

## **Oracle® Fusion Middleware**

Installing and Configuring Oracle WebLogic Server and Coherence

12c (12.2.1.1)

**E73086-02**

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Documentation for installers and system administrators that describes how to install and configure Oracle WebLogic Server and Coherence.

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# Preface

This document describes how to install and configure Oracle WebLogic Server and Coherence.

[Audience](#)

[Documentation Accessibility](#)

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## Audience

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

## Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

### Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

## Related Documents

For more information, see the following documents in the 12c (12.2.1.1) documentation library:

- *Upgrading Oracle WebLogic Server*

If you are upgrading your Oracle WebLogic Server installation from an earlier version (for example from a 10.x release in 11g to a 12c release), this document explains how to upgrade the entire WebLogic Server environment, including applications, the WebLogic domains in which they are deployed, and any application data associated with the domain. This may include external resources, such as database servers, firewalls, load balancers, and LDAP servers.

- *Installing and Configuring the Oracle Fusion Middleware Infrastructure*

Oracle WebLogic Server is also available as part of the Oracle Fusion Middleware Infrastructure distribution. Refer to this document if you want to install Oracle WebLogic Server with Infrastructure capabilities.

## Conventions

The following text conventions are used in this document:

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

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# Planning the Oracle WebLogic Server Installation

This section prepares you to install Oracle WebLogic Server and Coherence. Review this section thoroughly to ensure that you do not encounter any problems during or after installation and domain configuration.

## [Using this Document](#)

There are certain scenarios that you want to use this guide for, and other sources of information.

## [About the WebLogic Server and Coherence Standard Installation Topology](#)

The standard installation topology has a standard WebLogic Server domain.

## [Running the Installer in Silent Mode](#)

You can install using the `-silent` flag on the command line when you start the installer.

## [Roadmap for Installing and Configuring the Installation Topology](#)

This document has all the procedures you need to install and configure WebLogic Server. Within the procedures, this document refers to additional information you can use if you want to create a modified version of this topology.

## [Roadmap for Installing and Configuring the WebLogic Server MT Topology](#)

Follow this roadmap to install and configure the WebLogic Server MT distribution.

## [Roadmap for Verifying Your System Environment](#)

This topic has important information that you must read and understand before you begin installation and configuration steps. It identifies important tasks and checks that verify your environment is properly prepared to install and configure Oracle Fusion Middleware WebLogic Server and Coherence.

## [Obtaining the Oracle WebLogic Server and Coherence Distribution](#)

You download the software from the Oracle Technology Network (OTN).

## [Obtaining the Oracle WebLogic Server MT Distribution](#)

You download the distribution from the Oracle Technology Network (OTN)

## 1.1 Using this Document

There are certain scenarios that you want to use this guide for, and other sources of information.

This section contains the following topics:

[Using the Standard Installation Topology as a Starting Point](#)

This guide helps you create the standard installation topology for Oracle WebLogic Server and Coherence. You can extend this topology to make it highly available and secure so that it is suitable for a production system.

[Using this Document in an Upgrade Scenario](#)

If you are installing Oracle WebLogic Server and Coherence as part of an upgrade procedure, follow procedures in this guide to install the software, but do *not* run the Configuration Wizard to create a WebLogic domain.

[Using this Document to Extend a Domain](#)

Procedures in this document describe how to create a new domain; you can use the same procedures to extend an existing domain.

[Using Installation Documents for Development Environments](#)

This guide describes how to use the Oracle WebLogic Server and Coherence distribution to install and configure a runtime, *production* environment for Oracle WebLogic Server.

### 1.1.1 Using the Standard Installation Topology as a Starting Point

This guide helps you create the standard installation topology for Oracle WebLogic Server and Coherence. You can extend this topology to make it highly available and secure so that it is suitable for a production system.

The standard installation topology represents a *sample* topology for this product; it is not the only topology that Oracle supports. See "Understanding the Standard Installation Topology" in *Planning an Installation of Oracle Fusion Middleware*.

### 1.1.2 Using this Document in an Upgrade Scenario

If you are installing Oracle WebLogic Server and Coherence as part of an upgrade procedure, follow procedures in this guide to install the software, but do *not* run the Configuration Wizard to create a WebLogic domain.

After you install the software, go to *Upgrading Oracle WebLogic Server*.

### 1.1.3 Using this Document to Extend a Domain

Procedures in this document describe how to create a new domain; you can use the same procedures to extend an existing domain.

If you do this, be sure to read "Installing Multiple Products in the Same Domain" in *Planning an Installation of Oracle Fusion Middleware* for important information.

If you are creating a new domain but your needs do not match the steps in a procedure, be sure to make your selections accordingly and see the supporting documentation for more details.

### 1.1.4 Using Installation Documents for Development Environments

This guide describes how to use the Oracle WebLogic Server and Coherence distribution to install and configure a runtime, *production* environment for Oracle WebLogic Server.

Oracle also has Oracle WebLogic Server *development-only* and supplemental installers:

- The *quick installer* is a lightweight installer that contains all the necessary artifacts to develop and test Java applications. The quick installer is run directly from the command line. Installations performed with the quick installer can be patched using the standard Oracle patching tool, OPatch.

This version of Oracle WebLogic Server and the quick installer requires JDK 1.8 version. Ensure that you have the proper JDK version installed and ready for use before starting.

The quick installer file name is `fmw_12.2.1.1.0_wls_quick.jar`

- The *supplemental quick installer* is a lightweight installer that contains all the necessary artifacts to develop and test sample Java applications on Oracle WebLogic Server.

The optional supplemental quick installer has components such as the sample applications, and Administration Console additional language help files.

The supplemental quick installer file name is

`fmw_12.2.1.1.0_wls_supplemental_quick.jar`

To set up a development environment, see:

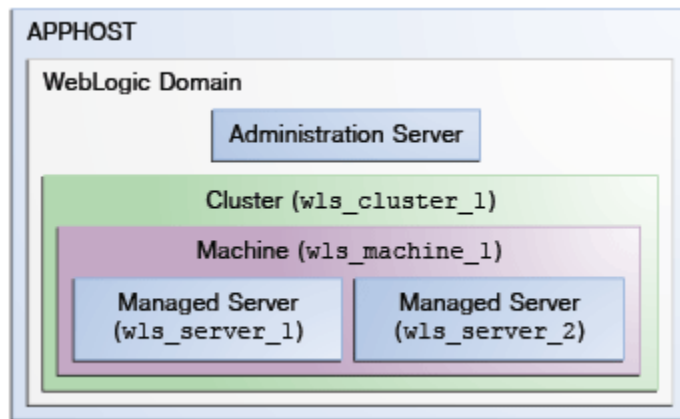
- [Obtaining the Oracle WebLogic Server and Coherence Distribution](#) to find the development installers. Word documents in the development kit include instructions to install and configure the development environment.
- "Overview of WebLogic Server Application Development" in *Developing Applications for Oracle WebLogic Server* for a complete list of what to keep in mind when you set up a development environment for Oracle WebLogic Server.
- "Oracle Fusion Middleware Installing JDeveloper" to install Oracle JDeveloper, an integrated development environment (IDE) for building applications using the latest Java, XML, Web services, and SQL standards.

## 1.2 About the WebLogic Server and Coherence Standard Installation Topology

The standard installation topology has a standard WebLogic Server domain.

The following figure shows the standard installation topology for Oracle WebLogic Server and Coherence:

**Figure 1-1 Oracle WebLogic Server and Coherence Topology**



This topology has a standard WebLogic Server domain that contains two Managed Servers in a cluster and an Administration Server, all configured on one host.

See these topics:

[WebLogic Server and Coherence Standard Installation Topology Elements](#)

The following table describes standard installation topology elements.

[About Using the Standard Installation Topology for WebLogic Server MT](#)

You can use the WebLogic Server standard installation topology as a basic environment for WebLogic Server MT. However, when you create the topology for WebLogic Server MT, note the following differences:

### 1.2.1 WebLogic Server and Coherence Standard Installation Topology Elements

The following table describes standard installation topology elements.

See [Roadmap for Installing and Configuring the Installation Topology](#) for a roadmap that describes steps to create this topology.

**Table 1-1 Oracle WebLogic Server and Coherence Standard Installation Topology Elements**

Element	Description and Links to Additional Documentation
APPHOST	Standard term in Oracle documentation for the machine that hosts the application tier.
WebLogic Domain	Logically related group of Java components. In this case, the Administration Server, Managed Servers, and other related software components. See <i>What is an Oracle WebLogic Server Domain?</i> in <i>Understanding Oracle Fusion Middleware</i> .
Administration Server	Domain central control entity. Maintains domain configuration objects and distributes configuration changes to Managed Servers. See "What is the Administration Server" in <i>Understanding Oracle Fusion Middleware</i> .
Cluster	A collection of multiple WebLogic Server instances running simultaneously and working together. See "Understanding Managed Servers and Managed Server Clusters" in <i>Understanding Oracle Fusion Middleware</i> .

**Table 1-1 (Cont.) Oracle WebLogic Server and Coherence Standard Installation Topology Elements**

Element	Description and Links to Additional Documentation
Machine	Logical representation of the computer that hosts one or more WebLogic Server instances (servers). Machines are also the logical glue between Managed Servers and Node Manager; to start or stop a Managed Server with Node Manager, the Managed Server must be associated with a machine.
Managed Server	Host for your applications, application components, Web services, and their associated resources. See "Understanding Managed Servers and Managed Server Clusters" in <i>Understanding Oracle Fusion Middleware</i> .

## 1.2.2 About Using the Standard Installation Topology for WebLogic Server MT

You can use the WebLogic Server standard installation topology as a basic environment for WebLogic Server MT. However, when you create the topology for WebLogic Server MT, note the following differences:

- For WebLogic MT, you must use the Oracle Fusion Middleware Infrastructure distribution instead of the WebLogic Server and Coherence distribution.
- When you configure a WebLogic MT domain, Oracle recommends that you select the Oracle Enterprise Manager Restricted JRF template instead of the Oracle JRF template.

## 1.3 Running the Installer in Silent Mode

You can install using the `-silent` flag on the command line when you start the installer.

See the following topics in *Installing Software with the Oracle Universal Installer* for details on silent mode and the steps to run it.

- Understanding Silent Installation
- Understanding Response Files
- Running the Oracle Universal Installer in Silent Mode
- Running the Oracle Universal Installer for Silent Deinstallation

## 1.4 Roadmap for Installing and Configuring the Installation Topology

This document has all the procedures you need to install and configure WebLogic Server. Within the procedures, this document refers to additional information you can use if you want to create a modified version of this topology.

The following table shows steps required to install and configure Oracle WebLogic Server.

**Table 1-2 Oracle WebLogic Server and Coherence Installation Procedure**

Task	Description	Documentation
Verify your system environment	Before starting the installation, verify that your system meets minimum system and network requirements.	<a href="#">Roadmap for Verifying Your System Environment</a>
Obtain the appropriate distribution	To create the topology this section describes, obtain the Oracle WebLogic Server and Coherence distribution.	<a href="#">Obtaining the Oracle WebLogic Server and Coherence Distribution.</a>
Determine your installation directories	Verify that the installer can create or access installer directories that it needs to create. Also, verify that the directories exist on systems that meet the minimum requirements.	What are the Key Oracle Fusion Middleware Directories? in <i>Understanding Oracle Fusion Middleware</i> .
Install the software	Run the installation program to install the software.	<a href="#">Installing the Oracle WebLogic Server and Coherence Software</a>
Create a WebLogic domain	Use the Configuration Wizard to create a WebLogic domain.	<a href="#">Creating and Configuring the WebLogic Domain</a>
Perform post-installation tasks	Start to manage components in the domain or continue to modify your environment for high availability.	<a href="#">Next Steps After Configuring the WebLogic Server Domain</a>

## 1.5 Roadmap for Installing and Configuring the WebLogic Server MT Topology

Follow this roadmap to install and configure the WebLogic Server MT distribution.

This document has all the procedures you need to install and configure WebLogic Server. Within the procedures, this document refers to additional information you can use if you want to create a modified version of this topology.

The following table shows steps required to install and configure WebLogic Serve MT.

**Table 1-3 WebLogic Server MT Installation Steps**

Task	Description	Documentation
Verify your system environment	Before starting the installation, verify that your system meets minimum system and network requirements.	<a href="#">Roadmap for Verifying Your System Environment</a>
Obtain the appropriate distribution	To create the topology this section describes, obtain the WebLogic Server MT distribution.	<a href="#">Obtaining the Oracle WebLogic Server MT Distribution.</a>

**Table 1-3 (Cont.) WebLogic Server MT Installation Steps**

Task	Description	Documentation
Determine your installation directories	Verify that the installer can create or access installer directories that it needs to create. Also, verify that the directories exist on systems that meet the minimum requirements.	What are the Key Oracle Fusion Middleware Directories? in <i>Understanding Oracle Fusion Middleware</i> .
Install the software	Run the installation program to install the software.	<a href="#">Installing Oracle WebLogic Server and Coherence for WebLogic Server MT</a>
Create a WebLogic domain	Use the Configuration Wizard to create a WebLogic domain.	<a href="#">Creating a WebLogic Domain for WebLogic Server MT</a>
Perform post-installation tasks	Start to manage components in the domain or continue to modify your environment for high availability.	<a href="#">Next Steps After Configuring the WebLogic Server Domain</a>

## 1.6 Roadmap for Verifying Your System Environment

This topic has important information that you must read and understand before you begin installation and configuration steps. It identifies important tasks and checks that verify your environment is properly prepared to install and configure Oracle Fusion Middleware WebLogic Server and Coherence.

