

## **Oracle® Fusion Middleware**

Creating WebLogic Domains Using the Configuration Wizard

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This document describes how to use the Configuration Wizard to create, update, and extend WebLogic domains.

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# Preface

This preface describes the document accessibility features and conventions used in this guide—*Creating WebLogic Domains Using the Configuration Wizard*.

## Documentation Accessibility

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## Conventions

The following text conventions are used in this document:

Convention	Meaning
<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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# Introduction

This chapter introduces WebLogic domains, provides an overview of the Configuration Wizard, and introduces templates. It also describes additional ways for creating domains.

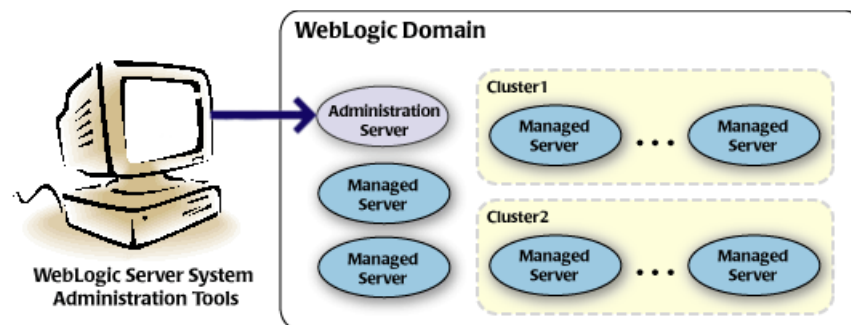
It includes the following sections:

- [Section 1.1, "Introduction to WebLogic Domains"](#)
- [Section 1.2, "Overview of the Configuration Wizard"](#)
- [Section 1.3, "About Templates"](#)
- [Section 1.4, "Additional Tools for Creating, Extending, and Managing WebLogic Domains"](#)

## 1.1 Introduction to WebLogic Domains

A WebLogic domain is the basic administrative unit of WebLogic Server. It consists of one or more WebLogic Server instances, and logically related resources and services that are managed collectively as one unit.

*Figure 1–1 WebLogic Domain Structure*



As shown in [Figure 1–1](#), the basic domain infrastructure consists of one Administration Server and optional Managed Servers and clusters. A WebLogic domain can also contain Coherence clusters.

The components of a WebLogic domain are described in [Table 1–1](#).

**Table 1–1 WebLogic Domain Infrastructure Components**

Component	Description
Administration Server	<p>A domain includes one WebLogic Server instance that is configured as an Administration Server. All changes to configuration and deployment of applications are done through the Administration Server.</p> <p>The Administration Server provides a central point for managing the domain and providing access to the WebLogic Server administration tools. These tools include:</p> <ul style="list-style-type: none"> <li>WebLogic Server Administration Console: Graphical user interface to the Administration Server.</li> <li>WebLogic Server Node Manager: A Java program that lets you start and stop server instances—both Administration Servers and Managed Servers—remotely, and to monitor and automatically restart them after an unexpected failure.</li> </ul> <p>Note that the Node Manager is installed on all the machines that host any server instance—both the Administration Server and Managed Servers.</p> <p>For more information about the WebLogic Server administration tools, see "Summary of System Administration Tools and APIs" in <i>Understanding Oracle WebLogic Server</i>.</p>
Managed Servers	<p>All other WebLogic Server instances in a domain are called Managed Servers. Managed Servers host application components and resources, which are also deployed and managed as part of the domain. In a domain with only a single WebLogic Server instance, that single server works as both the Administration Server and the Managed Server.</p>
Clusters	<p>A domain may also include WebLogic Server clusters, which are groups of Managed Server instances that work together to provide scalability and high availability for applications. Clusters can improve performance and provide failover when a server instance becomes unavailable. The servers within a cluster can either run on the same machine or reside in different machines. To the client, a cluster appears as a single WebLogic Server instance.</p>
Coherence clusters	<p>A domain may also include Coherence clusters. A Coherence cluster is a group of cluster nodes that share a group address, which allows the cluster nodes to communicate. For more information on Coherence clusters, see "Clustering in Coherence" in <i>Oracle Coherence Getting Started Guide</i>.</p>
Managed Coherence servers	<p>A domain may also include managed Coherence servers. A managed Coherence server is any WebLogic Managed Server that is assigned to a Coherence cluster. For more information on managed Coherence servers, see "Configuring Managed Coherence Clusters" in <i>Administering Clusters for Oracle WebLogic Server</i>.</p>

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**Note:** All Managed Servers in a domain must run the same version of WebLogic Server. The Administration Server can run either the same version as the Managed Servers in the domain, or a later patch set.

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In addition to infrastructure components, a domain defines the basic network configuration for the server instances that it contains. Specifically, a domain defines application deployments, supported application services (such as database and messaging services), security options, and physical host machines.

Domain configuration information is stored in the configuration directories under the domain directory.



