninstallation to roll back to a previous service pack or to uninstall individual WebLogic Platform components.

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 GUI and console modes, including:

- The BEA Home directory, including the `logs` and `utils` subdirectories
- The Java 2 SDK, if it was installed with WebLogic Server
- Domain directories, including those in `user_projects`
- Any other file created or modified since WebLogic Server was installed

You can manually delete these files.

Although you can use silent-mode uninstallation to manually uninstall WebLogic Server, silent-mode uninstall is intended for use in scripts. You can adapt the steps in [Table 8-3](#) for use in scripts.

Use the following procedure to uninstall WebLogic Server or WebLogic Server examples using the command line interface:

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 the [Table 8-3](#).

Table 8-3 Starting the Uninstallation Program in Silent Mode

To start the uninstallation program on this platform . . .	Perform the following steps . . .
Windows	<ol style="list-style-type: none"> 1. Open an MS-DOS command prompt window and go to the following directory: <code>WL_HOME\uninstall</code> where <i>WL_HOME</i> represents the directory in which you installed WebLogic Server, typically <code>C:\bea\weblogic700</code>. 2. Enter the following command at the prompt: <code>uninstall -mode=silent</code>
UNIX	<ol style="list-style-type: none"> 1. Open a command shell and go to the following directory: <code>WL_HOME/uninstall</code> where <i>WL_HOME</i> represents the directory in which you installed WebLogic Server. 2. At the prompt, enter the following command: <code>sh uninstall.sh -mode=silent</code>

Notes: 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.

To create a verbose log file during silent uninstallation, include the `-log=full_path_to_log_file` option in the command line. For example:

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

The path must be to a file. All folders in the path must exist before you execute the command or the installation program will not create the log file.

Uninstalling Service Packs and Rolling Patches with the Uninstallation Program

If you have installed a service pack or rolling patch, you can revert your system installation to an earlier version of the release as follows:

- You can revert to the prior service pack installation on your system. For example, if you installed WebLogic Server 7.0, then installed Service Pack 1 (SP1), you can revert to WebLogic Server 7.0. If you have WebLogic Server 7.0 SP1 installed on your system and you upgrade to WebLogic Server 7.0 SP2 (when available), you can revert only to WebLogic Server 7.0 SP1, you cannot revert to WebLogic Server 7.0.
- You can revert rolling patch upgrades to the prior service pack on which the rolling patch is based. (Rolling patches are cumulative, each rolling patch replaces all earlier rolling patches on a particular service pack base.) For example, if you installed WebLogic Server 7.0 SP1, then installed rolling patches 1 and 2 (RP1 and RP2), you can revert to WebLogic Server 7.0 SP1. You cannot revert to an earlier rolling patch.

For instructions, see [“Uninstalling a WebLogic Server Service Pack or Rolling Patch in Graphical Mode” on page 8-8](#) or [“Uninstalling a WebLogic Server Service Pack or Rolling Patch in Console Mode” on page 8-9](#).

Note: If you install additional WebLogic Platform components after installing a service pack or rolling patch, you cannot roll back to any previous versions of the product.

To revert to a previously installed version of WebLogic Server, you can use the uninstallation program or Smart Update. See [“Uninstalling a Service Pack or Rolling Patch with Smart Update” on page 8-9](#) for instructions to use Smart Update to roll back to a previous installation.

Uninstalling a WebLogic Server Service Pack or Rolling Patch in Graphical Mode

Use the following procedure to uninstall a WebLogic Server service pack or rolling patch. You can also use Smart Update to uninstall a service pack or rolling patch. See [“Uninstalling a Service Pack or Rolling Patch with Smart Update” on page 8-9](#).

1. Shut down any servers that are running. If you configured any server as a Windows service, stop the service(s) before uninstalling the software.
2. Start the uninstallation program as described in the [Table 8-1, “Starting the Uninstallation Program in Graphical Mode,” on page 8-3](#).

The WebLogic Server Uninstaller Welcome window is displayed.

3. Click Next to start the uninstall program.

The Select Uninstall Type window is displayed.

4. Select the service pack to which you want to roll back your system installation and click Next.

A status window displays the progress of the uninstallation. A message is displayed when the rollback is complete.