**Table 1-4 Roadmap to Verify Your System Environment**

Task	Description	Documentation
Verify certification and system requirements.	Verify that your operating system is certified and properly configured for WebLogic Server and Coherence installation and configuration.	See "Verifying Certification, System Requirements and Interoperability" in <i>Planning an Installation of Oracle Fusion Middleware</i> .
Identify a proper installation user.	Verify that the installation user has the proper permissions to install and configure the software.	See "Selecting an Installation User" in <i>Planning an Installation of Oracle Fusion Middleware</i> .
Select the installation and configuration directories on your system.	Verify that you can create the necessary directories for installation and configuration, according to the recommended directory structure.	See "Selecting Directories for Installation and Configuration" in <i>Planning an Installation of Oracle Fusion Middleware</i> .
Install a certified JDK.	The installation program for the distribution requires that your system have a certified JDK.	See "Installing a JDK" in <i>Planning an Installation of Oracle Fusion Middleware</i> .

## 1.7 Obtaining the Oracle WebLogic Server and Coherence Distribution

You download the software from the Oracle Technology Network (OTN).

For complete information about how to obtain Oracle Fusion Middleware software, see "Understanding and Obtaining Product Distributions" in *Planning an Installation of Oracle Fusion Middleware*.

To download Oracle WebLogic Server and Coherence software for development or evaluation, go to the following location on OTN:

<http://www.oracle.com/technetwork/middleware/fusion-middleware/downloads/index.html>

To obtain Oracle WebLogic Server and Coherence, go to OTN and follow these steps:

1. Find `fmw_12.2.1.1.0_wls_Disk1_1of1.zip` and download it to your system.
2. Extract the contents of this .zip file onto your system. The extracted file `fmw_12.2.1.1.0_wls.jar` runs the product installer and installs the software onto your system ([Installing the Oracle WebLogic Server and Coherence Software](#)).

[About the Oracle WebLogic Server and Coherence Distribution](#) describes products and feature sets in this distribution.

For more about obtaining Oracle Fusion Middleware products, see *Oracle Fusion Middleware Download, Installation, and Configuration Readme Files* on OTN.

## 1.8 Obtaining the Oracle WebLogic Server MT Distribution

You download the distribution from the Oracle Technology Network (OTN)

For complete information about how to obtain Oracle Fusion Middleware software, see "Understanding and Obtaining Product Distributions" in *Planning an Installation of Oracle Fusion Middleware*.

To download software for development or evaluation, go to the following OTN location :

<http://www.oracle.com/technetwork/middleware/fusion-middleware/downloads/index.html>

To obtain WebLogic Server MT, go to OTN and follow these steps:

1. Find `fmw_12.2.1.1.0_infrastructure_Disk1_1of1.zip` and download it to your system.
2. Extract the .zip file contents onto your system. The extracted file `fmw_12.2.1.1.0_infrastructure.jar` runs the product installer and installs the software onto your system ([Installing the Oracle WebLogic Server and Coherence Software](#)).

[About the Oracle WebLogic Server and Coherence Distribution](#) describes products and feature sets in this distribution.

For more about locating and downloading Oracle Fusion Middleware products, see *Oracle Fusion Middleware Download, Installation, and Configuration Readme Files* on OTN.



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# Installing the Oracle WebLogic Server and Coherence Software

This section describes how to start the Oracle WebLogic Server and Coherence installation program in graphical mode and the sequence of screens during the installation process.

This section includes the following topics:

## [Starting the Installation Program](#)

You launch the installation program from the JDK directory on your system.

## [Navigating the Installation Screens](#)

The installation program shows a series of screens.

## [About the Coherence Installation Type](#)

For the WebLogic Server and Coherence standard installation topology, select the **WebLogic Server** installation type. When you select this installation type and use instructions in this guide, the standard installation topology includes a Coherence cluster that contains storage-enabled Managed Coherence Servers.

## 2.1 Starting the Installation Program

You launch the installation program from the JDK directory on your system.

To start the installation program:

1. Log in to the target system.
2. Verify that a certified JDK already exists on your system; the installer requires a certified JDK. See Oracle Fusion Middleware Systems Requirements and Specifications for more information. To download the JDK, see Understanding JDK Requirements for an Oracle Fusion Middleware Installation.
3. Go to the directory where you downloaded the installation program.
4. Launch the installation program by running `java -jar` from the JDK directory on your system. See the following examples:

On UNIX operating systems:

```
/home/Oracle/jdk/jdk1.8.0_77/bin/java -jar fmw_12.2.1.1.0_wls_generic.jar
```

On Windows operating systems:

```
C:\Program Files\Java\jdk1.8.0_77\bin\java -jar fmw_12.2.1.1.0_wls_generic.jar
```

Be sure to replace JDK location in these examples with the actual JDK location on your system.

When the installation program opens, you are ready to begin the installation. [Navigating the Installation Screens](#) describes each screen.

## 2.2 Navigating the Installation Screens

The installation program shows a series of screens.

The following table describes installation program screens in the order in which they appear.

If you need more help with any installation screen, click the screen name.

**Table 2-1 Oracle WebLogic Server and Coherence Installation Screens**

Screen	Description
Installation Inventory Setup	<p>On UNIX operating systems, this screen opens if this is the first time you are installing any Oracle product on this host. Specify the location where you want to create your central inventory. Make sure that the operating system group name selected on this screen has write permissions to the central inventory location.</p> <p>See "Understanding the Oracle Central Inventory" in <i>Installing Software with the Oracle Universal Installer</i>.</p> <p>This screen does not appear on Windows operating systems.</p>
Auto Updates	<p>If you enable Auto Updates, the installer checks for new versions of this software.</p> <p>Keep the default setting <b>Skip Auto Updates</b> if you do not want your system to check for software updates at this time.</p> <p>Select <b>Select patches from directory</b> to navigate to a local directory if you downloaded patch files.</p> <p>Select <b>Search My Oracle Support for Updates</b> to automatically download software updates if you have a My Oracle Support account. You must enter Oracle Support credentials then click <b>Search</b>. To configure a proxy server for the installer to access My Oracle Support, click <b>Proxy Settings</b>. Click <b>Test Connection</b> to test the connection.</p>
Welcome	<p>This screen introduces you to the product installer.</p>
Installation Location	<p>Use this screen to specify your Oracle home directory location.</p> <p>For more on the directory structure, see "Selecting Directories for Installation and Configuration" in <i>Planning an Installation of Oracle Fusion Middleware</i>.</p>

**Table 2-1 (Cont.) Oracle WebLogic Server and Coherence Installation Screens**

Screen	Description
Installation Type	<p>To create the standard installation topology for WebLogic Server and Coherence, select <b>WebLogic Server</b>.</p> <p><b>NOTE:</b> The topology in this document does not include server examples; Oracle strongly recommends that you do not install the examples into a production environment.</p> <p>See <a href="#">About the Coherence Installation Type</a> for more on the <b>Coherence</b> installation type.</p> <p>See <a href="#">About the Oracle WebLogic Server and Coherence Distribution</a> for more on Oracle WebLogic Server installation types.</p>
Prerequisite Checks	<p>Verifies that your system meets the minimum necessary requirements. If you see a warning or error message, see one of the documents in <a href="#">Roadmap for Verifying Your System Environment</a>.</p>
Specify Security Updates	<p>If you already have an Oracle Support account, use this screen to indicate how you would like to receive security updates.</p> <p>If you do not have one and are sure you want to skip this step, clear the check box and verify your selection in the follow-up dialog box.</p>
Installation Summary	<p>Use this screen to verify the installation options you chose. Optional: To save these options to a response file, click <b>Save Response File</b> and enter the location and file name. You can use response files later for silent installations.</p> <p>For more on silent or command line installation, see <i>Running the Oracle Universal Installer in Silent Mode</i> in <i>Installing Software with the Oracle Universal Installer</i>.</p>
Installation Progress	<p>Shows the installation progress.</p>

**Table 2-1 (Cont.) Oracle WebLogic Server and Coherence Installation Screens**

Screen	Description
Installation Complete	<p>Opens when installation is complete. The next step is launching the Configuration Wizard to create a WebLogic domain. There are two ways to do this:</p> <ul style="list-style-type: none"><li>• Select <b>Automatically Launch the Configuration Wizard</b>. After you click <b>Finish</b>, the Configuration Wizard starts and you configure a domain. To do this, see <a href="#">Navigating Configuration Wizard Screens to Configure the Domain</a>.</li><li>• Do not select <b>Automatically Launch the Configuration Wizard</b> on this screen. After you click <b>Finish</b>, you must manually start the Configuration Wizard to configure a domain. To do this, see <a href="#">Starting the Configuration Wizard</a>.</li></ul> <p>If you chose the <b>Complete with Examples</b> installation type, you see an option to start the Quick Start Configuration Wizard, which you use to create sample domains. See "Quick Start Configuration Wizard" in <i>Creating WebLogic Domains Using the Configuration Wizard</i>.</p>

## 2.3 About the Coherence Installation Type

For the WebLogic Server and Coherence standard installation topology, select the **WebLogic Server** installation type. When you select this installation type and use instructions in this guide, the standard installation topology includes a Coherence cluster that contains storage-enabled Managed Coherence Servers.

The **Coherence Installation** installation type is for users who want to deploy and manage Coherence applications using the WebLogic Management Framework. For more information, see the following:

- "Deploying Coherence Applications" in *Administering Oracle Coherence*.
- "What is the WebLogic Management Framework?" in *Understanding Oracle Fusion Middleware*.

---

# Installing Oracle WebLogic Server and Coherence for WebLogic Server MT

This section describes how to start the installation program in graphical mode and the sequence of screens during the installation process.

This section includes the following topics:

## [Starting WebLogic Server MT Installation](#)

You launch the installation program from the JDK directory on your system.

## [Navigating WebLogic Server MT Installation Screens](#)

The installation program includes a series of screens.

### 3.1 Starting WebLogic Server MT Installation

You launch the installation program from the JDK directory on your system.

To start the installation program, perform the following steps.

1. Log in to the target system.
2. Verify that a certified JDK already exists on your system. The installer requires a certified JDK. See the appropriate certification document for 12c (12.2.1.1) on the *Oracle Fusion Middleware Supported System Configurations* page.
3. Go to the directory where you downloaded the installation program.
4. Launch the installation program by running `java -jar` from the JDK directory on your system. See the following examples:

On UNIX operating systems:

```
/home/Oracle/jdk/jdk1.8.0_77/bin/java -jar wls_jrf_generic.jar
```

On Windows operating systems:

```
C:\Program Files\Java\jdk1.8.0_77\bin\java -jar wls_jrf_generic.jar
```

Be sure to replace JDK location in these examples with the actual JDK location on your system.

When the installation program opens, you are ready to begin the installation.

[Navigating the Installation Screens](#) describes each screen.

### 3.2 Navigating WebLogic Server MT Installation Screens

The installation program includes a series of screens.

The following table describes installation program screens in the order in which they appear.

If you need more help with any installation screen, click the screen name.

**Table 3-1 Oracle WebLogic Server MT Installation Screens**

Screen	Description
Installation Inventory Setup	<p>On UNIX operating systems, this screen opens if this is the first time you are installing any Oracle product on this host. Specify the location where you want to create your central inventory. Make sure that the operating system group name selected on this screen has write permissions to the central inventory location.</p> <p>See "Understanding the Oracle Central Inventory" in <i>Installing Software with the Oracle Universal Installer</i>.</p> <p>This screen does not appear on Windows operating systems.</p>
Auto Updates	<p>If you enable Auto Updates, your system periodically checks for new versions of this software. If your system finds a new version, the software prompts you for your permission to upgrade your installation.</p> <p>Keep the default setting <b>Skip Auto Updates</b> if you do not want your system to check for software updates at this time.</p> <p>Select <b>Select patches from directory</b> to navigate to a local directory if you downloaded patch files.</p> <p>Select <b>Search My Oracle Support for Updates</b> to automatically download software updates if you have a My Oracle Support account. You must enter Oracle Support credentials then click <b>Search</b>. To configure a proxy server for the installer to access My Oracle Support, click <b>Proxy Settings</b> . Click <b>Test Connection</b> to test the connection.</p>
Welcome	<p>This screen introduces you to the product installer.</p>
Installation Location	<p>Use this screen to specify your Oracle home directory location.</p> <p>For more on the directory structure, see "Selecting Directories for Installation and Configuration" in <i>Planning an Installation of Oracle Fusion Middleware</i>.</p>

**Table 3-1 (Cont.) Oracle WebLogic Server MT Installation Screens**

Screen	Description
Installation Type	<p>To create the standard installation topology for WebLogic Server and Coherence, select <b>WebLogic Server</b>.</p> <p><b>NOTE:</b> The topology in this document does not include server examples; Oracle strongly recommends that you do not install the examples into a production environment.</p> <p>See <a href="#">About the Coherence Installation Type</a> for more on the <b>Coherence</b> installation type.</p> <p>See <a href="#">About the Oracle WebLogic Server and Coherence Distribution</a> for more on Oracle WebLogic Server installation types.</p>
Prerequisite Checks	<p>Verifies that your system meets the minimum necessary requirements. If you see a warning or error message, see one of the documents in <a href="#">Roadmap for Verifying Your System Environment</a>.</p>
Specify Security Updates	<p>If you already have an Oracle Support account, use this screen to indicate how you would like to receive security updates.</p> <p>If you do not have one and are sure you want to skip this step, clear the check box and verify your selection in the follow-up dialog box.</p>
Installation Summary	<p>Use this screen to verify the installation options you chose. Optional: To save these options to a response file, click <b>Save Response File</b> and enter the location and file name. You can use response files later for silent installations.</p> <p>For more on silent or command line installation, see Using the Oracle Universal Installer in Silent Mode in <i>Installing Software with the Oracle Universal Installer</i>.</p>
Installation Progress	<p>Shows the installation progress.</p>

**Table 3-1 (Cont.) Oracle WebLogic Server MT Installation Screens**

Screen	Description
Installation Complete	<p>Opens when installation is complete. The next step is launching the Configuration Wizard to create a WebLogic domain. There are two ways to do this:</p> <ul style="list-style-type: none"> <li>• Select <b>Automatically Launch the Configuration Wizard</b>. After you click <b>Finish</b>, the Configuration Wizard starts and you configure a domain. To do this, see <a href="#">Navigating Configuration Wizard Screens to Configure the Domain</a>.</li> <li>• Do not select <b>Automatically Launch the Configuration Wizard</b> on this screen. After you click <b>Finish</b>, you must manually start the Configuration Wizard to configure a domain. To do this, see <a href="#">Starting the Configuration Wizard</a>.</li> </ul> <p>If you chose the <b>Complete with Examples</b> installation type, you see an option to start the Quick Start Configuration Wizard, which you use to create sample domains. See "Quick Start Configuration Wizard" in <i>Creating WebLogic Domains Using the Configuration Wizard</i>.</p>



---

# Creating and Configuring the WebLogic Domain

This section describes how to create and configure the WebLogic Server domain after you successfully install WebLogic Server and Coherence software.