## Common WebLogic Domain Configurations

You might find it useful to configure multiple WebLogic Domains based on specific criteria, such as system administrator responsibilities, the logical classification of applications, the geographical locations of servers, or size. The following table outlines the most common domain configurations.

**Table 1–2 Common WebLogic Domain Configurations**

Configuration	Description
Domain with Managed Servers	In typical production environments, several Managed Servers can host applications, and an Administration Server performs management operations.
Domain with Managed Servers and clusters	In production environments that require increased performance, throughput, or availability for an application, several Managed Servers might be grouped in a cluster.  In such a case, the WebLogic domain consists of one or more clusters with the applications they host, additional Managed Servers (if necessary), and an Administration Server to perform management operations.
Standalone server domain	In development or test environments, a single application server might be deployed independently without Managed Servers. In such a case, you can have a WebLogic domain consisting of a single Administration Server that also hosts the applications you want to test or develop.

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**Note:** In production environments, Oracle recommends that you deploy applications only on Managed Servers, and that you reserve the Administration Server for management tasks.

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For more information about WebLogic domains, see "Understanding Oracle WebLogic Server Domains" in *Understanding Domain Configuration for Oracle WebLogic Server*.

## 1.2 Overview of the Configuration Wizard

Before you can develop and run an application on a WebLogic domain, you must first create the WebLogic domain. The Configuration Wizard (illustrated in [Figure 1–2](#)), simplifies the process of creating and updating a domain.

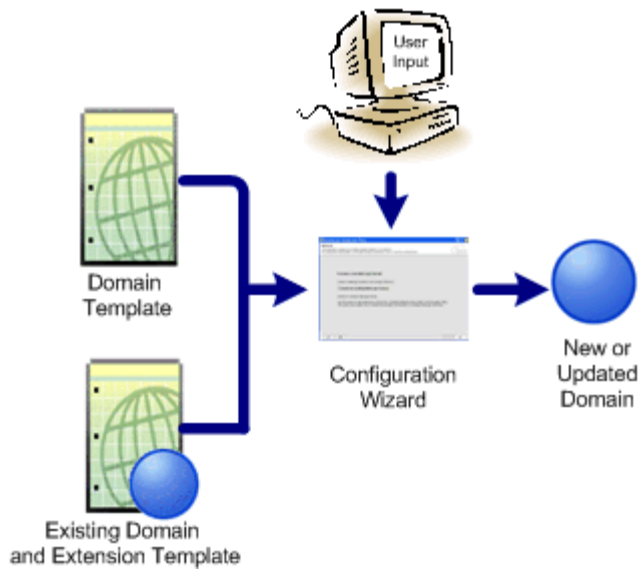
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**Note:** If your domain includes Fusion Middleware products, you can use the Reconfiguration Wizard to reconfigure the Fusion Middleware applications in the domain when you upgrade to a new version of WebLogic Server and the applications. See "Reconfiguring WebLogic Domains" in *Upgrading Oracle WebLogic Server*.

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To create or extend a WebLogic domain by using the Configuration Wizard, you simply select the product components (product templates) to be included in the domain (or choose a template that best meets your requirements), and provide basic configuration information. The Configuration Wizard then creates or updates the domain by adding the resources defined in the selected product templates.

For more information about templates, see [Section 1.3, "About Templates."](#)

**Figure 1–2 Configuration Wizard**

After you use the Configuration Wizard to create a WebLogic domain, you can start a WebLogic Server instance in the domain to develop, test, and deploy applications.

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**Note:** The Domain Template Builder tool simplifies the process of creating templates by guiding you through the process of creating custom domain and extension templates. You can select these templates to create and update domains either by using the Configuration Wizard or the WebLogic Scripting Tool (WLST). For information about the Domain Template Builder, see *Creating Domain Templates Using the Domain Template Builder*. For information about creating domains using WLST, see "Creating Domains Using WLST Offline" in *Understanding the WebLogic Scripting Tool*.

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## 1.2.1 Modes of Operation

You can use the Configuration Wizard only when there is no server running. It supports only the following GUI modes:

- Normal GUI mode, which displays all of the applicable screens for configuring or extending your domain. See [Section 2.3, "Starting the Configuration Wizard,"](#) for information about how to start the wizard in this mode.
- Quick Start mode, which displays a small subset of configuration screens from which you can specify the critical settings for the WebLogic Server samples domains. See [Section 2.6, "Running the Quick Start Configuration Wizard."](#)
- Reconfiguration mode, which is used to upgrade your WebLogic domain after installing a new WebLogic Server version and, if applicable, any installed Fusion Middleware applications to be compatible with a newly installed WebLogic Server version. For more information on this mode, see "Reconfiguring a WebLogic Domain in Graphical Mode" in *Upgrading Oracle WebLogic Server*.

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**Note:** For a scripted, silent-mode method, you can use WLST. For more information, see *Understanding the WebLogic Scripting Tool*.