5. Click Done on the status window.

Uninstalling a WebLogic Server Service Pack or Rolling Patch in Console Mode

Use the following procedure to uninstall a WebLogic Server service pack or rolling patch. You can also use Smart Update to uninstall a service pack or rolling patch. See [“Installing Service Packs and Rolling Patches Using Smart Update” on page 6-4](#).

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 the [Table 8-2, “Starting the Uninstallation Program in Console Mode,” on page 8-4](#).

The Welcome text is displayed.

3. Press Enter or type `next` to proceed to the next panel of the uninstallation program.

The Uninstall Options panel is displayed:

4. At the prompt, type the number of the option for the service pack to which you want to roll back your system installation and press Enter.

Text messages indicate the progress of the uninstallation.

Uninstalling a Service Pack or Rolling Patch with Smart Update

You can use Smart Update to revert your system installation to an earlier version of the release as follows:

- You can revert to the prior service pack installation on your system. For example, if you installed WebLogic Server 7.0, then installed Service Pack 1 (SP1), you can revert to WebLogic Server 7.0. If you have WebLogic Server 7.0 SP1 installed on your system and you upgrade to WebLogic Server 7.0 SP2, you can revert only to WebLogic Server 7.0 SP1, you cannot revert to WebLogic Server 7.0.
- You can revert rolling patch upgrades to the prior service pack on which the rolling patch is based. (Rolling patches are cumulative, each rolling patch replaces all earlier rolling patches on a particular service pack base.) For example, if you installed WebLogic Server 7.0 SP1, then

installed rolling patches 1 and 2 (RP1 and RP2), you can revert to WebLogic Server 7.0 SP1. You cannot revert to an earlier rolling patch.

Note: If you install additional WebLogic Platform components after installing a service pack or rolling patch, you cannot roll back to any previous versions of the product.

You can also uninstall a service pack or rolling patch using the standard uninstallation process. For more information, see [“Uninstalling WebLogic Server in Graphical Mode” on page 8-2](#).

To uninstall a service pack or rolling patch, follow these instructions:

1. Start Smart Update as described in [Table 6-1, “Starting Smart Update,” on page 6-5](#).

2. In the left pane, select the release for the product you want to roll back.

Service packs and rolling patches that you can uninstall (or roll back) are displayed in the Downgrade Options section of the window.

3. In the Downgrade Options pane, select the service pack or rolling patch to uninstall and click OK.

The BEA Uninstaller Program opens.

4. Click Next to proceed.

A status window displays the progress of the uninstallation. A message is displayed when the rollback or uninstallation is complete.

5. Click Done on the status window.

The Smart Update window is displayed.

Reinstalling WebLogic Server

You cannot reinstall the same major version of WebLogic Server or any of its components over a previous WebLogic Server installation of the same components—in the same BEA Home directory or in the same file location. You can, however, add components to an existing installation. For example, you can install WebLogic Server during one installation, and Server Examples or additional WebLogic Platform components during separate installations.

To reinstall the same version of one of the product components or the entire WebLogic Server distribution in the same location, you must first uninstall the previous installation.

If you attempt to install a copy of WebLogic Server 7.0 in the same BEA Home as a previous installation of WebLogic Server 7.0, the installation program displays the following message:

A complete installation of WebLogic Platform 7.0 exists in this BEA Home. Please select another BEA Home or uninstall the product.

Type or click OK to return to the Choose BEA Home directory prompt.

Choose one of the following options:

- To continue installing the software using a different BEA Home directory, select an existing BEA Home directory that does not contain a WebLogic Server installation or create a new BEA Home directory.
- Exit the installation program. If you want to reinstall WebLogic Server 7.0 in the same BEA Home, you must uninstall the previous installation. You can invoke the uninstall program as described in one of the following sections:
 - [“Uninstalling WebLogic Server in Graphical Mode” on page 8-2](#)
 - [“Uninstalling WebLogic Server in Console Mode” on page 8-4](#)

Then reinstall the software as described in one of the following sections:

- [Chapter 2, “Installing WebLogic Server Using Graphical-Mode Installation”](#)
- [Chapter 3, “Installing WebLogic Server Using Console-Mode Installation”](#)
- [Chapter 4, “Installing WebLogic Server Using Silent-Mode Installation”](#)

Uninstalling WebLogic Server

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