This section includes the following topics:

## [Configuring the WebLogic Domain](#)

Use the steps in this topic to create a WebLogic domain using the Configuration Wizard.

## [Starting the Servers](#)

After you finish configuration, Oracle recommends that you take the following steps to access tools that you use to manage your domain

## [Verifying the Configuration](#)

You want to verify that your domain is configured properly.

## 4.1 Configuring the WebLogic Domain

Use the steps in this topic to create a WebLogic domain using the Configuration Wizard.

For other methods to create a domain, see "Additional Tools for Creating, Extending, and Managing WebLogic Domains" in *Creating WebLogic Domains Using the Configuration Wizard*.

This section includes the following topics:

## [Starting the Configuration Wizard](#)

To begin domain configuration, navigate to the `ORACLE_HOME/oracle_common/common/bin` directory and start the Configuration Wizard.

## [Navigating Configuration Wizard Screens to Configure the Domain](#)

Follow the sequence of topics this section to configure the domain with the Configuration Wizard. You can also use this procedure to extend an existing domain.

### 4.1.1 Starting the Configuration Wizard

To begin domain configuration, navigate to the `ORACLE_HOME/oracle_common/common/bin` directory and start the Configuration Wizard.

On UNIX operating systems:

```
./config.sh
```

On Microsoft Windows operating systems:

.\config.cmd

## 4.1.2 Navigating Configuration Wizard Screens to Configure the Domain

Follow the sequence of topics this section to configure the domain with the Configuration Wizard. You can also use this procedure to extend an existing domain.

If your settings don't match those in the procedure, change your selections accordingly or see supporting documentation for additional details.

To configure multiple products in a single domain, see "Installing Multiple Products in the Same Domain" in *Planning an Installation of Oracle Fusion Middleware*.

### Selecting the Domain Type and Domain Home Location

You specify a Domain type and Domain home directory.

### Selecting Configuration Templates

You select specific templates so that Managed Servers in the cluster will be managed Coherence servers, and the cluster will be a managed Coherence cluster. This is a starting point to set up your Coherence environment.

### Configuring the Administrator Account

On the Administrator Account screen, specify the user name and password for the default WebLogic Administrator account for the domain.

### Specifying the Domain Mode and JDK

There are differences between production mode and development mode.

### Selecting Advanced Configuration

To complete domain configuration for the topology, select these options on the Advanced Configuration screen:

### Configuring the Administration Server Listen Address

On the Administration Server screen, select the drop-down list next to **Listen Address** and select the IP address on the host where the Administration Server will reside.

### Configuring Node Manager

Use the Node Manager screen to select the type of Node Manager you want to configure, along with the Node Manager credentials.

### Configuring Managed Servers

Use the Managed Servers screen to create two new Managed Servers.

### Configure a Cluster

You configure a cluster to group Managed Servers.

### Assigning Managed Servers to the Cluster

To assign `wls_server_1` and `wls_server_2` to the new cluster `wls_cluster_1`, use the Assign Servers to Clusters screen.

### Configuring Coherence Clusters

Use the Coherence Clusters screen to configure the Coherence cluster that is automatically added to the domain. Leave the default port number 0 as the Coherence cluster listen port.

### Creating a New Machine

To create a new machine in the domain, use the Machines screen. Node Manager requires a machine to be able to start and stop servers.

### Assigning Servers to Machines

You assign both Managed Servers to a machine.

### Reviewing Your Configuration Specifications and Configuring the Domain

The Configuration Summary screen has detailed configuration information for the domain you are about to create. Review this screen to verify that the information is correct.

### Writing Down Your Domain Home and Administration Server URL

The Configuration Success screen shows two important items about the domain you just configured.

## 4.1.2.1 Selecting the Domain Type and Domain Home Location

You specify a Domain type and Domain home directory.

To specify the Domain type and Domain home directory:

1. On the Configuration Type screen, select **Create a New Domain**.
2. In the Domain Location field, specify your Domain home directory.

Oracle recommends that you locate your Domain home in accordance with the directory structure summarized in *What are the Key Oracle Fusion Middleware Directories?* in *Understanding Oracle Fusion Middleware*, where the Domain home is located outside the Oracle home directory. This directory structure helps you avoid issues when you upgrade or reinstall your software.

#### Tip:

For more information about the Domain home directory, see "Choosing a Domain Home" in *Planning an Installation of Oracle Fusion Middleware*.

For more information about reinstalling the software, see [Reinstalling Your Software](#).

For more information about other options on this screen, see "Configuration Type" in *Creating WebLogic Domains Using the Configuration Wizard*.

## 4.1.2.2 Selecting Configuration Templates

You select specific templates so that Managed Servers in the cluster will be managed Coherence servers, and the cluster will be a managed Coherence cluster. This is a starting point to set up your Coherence environment.

On the Templates screen select the following templates for configuration:

- **Basic WebLogic Server Domain** (selected by default)
- **WebLogic Coherence Cluster Extension**

For more detailed information and next steps, see [Table 6-1](#).

#### Tip:

For more information about options on this screen, see Templates in *Creating WebLogic Domains Using the Configuration Wizard*.

#### 4.1.2.3 Configuring the Administrator Account

On the Administrator Account screen, specify the user name and password for the default WebLogic Administrator account for the domain.

This account is used to boot and connect to the domain's Administration Server.

**Tip:**

You must make a note of the user name and password you choose to enter here; you will need this in order to be able to start and access the Administration Server.

#### 4.1.2.4 Specifying the Domain Mode and JDK

There are differences between production mode and development mode.

On the Domain Mode and JDK screen:

- Select **Production** in the Domain Mode field.
- Select the **Oracle Hotspot JDK** in the JDK field.

Select **Production Mode** to give your environment a higher degree of security. You need to enter a user name and password to deploy applications and to start the Administration Server.

**Tip:**

For details about options on this screen, including differences between development mode and production mode, see Domain Mode and JDK in *Creating WebLogic Domains Using the Configuration Wizard*.

#### 4.1.2.5 Selecting Advanced Configuration

To complete domain configuration for the topology, select these options on the Advanced Configuration screen:

- Administration Server  
Required to properly configure the Administration Server listen address.
- Node Manager
- Managed Servers, Clusters and Coherence  
Required to configure the Managed Servers and cluster, and for configuring the machine and targeting Managed Servers to the machine.

**Tip:**

To configure dynamic clusters, see "Creating Dynamic Clusters" in *Administering Clusters for Oracle WebLogic Server*.

#### 4.1.2.6 Configuring the Administration Server Listen Address

On the Administration Server screen, select the drop-down list next to **Listen Address** and select the IP address on the host where the Administration Server will reside.

Do *not* use "All Local Addresses".

### 4.1.2.7 Configuring Node Manager

Use the Node Manager screen to select the type of Node Manager you want to configure, along with the Node Manager credentials.

Select **Per-Domain Default Location** as the Node Manager type, then specify Node Manager credentials.

**Tip:**

See Node Manager in *Creating WebLogic Domains Using the Configuration Wizard* for details about options on this screen.

See "Node Manager Overview" in *Administering Node Manager for Oracle WebLogic Server* for details about the types of Node Manager.

### 4.1.2.8 Configuring Managed Servers

Use the Managed Servers screen to create two new Managed Servers.

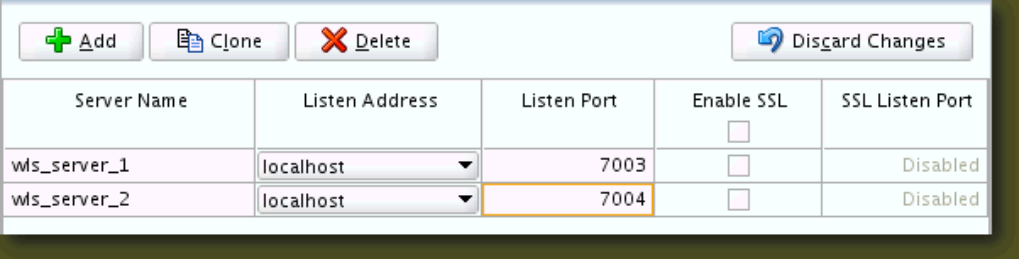
1. Click the **Add** button to create a new Managed Server.
2. Specify `wls_server_1` in the Server name column.
3. In the Listen Address drop-down list, select the IP address of the host that the Managed Server will reside on. Do not use "All Local Addresses".
4. Repeat this process to create a second Managed Server named `wls_server_2`.

Configuring a second Managed Server is one of the steps needed to configure the standard topology for high availability. If you are *not* creating a highly available environment, then this step is optional.

For more on the high availability standard topology, see "Understanding the Fusion Middleware Standard HA Topology" in the *High Availability Guide*.

For more on the next steps to prepare for high availability after your domain is configured, see [Preparing Your Environment For High Availability](#).

The rest of this document uses the `wls_server_1` and `wls_server_2` server names; if you choose different names, be sure to substitute `wls_server_1` and `wls_server_2` with your server names.



Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port
wls_server_1	localhost	7003	<input type="checkbox"/>	Disabled
wls_server_2	localhost	7004	<input type="checkbox"/>	Disabled

**Tip:**

For more about options on this screen, see Managed Servers in *Creating WebLogic Domains Using the Configuration Wizard*.

### 4.1.2.9 Configure a Cluster

You configure a cluster to group Managed Servers.

To create a new cluster:

1. Click the **Add** button.
2. Enter `wls_cluster_1` in the Cluster Name field.
3. Leave the cluster Address field blank.



By default, server instances in a cluster use unicast to communicate with each other. To change your cluster communications to use multicast, see "Considerations for Choosing Unicast or Multicast" in *Administering Clusters for Oracle WebLogic Server*.

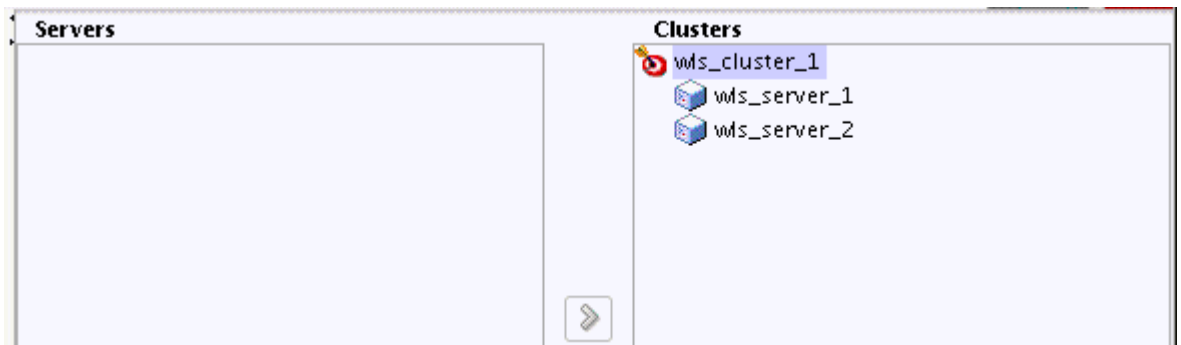
**Tip:**

For more about options on this screen, see Clusters in *Creating WebLogic Domains Using the Configuration Wizard*.

### 4.1.2.10 Assigning Managed Servers to the Cluster

To assign `wls_server_1` and `wls_server_2` to the new cluster `wls_cluster_1`, use the Assign Servers to Clusters screen.

1. In the Clusters pane, select the cluster that you want to assign the servers to; in this case, `wls_cluster_1`.
2. In the Servers pane, take one of the following steps to assign `wls_server_1` to `wls_cluster_1`:
  - Click once on `wls_server_1` to select it, then click on the right arrow to move it beneath the selected cluster (`wls_cluster_1`) in the Clusters pane.
  - Double-click on `wls_server_1` to move it beneath the selected cluster (`wls_cluster_1`) in the clusters pane.
3. Repeat to assign `wls_server_2` to `wls_cluster_1`.



**Tip:**

See Assign Servers to Clusters in *Creating WebLogic Domains Using the Configuration Wizard* for details on options in this screen.

#### 4.1.2.11 Configuring Coherence Clusters

Use the Coherence Clusters screen to configure the Coherence cluster that is automatically added to the domain. Leave the default port number 0 as the Coherence cluster listen port.

---

---

**Note:**

Setting the unicast listen port to 0 creates an offset for the Managed Server port numbers. The offset is 5000, meaning the maximum allowed value that can be assigned to a Managed Server port number is 60535, instead of 65535.

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See [Table 6-2](#) for more information and next steps for configuring Coherence. For Coherence licensing information, see "Oracle Coherence" in *Oracle Fusion Middleware Licensing Information*.

#### 4.1.2.12 Creating a New Machine

To create a new machine in the domain, use the Machines screen. Node Manager requires a machine to be able to start and stop servers.

**Tip:**

If you plan to create a high availability environment and know the list of machines that your target topology requires, you can follow the steps in this topic to create all machines at this time. For more information, see "Optional Scale Out Procedure" in *High Availability Guide*.

To create a new machine in the domain:

1. Click the **Add** button to create a new machine.
2. Specify `wls_machine_1` in the Name field.
3. In the Node Manager Listen Address field, select the IP address of the machine where you are configuring Managed Servers.

You must select a specific interface and not "localhost." This allows Coherence cluster addresses to be dynamically calculated.

4. Verify the port in the Node Manager Listen Port field.

Other examples in the documentation may refer to the port number 5556. Replace this port number with your own port number as needed.

---

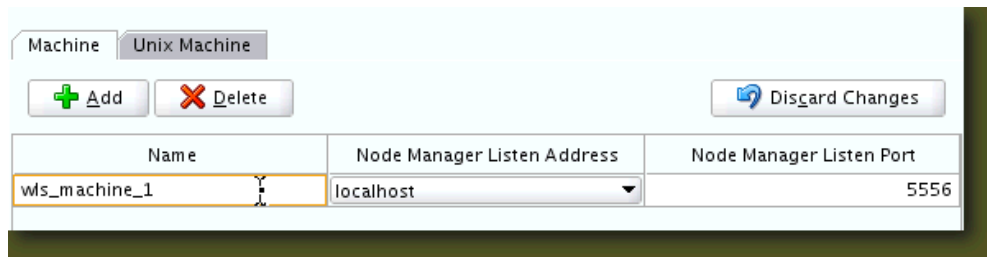
---

**Note:**

If you extend an existing domain, you can assign servers to any existing machine. It is not necessary to create a new machine unless your situation requires it.

---

---

**Tip:**

See "Machines" in *Creating WebLogic Domains Using the Configuration Wizard* for more about this screen.

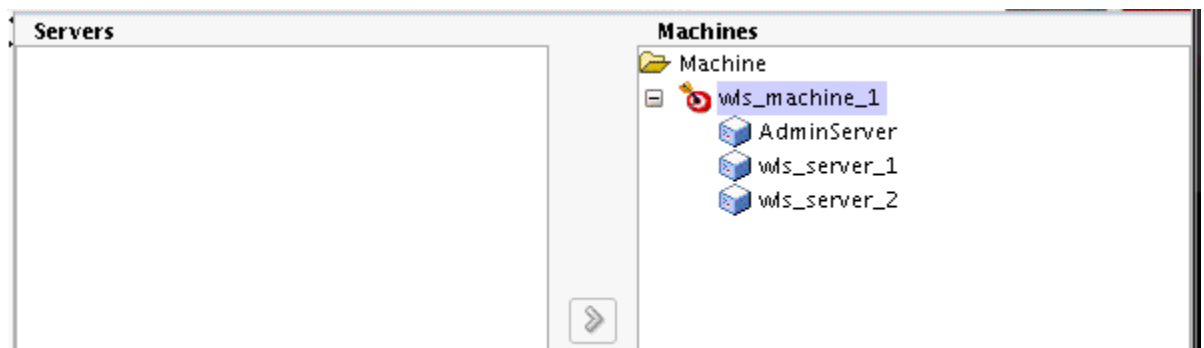
If you plan to create a high availability environment and know the list of machines required for your target topology, you can create all machines at this time. For more information, see "Optional Scale Out Procedure" in *High Availability Guide*.

#### 4.1.2.13 Assigning Servers to Machines

You assign both Managed Servers to a machine.

To assign the Administration Server and Managed Servers to the new machine you just created:

1. In the Machines pane, select the machine you want to assign the servers to; in this case, `wls_machine_1`.
2. In the Servers pane, assign AdminServer to `wls_machine_1` by doing one of the following:
  - Click once on AdminServer to select it, then click on the right arrow to move it beneath the selected machine (`wls_machine_1`) in the Machines pane.
  - Double-click on AdminServer to move it beneath the selected machine (`wls_machine_1`) in the Machines pane.
3. Repeat to assign both `wls_server_1` and `wls_server_2` to `wls_machine_1`.

**Tip:**

See Assign Servers to Machines in *Creating WebLogic Domains Using the Configuration Wizard* for more on options on this screen.



#### 4.1.2.14 Reviewing Your Configuration Specifications and Configuring the Domain

The Configuration Summary screen has detailed configuration information for the domain you are about to create. Review this screen to verify that the information is correct.

To make any changes, go back to a screen by using the **Back** button or selecting the screen in the navigation pane.

Domain creation does not start until you click **Create**.

**Tip:**

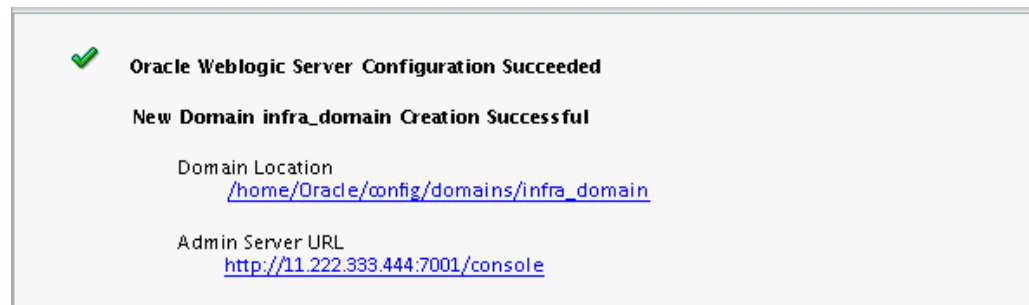
See Configuration Summary in *Creating WebLogic Domains Using the Configuration Wizard* for more on options in this screen.

#### 4.1.2.15 Writing Down Your Domain Home and Administration Server URL

The Configuration Success screen shows two important items about the domain you just configured.

The Configuration Success screen shows:

- Domain Location
- Administration Server URL



You must make a note of both items; you need them to start the servers and access the Administration Server.

Click **Finish** to dismiss the Configuration Wizard.

## 4.2 Starting the Servers

After you finish configuration, Oracle recommends that you take the following steps to access tools that you use to manage your domain

### Starting the Node Manager

To start your per-domain Node Manager, go to the `DOMAIN_HOME/bin` directory.

### Starting the Administration Server

To start the Administration Server, go the `DOMAIN_HOME/bin` directory.

### Starting Managed Servers

To start Managed Servers, go the `DOMAIN_HOME/bin` directory and run the command:

## 4.2.1 Starting the Node Manager

To start your per-domain Node Manager, go to the `DOMAIN_HOME/bin` directory.

On UNIX operating systems, start Node Manager as shown below, using `nohup` and `nm.out` as an example output file:

```
nohup ./startNodeManager.sh > nm.out&
```

On Windows operating systems, run:

```
startNodeManager.cmd
```

---

---

**Note:**

If you use Windows, Oracle recommends that you install Node Manager to run as a startup service. This allows Node Manager to start up automatically each time the system is restarted. (Node Manager is not required to start servers, Oracle recommends it over other methods.)

For more information, see "Running Node Manager as a Startup Service" in *Administering Node Manager for Oracle WebLogic Server*.

---

---

## 4.2.2 Starting the Administration Server

To start the Administration Server, go the `DOMAIN_HOME/bin` directory.

On UNIX operating systems, run:

```
./startWebLogic.sh
```

On Windows operating systems, run:

```
startWebLogic.cmd
```

If you selected **Production Mode** on the Domain Mode and JDK screen in [Specifying the Domain Mode and JDK](#), you see a prompt for Administrator login credentials, shown on the Administrator Account screen in [Configuring the Administrator Account](#).

**Tip:**

For more about starting the Administration Server, see "Starting and Stopping Servers" in *Administering Server Startup and Shutdown for Oracle WebLogic Server*.

In production mode, you can create a boot identity file to bypass the need to provide a user name and password when starting the Administration Server. For more information, see "Creating a Boot Identity File for an Administration Server" in *Administering Server Startup and Shutdown for Oracle WebLogic Server*.

## 4.2.3 Starting Managed Servers

To start Managed Servers, go the `DOMAIN_HOME/bin` directory and run the command:

On UNIX operating systems:

```
./startManagedWebLogic.sh managed_server_name admin_server_url
```

On Windows operating systems:

```
startManagedWebLogic.cmd managed_server_name admin_server_url
```

Replace *managed\_server\_name* with the names of Managed Server you want to start. For this topology, Managed Server names are *wls\_server\_1* and *wls\_server\_2* (defined on the Managed Server screen in [Configuring Managed Servers](#)). You must run this command twice, once for each Managed Server.

Replace *admin\_server\_url* with the Administration Server's full URL, as shown in the Configuration Success screen in [Reviewing Your Configuration Specifications and Configuring the Domain](#).

The following examples show commands to start *wls\_server\_1* and *wls\_server\_2* on a UNIX operating system:

```
./startManagedWebLogic.sh wls_server_1 t3:\\examplehost.exampledomain.com:7001 &  
./startManagedWebLogic.sh wls_server_2 t3:\\examplehost.exampledomain.com:7001 &
```

**Tip:**

For more on starting Managed Servers, see "Starting and Stopping Servers" in *Administering Server Startup and Shutdown for Oracle WebLogic Server*.

## 4.3 Verifying the Configuration

You want to verify that your domain is configured properly.

To verify configuration, see [Performing Basic Administrative Tasks](#). Oracle recommends that you familiarize yourself with the tasks that this section describes and perform them to verify that your domain is properly configured.



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# Creating a WebLogic Domain for WebLogic Server MT

This section explains how to configure a domain for use with WebLogic Server MT.

This section includes the following topics:

## [Configuring the WebLogic Domain](#)

Use the steps in this topic to create a WebLogic domain using the Configuration Wizard.

## [Starting the Servers](#)

After you finish configuration, Oracle recommends that you take the following steps to access tools that you use to manage your domain

## [Verifying the Configuration](#)

You want to verify that your domain is configured properly.

## 5.1 Configuring the WebLogic Domain

Use the steps in this topic to create a WebLogic domain using the Configuration Wizard.

For other methods to create a domain, see "Additional Tools for Creating, Extending, and Managing WebLogic Domains" in *Creating WebLogic Domains Using the Configuration Wizard*.

This section includes the following topics:

## [Starting the Configuration Wizard](#)

To begin domain configuration, navigate to the `ORACLE_HOME/oracle_common/common/bin` directory and start the Configuration Wizard.

## [Navigating Configuration Wizard Screens to Configure the Domain](#)

Follow the sequence of topics this section to configure the domain with the Configuration Wizard. You can also use this procedure to extend an existing domain.

### 5.1.1 Starting the Configuration Wizard

To begin domain configuration, navigate to the `ORACLE_HOME/oracle_common/common/bin` directory and start the Configuration Wizard.

On UNIX operating systems:

```
./config.sh
```

On Microsoft Windows operating systems:

```
.\config.cmd
```

## 5.1.2 Navigating Configuration Wizard Screens to Configure the Domain

Follow the sequence of topics this section to configure the domain with the Configuration Wizard. You can also use this procedure to extend an existing domain.

If your settings don't match those in the procedure, change your selections accordingly or see supporting documentation for additional details.

To configure multiple products in a single domain, see "Installing Multiple Products in the Same Domain" in *Planning an Installation of Oracle Fusion Middleware*.

### Selecting the Domain Type and Domain Home Location

You specify a Domain type and Domain home directory.

### Selecting Configuration Templates for a WebLogic Server MT Domain

On the Templates screen, you select specific templates for a WebLogic Server MT domain.

### Configuring the Administrator Account

On the Administrator Account screen, specify the user name and password for the default WebLogic Administrator account for the domain.

### Specifying the Domain Mode and JDK

There are differences between production mode and development mode.

### Selecting Advanced Configuration

To complete domain configuration for the topology, select these options on the Advanced Configuration screen:

### Configuring the Administration Server Listen Address

On the Administration Server screen, select the drop-down list next to **Listen Address** and select the IP address on the host where the Administration Server will reside.

### Configuring Node Manager

Use the Node Manager screen to select the type of Node Manager you want to configure, along with the Node Manager credentials.

### Configuring Managed Servers

Use the Managed Servers screen to create two new Managed Servers.

### Configure a Cluster

You configure a cluster to group Managed Servers.

### Assigning Managed Servers to the Cluster

To assign `wls_server_1` and `wls_server_2` to the new cluster `wls_cluster_1`, use the Assign Servers to Clusters screen.

### Configuring Coherence Clusters

Use the Coherence Clusters screen to configure the Coherence cluster that is automatically added to the domain. Leave the default port number 0 as the Coherence cluster listen port.

### Creating a New Machine

To create a new machine in the domain, use the Machines screen. Node Manager requires a machine to be able to start and stop servers.

### Assigning Servers to Machines

You assign both Managed Servers to a machine.

### Virtual Targets

If you have a WebLogic Server Multitenant (MT) environment, you use the Virtual Targets screen to add or delete virtual targets. For this installation (not a WebLogic Server MT environment), you do not enter any values; just select **Next**.

### Partitions

The Partitions screen is used to configure partitions for virtual targets in WebLogic Server Multitenant (MT) environments. Select **Next** without selecting any options.

### Reviewing Your Configuration Specifications and Configuring the Domain

The Configuration Summary screen has detailed configuration information for the domain you are about to create. Review this screen to verify that the information is correct.

### Writing Down Your Domain Home and Administration Server URL

The Configuration Success screen shows two important items about the domain you just configured.

#### 5.1.2.1 Selecting the Domain Type and Domain Home Location

You specify a Domain type and Domain home directory.

To specify the Domain type and Domain home directory:

1. On the Configuration Type screen, select **Create a New Domain**.
2. In the Domain Location field, specify your Domain home directory.

Oracle recommends that you locate your Domain home in accordance with the directory structure summarized in *What are the Key Oracle Fusion Middleware Directories?* in *Understanding Oracle Fusion Middleware*, where the Domain home is located outside the Oracle home directory. This directory structure helps you avoid issues when you upgrade or reinstall your software.

#### Tip:

For more information about the Domain home directory, see "Choosing a Domain Home" in *Planning an Installation of Oracle Fusion Middleware*.

For more information about reinstalling the software, see [Reinstalling Your Software](#).

For more information about other options on this screen, see "Configuration Type" in *Creating WebLogic Domains Using the Configuration Wizard*.

#### 5.1.2.2 Selecting Configuration Templates for a WebLogic Server MT Domain

On the Templates screen, you select specific templates for a WebLogic Server MT domain.

Select the following templates for a WebLogic Server MT domain:

- **Basic WebLogic Server Domain** (selected by default)

- **Oracle Enterprise Manager-Restricted JRF** Oracle recommends that you select this template for a WebLogic Server MT installation, instead of the Oracle JRF template. Selecting this template selects the Oracle Restricted JRF template automatically.
- **Oracle Restricted JRF** (Selected by default when you select the Oracle Enterprise Manager-Restricted JRF template.)
- **WebLogic Coherence Cluster Extension**  
(Selected by default.) This template makes Managed Servers in the cluster managed Coherence servers, and makes the cluster a managed Coherence cluster. This is a starting point to set up a Coherence environment. For more information and next steps, see [Next Steps After Configuring the WebLogic Server Domain](#).

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**Note:**

This topic describes how to apply templates for WLS MT using the Configuration Wizard. However, if you use WLST to create managed servers (configured or dynamic), the JRF template does *not* apply automatically. When you use the Fusion Middleware Console to monitor the domain, monitoring does not work for the servers without the JRF template. See *Configuring WebLogic Server MT: The Big Picture in Oracle Fusion Middleware Using WebLogic Server MT*.

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**Tip:**

For more information about options on this screen, see *Templates in Creating WebLogic Domains Using the Configuration Wizard*.

### 5.1.2.3 Configuring the Administrator Account

On the Administrator Account screen, specify the user name and password for the default WebLogic Administrator account for the domain.

This account is used to boot and connect to the domain's Administration Server.

**Tip:**

You must make a note of the user name and password you choose to enter here; you will need this in order to be able to start and access the Administration Server.

### 5.1.2.4 Specifying the Domain Mode and JDK

There are differences between production mode and development mode.

On the Domain Mode and JDK screen:

- Select **Production** in the Domain Mode field.
- Select the **Oracle Hotspot JDK** in the JDK field.

Select **Production Mode** to give your environment a higher degree of security. You need to enter a user name and password to deploy applications and to start the Administration Server.

**Tip:**



For details about options on this screen, including differences between development mode and production mode, see Domain Mode and JDK in *Creating WebLogic Domains Using the Configuration Wizard*.

### 5.1.2.5 Selecting Advanced Configuration

To complete domain configuration for the topology, select these options on the Advanced Configuration screen:

- Administration Server  
Required to properly configure the Administration Server listen address.
- Node Manager
- Managed Servers, Clusters and Coherence  
Required to configure the Managed Servers and cluster, and for configuring the machine and targeting Managed Servers to the machine.

**Tip:**

To configure dynamic clusters, see "Creating Dynamic Clusters" in *Administering Clusters for Oracle WebLogic Server*.

### 5.1.2.6 Configuring the Administration Server Listen Address

On the Administration Server screen, select the drop-down list next to **Listen Address** and select the IP address on the host where the Administration Server will reside.

Do *not* use "All Local Addresses".

### 5.1.2.7 Configuring Node Manager

Use the Node Manager screen to select the type of Node Manager you want to configure, along with the Node Manager credentials.

Select **Per-Domain Default Location** as the Node Manager type, then specify Node Manager credentials.

**Tip:**

See Node Manager in *Creating WebLogic Domains Using the Configuration Wizard* for details about options on this screen.

See "Node Manager Overview" in *Administering Node Manager for Oracle WebLogic Server* for details about the types of Node Manager.

### 5.1.2.8 Configuring Managed Servers

Use the Managed Servers screen to create two new Managed Servers.

1. Click the **Add** button to create a new Managed Server.
2. Specify `wls_server_1` in the Server name column.
3. In the Listen Address drop-down list, select the IP address of the host that the Managed Server will reside on. Do not use "All Local Addresses".
4. Repeat this process to create a second Managed Server named `wls_server_2`.

Configuring a second Managed Server is one of the steps needed to configure the standard topology for high availability. If you are *not* creating a highly available environment, then this step is optional.

For more on the high availability standard topology, see "Understanding the Fusion Middleware Standard HA Topology" in the *High Availability Guide*.

For more on the next steps to prepare for high availability after your domain is configured, see [Preparing Your Environment For High Availability](#).

The rest of this document uses the `wls_server_1` and `wls_server_2` server names; if you choose different names, be sure to substitute `wls_server_1` and `wls_server_2` with your server names.

Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port
wls_server_1	localhost	7003	<input type="checkbox"/>	Disabled
wls_server_2	localhost	7004	<input type="checkbox"/>	Disabled

**Tip:**

For more about options on this screen, see Managed Servers in *Creating WebLogic Domains Using the Configuration Wizard*.

### 5.1.2.9 Configure a Cluster

You configure a cluster to group Managed Servers.

To create a new cluster:

1. Click the **Add** button.
2. Enter `wls_cluster_1` in the Cluster Name field.
3. Leave the cluster Address field blank.

Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS Port
wls_cluster_1			0	0

By default, server instances in a cluster use unicast to communicate with each other. To change your cluster communications to use multicast, see "Considerations for Choosing Unicast or Multicast" in *Administering Clusters for Oracle WebLogic Server*.

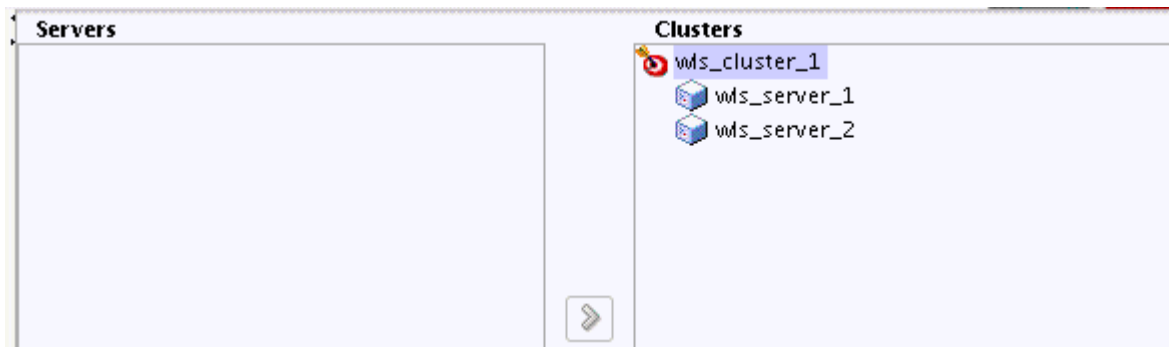
**Tip:**

For more about options on this screen, see Clusters in *Creating WebLogic Domains Using the Configuration Wizard*.

### 5.1.2.10 Assigning Managed Servers to the Cluster

To assign `wls_server_1` and `wls_server_2` to the new cluster `wls_cluster_1`, use the Assign Servers to Clusters screen.

1. In the Clusters pane, select the cluster that you want to assign the servers to; in this case, `wls_cluster_1`.
2. In the Servers pane, take one of the following steps to assign `wls_server_1` to `wls_cluster_1`:
  - Click once on `wls_server_1` to select it, then click on the right arrow to move it beneath the selected cluster (`wls_cluster_1`) in the Clusters pane.
  - Double-click on `wls_server_1` to move it beneath the selected cluster (`wls_cluster_1`) in the clusters pane.
3. Repeat to assign `wls_server_2` to `wls_cluster_1`.



**Tip:**

See Assign Servers to Clusters in *Creating WebLogic Domains Using the Configuration Wizard* for details on options in this screen.

### 5.1.2.11 Configuring Coherence Clusters

Use the Coherence Clusters screen to configure the Coherence cluster that is automatically added to the domain. Leave the default port number 0 as the Coherence cluster listen port.

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**Note:**

Setting the unicast listen port to 0 creates an offset for the Managed Server port numbers. The offset is 5000, meaning the maximum allowed value that can be assigned to a Managed Server port number is 60535, instead of 65535.

---

See [Table 6-2](#) for more information and next steps for configuring Coherence. For Coherence licensing information, see "Oracle Coherence" in *Oracle Fusion Middleware Licensing Information*.

### 5.1.2.12 Creating a New Machine

To create a new machine in the domain, use the Machines screen. Node Manager requires a machine to be able to start and stop servers.

**Tip:**

If you plan to create a high availability environment and know the list of machines that your target topology requires, you can follow the steps in this topic to create all machines at this time. For more information, see "Optional Scale Out Procedure" in *High Availability Guide*.

To create a new machine in the domain:

1. Click the **Add** button to create a new machine.
2. Specify `wls_machine_1` in the Name field.
3. In the Node Manager Listen Address field, select the IP address of the machine where you are configuring Managed Servers.

You must select a specific interface and not "localhost." This allows Coherence cluster addresses to be dynamically calculated.

4. Verify the port in the Node Manager Listen Port field.

Other examples in the documentation may refer to the port number 5556. Replace this port number with your own port number as needed.

**Note:**

If you extend an existing domain, you can assign servers to any existing machine. It is not necessary to create a new machine unless your situation requires it.

The screenshot shows a configuration window titled "Machine" with a sub-tab "Unix Machine". It contains three buttons: "Add" (with a green plus icon), "Delete" (with a red X icon), and "Discard Changes" (with a blue circular arrow icon). Below the buttons is a table with three columns: "Name", "Node Manager Listen Address", and "Node Manager Listen Port". The table has one row with the following values: "wls\_machine\_1" in the Name column, "localhost" in the Node Manager Listen Address column, and "5556" in the Node Manager Listen Port column.

Name	Node Manager Listen Address	Node Manager Listen Port
wls_machine_1	localhost	5556

**Tip:**

See "Machines" in *Creating WebLogic Domains Using the Configuration Wizard* for more about this screen.

If you plan to create a high availability environment and know the list of machines required for your target topology, you can create all machines at this time. For more information, see "Optional Scale Out Procedure" in *High Availability Guide*.

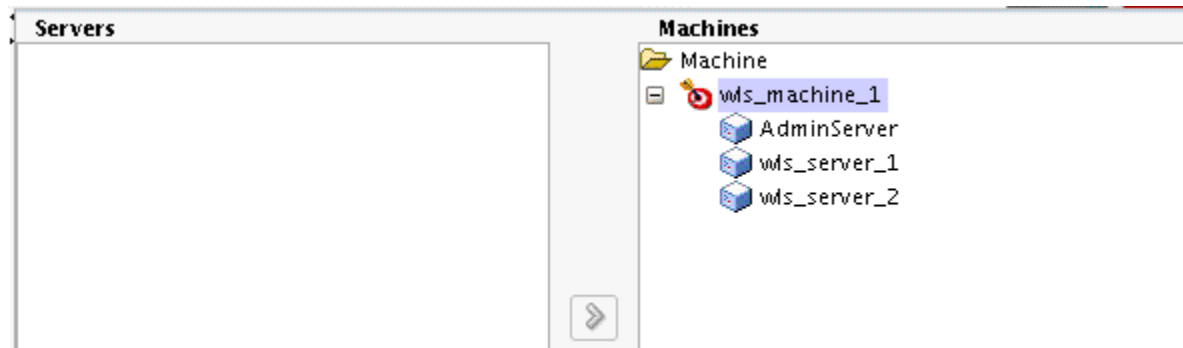
### 5.1.2.13 Assigning Servers to Machines

You assign both Managed Servers to a machine.

To assign the Administration Server and Managed Servers to the new machine you just created:

1. In the Machines pane, select the machine you want to assign the servers to; in this case, `wls_machine_1`.

2. In the Servers pane, assign AdminServer to wls\_machine\_1 by doing one of the following:
  - Click once on AdminServer to select it, then click on the right arrow to move it beneath the selected machine (wls\_machine\_1) in the Machines pane.
  - Double-click on AdminServer to move it beneath the selected machine (wls\_machine\_1) in the Machines pane.
3. Repeat to assign both wls\_server\_1 and wls\_server\_2 to wls\_machine\_1.

**Tip:**

See Assign Servers to Machines in *Creating WebLogic Domains Using the Configuration Wizard* for more on options on this screen.

#### 5.1.2.14 Virtual Targets

If you have a WebLogic Server Multitenant (MT) environment, you use the Virtual Targets screen to add or delete virtual targets. For this installation (not a WebLogic Server MT environment), you do not enter any values; just select **Next**.

For more information on Virtual Targets, see Assign Virtual Targets to Partitions in *Creating WebLogic Domains Using the Configuration Wizard*.

#### 5.1.2.15 Partitions

The Partitions screen is used to configure partitions for virtual targets in WebLogic Server Multitenant (MT) environments. Select **Next** without selecting any options.

For more information on the Partitions screen, see Partitions in *Creating WebLogic Domains Using the Configuration Wizard*.

#### 5.1.2.16 Reviewing Your Configuration Specifications and Configuring the Domain

The Configuration Summary screen has detailed configuration information for the domain you are about to create. Review this screen to verify that the information is correct.

To make any changes, go back to a screen by using the **Back** button or selecting the screen in the navigation pane.

Domain creation does not start until you click **Create**.

**Tip:**

See Configuration Summary in *Creating WebLogic Domains Using the Configuration Wizard* for more on options in this screen.

### 5.1.2.17 Writing Down Your Domain Home and Administration Server URL

The Configuration Success screen shows two important items about the domain you just configured.

The Configuration Success screen shows:

- Domain Location
- Administration Server URL



You must make a note of both items; you need them to start the servers and access the Administration Server.

Click **Finish** to dismiss the Configuration Wizard.

## 5.2 Starting the Servers

After you finish configuration, Oracle recommends that you take the following steps to access tools that you use to manage your domain

### Starting the Node Manager

To start your per-domain Node Manager, go to the *DOMAIN\_HOME*/bin directory.

### Starting the Administration Server

To start the Administration Server, go the *DOMAIN\_HOME*/bin directory.

### Starting Managed Servers

To start Managed Servers, go the *DOMAIN\_HOME*/bin directory and run the command:

### 5.2.1 Starting the Node Manager

To start your per-domain Node Manager, go to the *DOMAIN\_HOME*/bin directory.

On UNIX operating systems, start Node Manager as shown below, using `nohup` and `nm.out` as an example output file:

```
nohup ./startNodeManager.sh > nm.out&
```

On Windows operating systems, run:

```
startNodeManager.cmd
```

---

#### Note:

If you use Windows, Oracle recommends that you install Node Manager to run as a startup service. This allows Node Manager to start up automatically

each time the system is restarted. (Node Manager is not required to start servers, Oracle recommends it over other methods.)

For more information, see "Running Node Manager as a Startup Service" in *Administering Node Manager for Oracle WebLogic Server*.

---

## 5.2.2 Starting the Administration Server

To start the Administration Server, go the `DOMAIN_HOME/bin` directory.

On UNIX operating systems, run:

```
./startWebLogic.sh
```

On Windows operating systems, run:

```
startWebLogic.cmd
```

If you selected **Production Mode** on the Domain Mode and JDK screen in [Specifying the Domain Mode and JDK](#), you see a prompt for Administrator login credentials, shown on the Administrator Account screen in [Configuring the Administrator Account](#).

### Tip:

For more about starting the Administration Server, see "Starting and Stopping Servers" in *Administering Server Startup and Shutdown for Oracle WebLogic Server*.

In production mode, you can create a boot identity file to bypass the need to provide a user name and password when starting the Administration Server. For more information, see "Creating a Boot Identity File for an Administration Server" in *Administering Server Startup and Shutdown for Oracle WebLogic Server*.

## 5.2.3 Starting Managed Servers

To start Managed Servers, go the `DOMAIN_HOME/bin` directory and run the command:

On UNIX operating systems:

```
./startManagedWebLogic.sh managed_server_name admin_server_url
```

On Windows operating systems:

```
startManagedWebLogic.cmd managed_server_name admin_server_url
```

Replace `managed_server_name` with the names of Managed Server you want to start. For this topology, Managed Server names are `wls_server_1` and `wls_server_2` (defined on the Managed Server screen in [Configuring Managed Servers](#)). You must run this command twice, once for each Managed Server.

Replace `admin_server_url` with the Administration Server's full URL, as shown in the Configuration Success screen in [Reviewing Your Configuration Specifications and Configuring the Domain](#).

The following examples show commands to start `wls_server_1` and `wls_server_2` on a UNIX operating system:

```
./startManagedWebLogic.sh wls_server_1 t3:\examplehost.exampledomain.com:7001 &  
./startManagedWebLogic.sh wls_server_2 t3:\examplehost.exampledomain.com:7001 &
```

**Tip:**

For more on starting Managed Servers, see "Starting and Stopping Servers" in *Administering Server Startup and Shutdown for Oracle WebLogic Server*.

## 5.3 Verifying the Configuration

You want to verify that your domain is configured properly.

To verify configuration, see [Performing Basic Administrative Tasks](#). Oracle recommends that you familiarize yourself with the tasks that this section describes and perform them to verify that your domain is properly configured.



---

## Next Steps After Configuring the WebLogic Server Domain

This section describes common tasks you might want to perform on the newly created WebLogic Server domain.

This section includes the following topics:

### [Performing Basic Administrative Tasks](#)

There are common administration tasks you will likely want to perform on your newly created domain.

### [Performing Additional Domain Configuration Tasks](#)

There are additional tasks that you probably want to perform on your newly created domain.

### [Performing Domain Configuration Tasks for WebLogic Server MT](#)

There are additional tasks you probably want to perform on your newly created domain.

### [Preparing Your Environment For High Availability](#)

There are tasks you must perform to scale out your standard installation environment for high availability.

## 6.1 Performing Basic Administrative Tasks

There are common administration tasks you will likely want to perform on your newly created domain.

**Table 6-1 Basic Administration Tasks for a New Domain**

Task	Description	More Information
Getting familiar with Fusion Middleware administration tools	Get familiar with tools that you can use to manage your environment.	"System Administration" in <i>Understanding Oracle WebLogic Server</i> .
Starting and stopping products and servers	Learn how to start and stop Oracle Fusion Middleware, including the Administration Server, Managed Servers, and components.	"Starting and Stopping Servers" in <i>Administering Server Startup and Shutdown for Oracle WebLogic Server</i> .
Configuring Secure Sockets Layer (SSL)	Learn how to set up secure communications among Oracle Fusion Middleware components using SSL.	"Overview of Configuring SSL in WebLogic Server" in <i>Administering Security for Oracle WebLogic Server</i> .
Understanding diagnostic and troubleshooting procedures	Learn recommended diagnostic and troubleshooting procedures for Oracle Fusion Middleware.	"Monitoring, Diagnosing, and Troubleshooting" in <i>Understanding Oracle WebLogic Server</i> .

## 6.2 Performing Additional Domain Configuration Tasks

There are additional tasks that you probably want to perform on your newly created domain.

**Table 6-2 Additional Domain Configuration Tasks**

Task	Description	More Information
Deploying applications	Learn how to deploy your applications to WebLogic Server.	Deploying Applications in WebLogic Server in <i>Understanding Oracle WebLogic Server</i> .
Adding a Web Tier front-end to your domain	Oracle Web Tier hosts Web pages (static and dynamic), provides security and high performance along with built-in clustering, load balancing, and failover features. In particular, the Web Tier can contain Oracle HTTP Server instances. If you are configuring Oracle WebLogic Server for multitenancy, install and configure Oracle Traffic Director in the Web tier.	See the steps to install and configure a standalone Oracle HTTP Server in <i>Installing and Configuring Oracle HTTP Server</i> . Also see "Installing Multiple Products in the Same Domain" in <i>Planning an Installation of Oracle Fusion Middleware</i> for important information.
Tuning and configuring Coherence for your topology.	A standard installation topology includes a Coherence cluster that contains storage-enabled Managed Coherence Servers. This setup is a good starting point to use Coherence, but depending upon your specific requirements, consider tuning and reconfiguring Coherence to improve performance in a production environment.	For more on Coherence clusters, see "Configuring and Managing Coherence Clusters" in <i>Administering Clusters for Oracle WebLogic Server</i> . To tune Coherence, see <i>Administering Oracle Coherence</i> . To store HTTP session data in Coherence, see "Using Coherence Web with WebLogic Server" in <i>Administering HTTP Session Management with Oracle Coherence*Web</i> . To create and deploy Coherence applications, see <i>Developing Oracle Coherence Applications for Oracle WebLogic Server</i> .

## 6.3 Performing Domain Configuration Tasks for WebLogic Server MT

There are additional tasks you probably want to perform on your newly created domain.

**Table 6-3 Additional Domain Configuration Tasks**

Task	Description	More Information
Deploying applications	Learn how to deploy your applications to WebLogic Server.	Deploying Applications in WebLogic Server in <i>Understanding Oracle WebLogic Server</i> .

**Table 6-3 (Cont.) Additional Domain Configuration Tasks**

Task	Description	More Information
Adding a Web Tier front-end to your domain	Oracle Web Tier hosts Web pages (static and dynamic), provides security and high performance along with built-in clustering, load balancing, and failover features.  If you are configuring WebLogic Server MT, install and configure Oracle Traffic Director in the Web Tier.	<a href="#">Adding Oracle Traffic Director as a WebLogic Server MT Front End</a> <a href="#">Configuring Oracle Traffic Director in WebLogic Server MT</a> Also see "Installing Multiple Products in the Same Domain" in <i>Planning an Installation of Oracle Fusion Middleware</i> for important information.
Tuning and configuring Coherence for your topology.	A standard installation topology includes a Coherence cluster that contains storage-enabled Managed Coherence Servers. This setup is a good starting point to use Coherence, but depending upon your specific requirements, consider tuning and reconfiguring Coherence to improve performance in a production environment.	For more on Coherence clusters, see "Configuring and Managing Coherence Clusters" in <i>Administering Clusters for Oracle WebLogic Server</i> .  To tune Coherence, see <i>Administering Oracle Coherence</i> .  To store HTTP session data in Coherence, see "Using Coherence Web with WebLogic Server" in <i>Administering HTTP Session Management with Oracle Coherence*Web</i> .  To create and deploy Coherence applications, see <i>Developing Oracle Coherence Applications for Oracle WebLogic Server</i> .

#### [Adding Oracle Traffic Director as a WebLogic Server MT Front End](#)

If you are configuring WebLogic Server MT, install and configure Oracle Traffic Director in the Web tier. Oracle Traffic Director (OTD) is a software load balancer for load balancing HTTP/S and TCP traffic to servers in the back-end.

#### [Configuring Oracle Traffic Director in WebLogic Server MT](#)

After you install Oracle Traffic Director as the front end to an Oracle WebLogic Server MT domain, you want to connect the two elements.

### 6.3.1 Adding Oracle Traffic Director as a WebLogic Server MT Front End

If you are configuring WebLogic Server MT, install and configure Oracle Traffic Director in the Web tier. Oracle Traffic Director (OTD) is a software load balancer for load balancing HTTP/S and TCP traffic to servers in the back-end.

To add OTD as a front end to a WebLogic Server MT domain, see Oracle Traffic Director Installation Guide

### 6.3.2 Configuring Oracle Traffic Director in WebLogic Server MT

After you install Oracle Traffic Director as the front end to an Oracle WebLogic Server MT domain, you want to connect the two elements.

To configure Oracle Traffic Director in a WebLogic Server MT domain, see [Configuring Oracle Traffic Director in Oracle Fusion Middleware Using WebLogic Server MT](#).

## 6.4 Preparing Your Environment For High Availability

There are tasks you must perform to scale out your standard installation environment for high availability.

**Table 6-4 Tasks Required to Prepare Your Environment for High Availability**

Task	Description	More Information
Configuring Node Manager	Node Manager enables you to start, shut down, and restart the Administration Server and Managed Server instances from a remote location, making this an essential utility for any high availability environment.	<i>Administering Node Manager for Oracle WebLogic Server.</i>
Enabling failover and replication	To enable high availability, it is important to provide failover capabilities to another host computer. That way, if one computer goes down, your environment can continue to serve the consumers of your deployed applications.	"WebLogic Server Clustering" in the <i>Understanding Oracle WebLogic Server</i> .
Configuring high availability for your Web Tier components	If you have added a Web Tier front-end, then you must configure the Web Tier for high availability, as well as the WebLogic Server software.	"Configuring High Availability for Web Tier Components" in <i>High Availability Guide</i> .
Setting up a front-end load balancer	You can use a load balancer to distribute requests across servers more evenly.	"Load Balancing HTTP Sessions with an External Load Balancer" in <i>Administering Clusters for Oracle WebLogic Server</i> .

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# Deinstalling Oracle WebLogic Server and Coherence

This section describes how to deinstall and reinstall Oracle WebLogic Server and Coherence. Oracle recommends that you always use the instructions in this section to remove the software. If you try to remove the software manually, you may encounter problems when you try to reinstall the software again at a later time. Following the procedures in this section ensures that the software is properly removed.

This section includes the following topics:

## About Product Deinstallation

The deinstaller removes the software from the Oracle home directory that you start it in.

## Stopping Oracle Fusion Middleware

Before you run the deinstaller, Oracle recommends that you stop all servers and processes associated with the Oracle home you are going to remove.

## Deinstalling the Software

Follow steps in this section to start the product deinstaller and remove the software.

## Removing Oracle Home Directory Manually

After deinstalling the software, you must manually remove your Oracle home directory and any existing subdirectories that the deinstaller did not remove.

## Removing Program Shortcuts on Windows Operating Systems

On Windows operating systems, you must also manually remove the program shortcuts; the deinstaller does not remove them for you.

## Removing Your Domain and Application Data

After deinstalling the software, you must remove the domain and application data if you don't plan to use it or if you don't plan to reconfigure a domain for a new WebLogic Server installation..

## Reinstalling Your Software

You can reinstall your software into the same Oracle home as a previous installation *only* if you deinstalled the software by following deinstallation instructions, including manually removing the Oracle home directory.

## 7.1 About Product Deinstallation

The deinstaller removes the software from the Oracle home directory that you start it in.

The deinstaller removes only components that the installation program installed; the deinstaller does *not* remove:

- All files and directories in the Oracle home.
- The JDK or any user-created data, such as WebLogic domains or custom application data.

The following table summarizes the procedure and has links to supporting documents.

**Table 7-1 Roadmap for Deinstalling Oracle Fusion Middleware Infrastructure**

Task	Description and Documentation	Documentation
Stop Oracle Fusion Middleware.	Oracle recommends that you stop all servers and processes in your domain before you run the deinstaller	See <a href="#">Stopping Oracle Fusion Middleware</a> .
Remove the software.	Run the product deinstaller to remove Oracle WebLogic Server and Coherence.	See <a href="#">Deinstalling the Software</a> .
Remove the Oracle home directory.	The deinstaller does not remove all files and folders from the Oracle home directory. After the deinstaller finishes, you must manually remove the Oracle home to complete your product removal.	See <a href="#">Removing Oracle Home Directory Manually</a> .
Remove program shortcuts (Windows operating systems)	The deinstaller does not remove the program shortcuts on your Windows operating system.	See <a href="#">Removing Program Shortcuts on Windows Operating Systems</a>
Remove your domain and application data.	The deinstaller does not remove data contained in your Domain home or Application home directories, even if they are located inside the Oracle home. You must remove these directories manually.	See <a href="#">Removing Your Domain and Application Data</a> .

## 7.2 Stopping Oracle Fusion Middleware

Before you run the deinstaller, Oracle recommends that you stop all servers and processes associated with the Oracle home you are going to remove.

For more information, see "Starting and Stopping Servers" in *Administering Server Startup and Shutdown for Oracle WebLogic Server*.

## 7.3 Deinstalling the Software

Follow steps in this section to start the product deinstaller and remove the software.

To run a silent (command-line) deinstallation, see "Running the Oracle Universal Installer for Silent Deinstallation" in *Installing Software with the Oracle Universal Installer*.

### Starting the Deinstallation Program

How you start the deinstallation program depends on your operating system: Windows or UNIX.

### Navigating Deinstallation Screens

The deinstallation program shows a series of screens, in the order that the following table lists.

## 7.3.1 Starting the Deinstallation Program

How you start the deinstallation program depends on your operating system: Windows or UNIX.

On UNIX operating systems, go to the `ORACLE_HOME/oui/bin` directory and enter the command `./deinstall.sh`

On Windows operating systems, choose one of the following options to start deinstallation:

- From the command line, go to the `ORACLE_HOME\oui\bin` and enter `deinstall.cmd`.
- From the **Start** menu, select **All Programs**, select **Oracle**, select **OracleHome**, then select **Uninstall Oracle Middleware**.
- Use a file manager window to go to the `ORACLE_HOME\oui\bin` directory and double click on `deinstall.cmd`

## 7.3.2 Navigating Deinstallation Screens

The deinstallation program shows a series of screens, in the order that the following table lists.

If you need additional help with a deinstallation screen, click **Help**.

**Table 7-2 Deinstallation Screens and Descriptions**

Screen	Description
Welcome	Introduces you to the product deinstaller.
Deinstallation Summary	Shows the Oracle home directory and its contents to deinstall. Verify that this is the correct directory. Click <b>Deinstall</b> to begin removing the software.
Deinstallation Progress	Shows the deinstallation progress.
Deinstallation Complete	Opens when the deinstallation is complete. Review this screen then click <b>Finish</b> to dismiss the deinstaller.

## 7.4 Removing Oracle Home Directory Manually

After deinstalling the software, you must manually remove your Oracle home directory and any existing subdirectories that the deinstaller did not remove.

For example, if your Oracle home directory is `/home/Oracle/products/Oracle_Home` on a UNIX operating system:

```
cd /home/Oracle/products
rm -rf Oracle_Home
```

On a Windows operating system, if your Oracle home directory was `C:\Oracle\Products\Oracle_Home`, use a file manager window and navigate to the `C:\Oracle\Products` directory, then right-click on the `Oracle_Home` folder and select **Delete**.

## 7.5 Removing Program Shortcuts on Windows Operating Systems

On Windows operating systems, you must also manually remove the program shortcuts; the deinstaller does not remove them for you.

Go to the `C:\Program Data\Microsoft\Windows\Start Menu\Programs\Oracle\Oracle_Home\Product` directory. If you only have one product installed in your Oracle home, you can remove the `Oracle_Home` directory. If you have multiple products installed in your Oracle home, you must remove all products before removing the `Oracle_Home`.

## 7.6 Removing Your Domain and Application Data

After deinstalling the software, you must remove the domain and application data if you don't plan to use it or if you don't plan to reconfigure a domain for a new WebLogic Server installation..

To remove your domain and application data:

1. Manually remove your Domain home directory.

For example, if your Domain home directory was `/home/Oracle/config/domains/infra_domain` on a UNIX operating system:

```
cd /home/Oracle/config/domains
rm -rf infra_domain
```

On a Windows operating system, if your Domain home directory was `C:\Oracle\Config\domains\infra_domain`, use a file manager window and navigate to the `C:\Oracle\Config\domains` directory, then right-click on the `infra_domain` folder and select **Delete**.

2. Manually remove your Application home directory.

For example, if your Application home directory was `/home/Oracle/config/applications/infra_domain` on a UNIX operating system:

```
cd /home/Oracle/config/applications
rm -rf infra_domain
```

On a Windows operating system, if your Application home directory was `C:\Oracle\Config\applications\infra_domain`, use a file manager window and navigate to the `C:\Oracle\Config\applications` directory, then right-click on the `infra_domain` folder and select **Delete**.

3. Backup the `domain_registry.xml` file in your Oracle home, then edit the file and remove the line associated with the domain you are removing. For example, to remove the `infra_domain`, find the following line and remove it:

```
<domain location="/home/Oracle/config/domains/infra_domain"/>
```

Save and exit the file when you are finished.



## 7.7 Reinstalling Your Software

You can reinstall your software into the same Oracle home as a previous installation *only* if you deinstalled the software by following deinstallation instructions, including manually removing the Oracle home directory.

When you reinstall, you can then specify the same Oracle home as your previous installation.

Consider the following cases where the Oracle home is not empty:

### [Scenario: Installing in an Existing Oracle Home that Contains the Same Feature Sets](#)

The installer warns you that the Oracle home you specified during installation already contains the software you're trying to install now.

### [Scenario: Installing in an Existing, Non-Empty Oracle Home](#)

You chose to create your Domain home or Application home somewhere inside your existing Oracle home. The deinstallation process does not remove this data, so if you try to reinstall into the same Oracle home, the installer does not allow it.

### 7.7.1 Scenario: Installing in an Existing Oracle Home that Contains the Same Feature Sets

The installer warns you that the Oracle home you specified during installation already contains the software you're trying to install now.

Your options:

- Select a different installation type. In this case, only feature sets that do not already exist in the Oracle home directory get installed.
- Select a different Oracle home directory.

### 7.7.2 Scenario: Installing in an Existing, Non-Empty Oracle Home

You chose to create your Domain home or Application home somewhere inside your existing Oracle home. The deinstallation process does not remove this data, so if you try to reinstall into the same Oracle home, the installer does not allow it.

Your options:

- Deinstall your software from the Oracle home then remove the Oracle home directory. You can then reinstall and reuse the same Oracle home location, using the instructions in [Deinstalling Oracle WebLogic Server and Coherence](#). You must re-create any domain or application data that was in the Oracle home.
- Select a different Oracle home directory.



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## About the Oracle WebLogic Server and Coherence Distribution

The Oracle WebLogic Server and Coherence distribution (fmw\_12.2.1.1.0\_wls\_generic.jar) includes a variety of products and feature sets.

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**Note:**

Oracle WebLogic Server is also available with the Oracle Fusion Middleware Infrastructure distribution (fmw\_12.2.1.1.0\_infrastructure\_generic.jar). See Understanding the Infrastructure Standard Installation Topology in *Installing and Configuring the Oracle Fusion Middleware Infrastructure*.

---

**Table A-1 Oracle Fusion Middleware Infrastructure Products and Feature Sets**

Installation Type	Installed Items	Description
WebLogic Server	WebLogic Server	A scalable, enterprise-ready Java Platform, Enterprise Edition (Java EE) application server. The WebLogic Server infrastructure supports the deployment of many types of distributed applications and is an ideal foundation for building applications based on service-oriented architecture (SOA).
WebLogic Server	Coherence	Coherence provides replicated and distributed (partitioned) data management and caching services on top of a reliable, highly scalable peer-to-peer clustering protocol. Coherence has no single points of failure; it automatically and transparently fails over and redistributes its clustered data management services when a server becomes inoperative or is disconnected from the network. When a new server is added, or when a failed server is restarted, it automatically joins the cluster and Coherence fails back services to it, transparently redistributing the cluster load. Coherence includes network-level fault tolerance features and transparent soft re-start capability to enable servers to self-heal.  For more information about Coherence, see <i>Oracle Coherence Getting Started Guide</i> .
WebLogic Server	WebLogic Server Clients	Thin-client JARs required for connecting to a WebLogic Server instance. Includes the JARs for the web services, JMS, Store and Forward, WebLogic RMI, JMS .NET, and JMX clients.

**Table A-1 (Cont.) Oracle Fusion Middleware Infrastructure Products and Feature Sets**

<b>Installation Type</b>	<b>Installed Items</b>	<b>Description</b>
WebLogic Server	Administration Console	A web application hosted by the Administration Server that is used for managing and monitoring an active domain.
WebLogic Server	CIE WLS Config	Provides files used by the Oracle Fusion Middleware Configuration Wizard.
WebLogic Server	Third-Party JDBC Drivers	Other JDBC drivers bundled with WebLogic Server that can be used to connect a WebLogic Server environment to an external database. For more information about this feature set, see "Using JDBC Drivers with WebLogic Server" in <i>Administering JDBC Data Sources for Oracle WebLogic Server</i> .
WebLogic Server	Third-Party Jackson	Third party open source software for processing JavaScript Object Notation (JSON) data formats.
WebLogic Server	Third-Party Jersey	Third party open source software representing the official implementation of the Representational State Transfer (REST) architecture. For more information, see <i>Developing and Securing RESTful Web Services for Oracle WebLogic Server</i> .
WebLogic Server	Third-Party Maven Apache	Maven is a build management tool that is central to project build tasks such as compilation, packaging, and artifact management. For more information, see <i>Developing Applications Using Continuous Integration</i> .
WebLogic Server	OPatch	The OPatch utility is a tool that allows the application and rollback of interim patches to Oracle products
<b>Coherence</b>	WebLogic Server	A scalable, enterprise-ready Java Platform, Enterprise Edition (Java EE) application server. The WebLogic Server infrastructure supports the deployment of many types of distributed applications and is an ideal foundation for building applications based on service-oriented architecture.

**Table A-1 (Cont.) Oracle Fusion Middleware Infrastructure Products and Feature Sets**

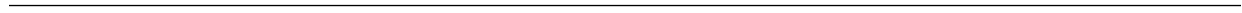
Installation Type	Installed Items	Description
Coherence	Coherence	Coherence provides replicated and distributed (partitioned) data management and caching services on top of a reliable, highly scalable peer-to-peer clustering protocol. Coherence has no single points of failure; it automatically and transparently fails over and redistributes its clustered data management services when a server becomes inoperative or is disconnected from the network. When a new server is added, or when a failed server is restarted, it automatically joins the cluster and Coherence fails back services to it, transparently redistributing the cluster load. Coherence includes network-level fault tolerance features and transparent soft re-start capability to enable servers to self-heal.  For more information about Coherence, see <i>Oracle Coherence Getting Started Guide</i> .
Coherence	Administration Console	A web application hosted by the Administration Server that is used for managing and monitoring an active domain.
Coherence	CIE WLS Config	Provides files used by the Oracle Fusion Middleware Configuration Wizard.
Coherence	Third-Party JDBC Drivers	Other JDBC drivers bundled with WebLogic Server that can be used to connect a WebLogic Server environment to an external database.  For more information about this feature set, see "Using JDBC Drivers with WebLogic Server" in <i>Administering JDBC Data Sources for Oracle WebLogic Server</i> .
Coherence	Third-Party Jackson	Third party open source software for processing JavaScript Object Notation (JSON) data formats.
Coherence	Third-Party Jersey	Third party open source software representing the official implementation of the Representational State Transfer (REST) architecture.  For more information, see <i>Developing and Securing RESTful Web Services for Oracle WebLogic Server</i> .
Coherence	Third-Party Maven Apache	Maven is a build management tool that is central to project build tasks such as compilation, packaging, and artifact management.  For more information, see <i>Developing Applications Using Continuous Integration</i> .
Coherence	OPatch	The OPatch utility is a tool that allows the application and rollback of interim patches to Oracle products

**Table A-1 (Cont.) Oracle Fusion Middleware Infrastructure Products and Feature Sets**

Installation Type	Installed Items	Description
Complete Installation with Examples	WebLogic Server	A scalable, enterprise-ready Java Platform, Enterprise Edition (Java EE) application server. The WebLogic Server infrastructure supports the deployment of many types of distributed applications and is an ideal foundation for building applications based on service-oriented architecture (SOA).
Complete Installation with Examples	Coherence	Coherence provides replicated and distributed (partitioned) data management and caching services on top of a reliable, highly scalable peer-to-peer clustering protocol. Coherence has no single points of failure; it automatically and transparently fails over and redistributes its clustered data management services when a server becomes inoperative or is disconnected from the network. When a new server is added, or when a failed server is restarted, it automatically joins the cluster and Coherence fails back services to it, transparently redistributing the cluster load. Coherence includes network-level fault tolerance features and transparent soft re-start capability to enable servers to self-heal.  For more information about Coherence, see <i>Oracle Coherence Getting Started Guide</i> .
Complete Installation with Examples	WebLogic Server Clients	Thin-client JARs required for connecting to a WebLogic Server instance. Includes the JARs for the web services, JMS, Store and Forward, WebLogic RMI, JMS .NET, and JMX clients.
Complete Installation with Examples	Administration Console	A web application hosted by the Administration Server that is used for managing and monitoring an active domain.
Complete Installation with Examples	CIE WLS Config	Provides files used by the Oracle Fusion Middleware Configuration Wizard.
Complete Installation with Examples	Third-Party JDBC Drivers	Other JDBC drivers bundled with WebLogic Server that can be used to connect a WebLogic Server environment to an external database.  For more information about this feature set, see "Using JDBC Drivers with WebLogic Server" in <i>Administering JDBC Data Sources for Oracle WebLogic Server</i> .
Complete Installation with Examples	Apache Derby	Oracle's distribution of the open source Apache Derby Java database, also called Java DB. Derby is a pure Java relational database management system (RDBMS) provided with Oracle WebLogic Server to allow you to run code examples with a functional database server. Derby is for demonstration (that is, non-production) use only.

**Table A-1 (Cont.) Oracle Fusion Middleware Infrastructure Products and Feature Sets**

Installation Type	Installed Items	Description
Complete Installation with Examples	Third-Party Jackson	Third party open source software for processing JavaScript Object Notation (JSON) data formats.
Complete Installation with Examples	Third-Party Jersey	Third party open source software representing the official implementation of the Representational State Transfer (REST) architecture. For more information, see <i>Developing and Securing RESTful Web Services for Oracle WebLogic Server</i> .
Complete Installation with Examples	Third-Party Maven Apache	Maven is a build management tool that is central to project build tasks such as compilation, packaging, and artifact management. For more information, see <i>Developing Applications Using Continuous Integration</i> .
Complete Installation with Examples	WebLogic Server Examples	Server Examples are example applications that demonstrate key features of WebLogic Server. For more information, see "Sample Application and Code Examples" in <i>Understanding Oracle WebLogic Server</i> .
Complete Installation with Examples	Coherence Examples	Coherence Examples demonstrate how to use the features of Coherence in all supported languages (Java, .NET, and C++). The examples are organized collections of code that show how to use one or more features, and provide a single common way (per language) to build and run all examples. Source code for the examples is included. <b>Note:</b> Both Server Examples and Coherence Examples are only installed if you select the <b>Fusion Middleware Infrastructure with Examples</b> install type.
Complete Installation with Examples	OPatch	The OPatch utility is a tool that allows the application and rollback of interim patches to Oracle products.





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# Installing WebLogic Server for Developers

The WebLogic Server development release includes all the necessary files to develop and test applications on WebLogic Server, but uses less disk space than a complete WebLogic Server installation. The development installation is intended only for development. It is supported on Windows, Linux and Mac OS X systems.

This section includes the following topics:

## [Files Included with WebLogic Server Development](#)

The development installation has two JAR files.

## [Downloading the Installers](#)

You download the installers from Oracle Technology Network.

## [WebLogic Server for Developers Installation Prerequisites](#)

The Developers installation has disk space and JDK requirements.

## [Installing WebLogic Server for Developers](#)

The WebLogic Server for Developers installation uses Oracle Universal Installer to run a silent operation. No input is needed.

## [Creating a Development Domain](#)

You create a development domain in the same way you normally do for WebLogic Server using either the Configuration Wizard or WebLogic Scripting Tool (WLST).

## [Starting and Accessing the Domain](#)

You start your domain before accessing the Administration Console.

## [Upgrading a Development Installation](#)

To upgrade a development installation, you must download and install the new distribution to a new location. After installing the new distribution, use the Fusion Middleware Reconfiguration Wizard or WLST to associate an existing domain with the new installation.

## [Patching a Development Installation](#)

You use the Oracle Patching tool (OPatch) to apply patches to a WebLogic Server development installation .

## [Removing the WebLogic Server for Developers Installation](#)

Use the Oracle Universal Installer (OUI) deinstallation tool to remove a WebLogic Server for Developers installation.

## B.1 Files Included with WebLogic Server Development

The development installation has two JAR files.

- Base development installer—Contains required WebLogic Server components:

- Essential development files, such as Core Application Server and Coherence
- WebLogic Server Administration Console
- WebLogic client JAR files
- TopLink
- Jackson (open-source Java JSON processor)
- Jersey (open-source RESTful Web Services framework)
- Maven (open-source repository manager)
- OPatch
- OUI installation and deinstallation files

The base installer does not include:

- Native JNI libraries for unsupported platforms
- Oracle Configuration Manager (OCM)
- Web services clients
- Server samples
- Coherence examples
- WebLogic Server Administration Console Language help files
- Derby evaluation database
- Supplement development installer—this JAR file adds the following optional WebLogic Server components to an existing base development installation:
  - Server examples
  - Derby evaluation database
  - WebLogic Server Administration Console Language help files
  - Coherence examples
  - Web services clients

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**Note:**

For up-to-date information and known issues for WebLogic Server for Developers base and supplemental installers, see README files available for each development installer on the Oracle download site.

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## B.2 Downloading the Installers

You download the installers from Oracle Technology Network.

To download the files:

1. Create the `ORACLE_HOME` directory in which to install WebLogic Server for Developers.

2. Navigate to <http://download.oracle.com>. WebLogic Server for Developers JAR files are available only on Oracle Technology Network.
3. Navigate to the WebLogic Server 12c (12.2.1.1) download page.
4. Accept the license agreement.
5. Navigate to the page that lists all WebLogic Server for Developers distributions.
6. Right click on the link for each file you want to download and save the file to the directory you created in Step 1.

## B.3 WebLogic Server for Developers Installation Prerequisites

The Developers installation has disk space and JDK requirements.

The WebLogic Server for Developers installation requires:

- A minimum of 800MB of disk space
- JDK 1.8 update or greater

Before you run the installer:

- Set `JAVA_HOME` in the shell window you are using to run the installation.

Operating System	Example Commands
Linux	<code>export JAVA_HOME=/myhome/jdk1.8.0_77</code>
Mac	<code>export JAVA_HOME= /Library/Java/ JavaVirtualMachines/1.8.0.jdk/Contents/ Home</code> <code>export USER_MEM_ARGS="-Xmx1024m"</code>
Windows	<code>set JAVA_HOME=C:\Program Files\java \jdk1.8.0_77</code>

- For Mac environments, Oracle recommends that you set the Xmx memory argument
- Create the `ORACLE_HOME` directory prior to starting the installation. This directory must exist and must be empty before running the basic installer.

## B.4 Installing WebLogic Server for Developers

The WebLogic Server for Developers installation uses Oracle Universal Installer to run a silent operation. No input is needed.

You must install the WebLogic Server for Developers base installation first. After it installs, if you want components included in the supplemental installer, run the WebLogic Server for Developers supplemental installation using the same steps.

Topics in this section include the following:

### [Installing from the ORACLE\\_HOME Directory](#)

Follow these steps to run the installer from the `ORACLE_HOME` directory.

### Installing from a Directory Other Than ORACLE\_HOME

Follow these steps to run the installer from a directory *other than* ORACLE\_HOME directory

#### B.4.1 Installing from the ORACLE\_HOME Directory

Follow these steps to run the installer from the ORACLE\_HOME directory.

1. Change to the ORACLE\_HOME directory you created.
2. Enter the following command to start the installation, where *path* is the directory location that you downloaded the installation JAR file to:

```
java -jar path/installer_jar_filename
```

For example, if you stored the JAR file in /myhome/downloads:

```
java -jar /myhome/downloads/installer_jar_filename
```

3. When installation completes, see [Creating a Development Domain](#).

#### B.4.2 Installing from a Directory Other Than ORACLE\_HOME

Follow these steps to run the installer from a directory *other than* ORACLE\_HOME directory

1. Change to the directory that contains the installer JAR file.
2. Enter the following command to start the installation, setting the ORACLE\_HOME parameter to the ORACLE\_HOME directory you created.

```
java -jar installer_jar_filename ORACLE_HOME=path_to_MW_HOME
```

For example, if ORACLE\_HOME is /myhome/wls1221:

```
java -jar installer_jar_filename ORACLE_HOME=/myhome/wls1221
```

3. When installation completes, see [Creating a Development Domain](#).

### B.5 Creating a Development Domain

You create a development domain in the same way you normally do for WebLogic Server using either the Configuration Wizard or WebLogic Scripting Tool (WLST).

Oracle recommends that you create the domain *outside* the ORACLE\_HOME directory.

To create a domain using the Configuration Wizard:

1. Change to the oracle\_common/common/bin directory in your ORACLE\_HOME:

```
cd ORACLE_HOME/oracle_common/common/bin
```

2. Start the Configuration Wizard:

---

Environment	Command
UNIX or Mac	./config.sh

---

Environment	Command
Windows	config.cmd

For detailed information about Configuration Wizard screens, click **Help** or see *Creating WebLogic Domains Using the Configuration Wizard*.

To create a domain using WLST, see "Create WebLogic Domains Using WLST Offline" in *Understanding the WebLogic Scripting Tool*.

## B.6 Starting and Accessing the Domain

You start your domain before accessing the Administration Console.

To start your WebLogic domain and access the Administration Console:

1. Change to the domain directory.
2. Enter the following command:

Environment	Command
UNIX or Mac	./startWebLogic.sh
Windows	startWebLogic.cmd

3. When the domain is in a RUNNING state, open a Web browser and enter the domain's URL. Use the Administration Port value you entered when creating the domain. For example:

```
http://localhost:7001/console/
```

4. Log in to the Administration Console using the Administrator user name and password you entered when you created the domain.

For more about starting and stopping WebLogic Server, see *Administering Server Startup and Shutdown for Oracle WebLogic Server*.

For more about the WebLogic Server Administration Console, refer to the *Oracle WebLogic Server Administration Console Online Help*.

## B.7 Upgrading a Development Installation

To upgrade a development installation, you must download and install the new distribution to a new location. After installing the new distribution, use the Fusion Middleware Reconfiguration Wizard or WLST to associate an existing domain with the new installation.

To upgrade a domain using the Reconfiguration Wizard:

1. Change to the oracle\_common/common/bin directory in the new ORACLE\_HOME:

```
cd ORACLE_HOME/oracle_common/common/bin
```

2. Start the Reconfiguration Wizard:

Environment	Command
UNIX or Mac	<code>./reconfig.sh</code>
Windows	<code>reconfig.cmd</code>

For more information on the Reconfiguration Wizard, click the **Help** button or see *Upgrading Oracle WebLogic Server*.

To upgrade a domain using WLST, see "Reconfiguring a WebLogic Domain Using WebLogic Scripting Tool" in *Upgrading Oracle WebLogic Server*.

## B.8 Patching a Development Installation

You use the Oracle Patching tool (OPatch) to apply patches to a WebLogic Server development installation .

For information about upgrading WebLogic Server, see "About Rolling Updates" in *Upgrading Oracle WebLogic Server*.

For information about using OPatch, see *Patching with OPatch*.

## B.9 Removing the WebLogic Server for Developers Installation

Use the Oracle Universal Installer (OUI) deinstallation tool to remove a WebLogic Server for Developers installation.

To remove a WebLogic Server for Developers installation:

1. Go to the oui/bin directory:

```
cd ORACLE_HOME/oui/bin
```

2. Run the deinstaller:

Environment	Command
UNIX or Mac	<code>./deinstall.sh</code>
Windows	<code>deinstall.cmd</code>

3. Click **Next**.
4. Click **Deinstall**. Wait for deinstallation to complete.
5. Click **Finish**
6. Navigate up three directory levels:

```
cd ../../..
```

7. Remove the ORACLE\_HOME directory:

<b>Environment</b>	<b>Command</b>
UNIX or Mac	<code>rm -r ORACLE_HOME</code>
Windows	<code>rmdir ORACLE_HOME</code>

For example:

```
rm -r /myhome/wls1221
```

For more information about deinstallation, see [Deinstalling Oracle WebLogic Server and Coherence](#).