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## 1.2.2 Quick Start Configuration Wizard

When installing WebLogic Server (standalone), if you included the samples, an option is provided on the Installation Complete screen to run the Quick Start Configuration Wizard to configure the WebLogic Server sample domains. If you select this option, the Quick Start Configuration Wizard starts after the installer completes. In this mode, you are presented with one screen, [Configuration](#), from which you specify the following critical settings for the samples domains:

- Administration Server username and password
- Domain parent directory
- Application parent directory
- Administration Server listen address and listen port
- SSL listen port
- Coherence listen port (if applicable)

The following Administration Server settings are enabled by default for the samples domains and cannot be changed:

- SSL
- Coherence
- Coherence storage

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**Note:** You can also run the Quick Start Wizard manually to create the samples domains. See [Section 2.6, "Running the Quick Start Configuration Wizard."](#)

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## 1.2.3 Output of the Configuration Wizard

A WebLogic domain that was created using the Configuration Wizard has the following directories.

Directory	Description
autodeploy	This directory provides a location from which you can deploy applications quickly on a development server. When the WebLogic Server instance is running in development mode, it automatically deploys any applications or modules that you place in this directory.
bin	This directory contains scripts to start and stop the Administration Server, and, optionally, Managed Servers.
config	<p>This directory contains:</p> <ul style="list-style-type: none"> <li>■ A domain-specific configuration file, <code>config.xml</code>, that specifies the name of the WebLogic domain and the configuration parameter settings for each server instance, cluster, resource, and service in the domain.</li> <li>■ Subdirectories that contain the configuration for various system modules: <code>coherence</code>, <code>configCache</code>, <code>deployments</code>, <code>diagnostics</code>, <code>jdbc</code>, <code>jms</code>, <code>lib</code>, <code>nodemanager</code>, <code>security</code>, and <code>startup</code>. These subdirectories contain configuration files that are incorporated, by reference, into the <code>config.xml</code> file.</li> </ul> <p><b>Note:</b> Depending on your configuration, some subdirectories may not exist.</p>

Directory	Description
console-ext	This directory contains console extensions used by the Administration Server.
init-info	This directory contains files used by the Configuration Wizard to support creation and extension of the WebLogic domain.
lib	This directory contains the domain library. When the server starts, any jar files that you place in this directory are dynamically added to the end of the server classpath.
nodemanager	This directory contains Node Manager configuration files.
security	This directory contains common security files for all the servers in the domain.
servers	This directory contains a subdirectory for each server in the domain. These server subdirectories, in turn, contain subdirectories that hold directories and files specific to each server in a WebLogic domain, such as bin, cache, data, logs, security, and tmp.
user_staged_config	If the domain is configured to be user-staged, that is, the administrator is responsible for staging (copying) the configuration information to the Managed Servers, this directory provides an alternative to the config directory.

If the template used to create a WebLogic domain includes applications, the application files are located, by default, in `user_projects/applications/domain_name`, unless you specified another location. If you did, the applications are located in `domain_home/applications/domain_name`.

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**Note:** Oracle recommends that you create your domains outside of the Middleware Home directory. This makes it easier for you to upgrade to a newer version of WebLogic Server without having to recreate your domains and applications.

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For more information, see "Domain Configuration Files" in *Understanding Domain Configuration for Oracle WebLogic Server*

## 1.3 About Templates

In the context of the Configuration Wizard, the term *template* refers to a Java Archive (JAR) file, which contains the files and scripts required to create or extend a WebLogic domain. The types of templates that the Configuration Wizard uses to create or update WebLogic domains include:

- **Domain template:** This type of template defines the full set of resources within a WebLogic domain, including infrastructure components, applications, services, security options, and general environment and operating system options. You can create this type of template from an existing WebLogic domain by using the Domain Template Builder tool or the `pack` command. Subsequently, you can create a WebLogic domain based on the template by using the Configuration Wizard.

The product distribution includes a base WebLogic domain template. A domain template defines the core set of resources within a domain, including

- An Administration Server and basic configuration information
- Infrastructure components
- General environment and operating system requirements.

The domain templates provided by Oracle do not include sample applications, although domain templates that were created using the `pack` command may contain sample applications if they were installed in the domain that was packed. You can use a domain template to create a basic WebLogic domain, which you can then extend with applications and services, or additional product components.

- **Extension template:** Whereas a domain template can create a self-sufficient WebLogic domain, you use an extension template to add functionality to an existing domain. In the Configuration Wizard, before selecting the extension template to use, you must select the WebLogic domain you want to extend.
- **Reconfiguration template:** Reconfiguration templates are provided by Oracle to make it easier for you to update a domain that contains Fusion Middleware products. These templates are automatically applied, and your Fusion Middleware applications are automatically updated, when you use the Reconfiguration Wizard as part of the process for upgrading to a new version of WebLogic Server and Fusion Middleware products. The Reconfiguration Wizard detects which Fusion Middleware products are installed, and, if a reconfiguration template is available for a given product, automatically applies it. For more information, see "Reconfiguring WebLogic Domains" in *Upgrading Oracle WebLogic Server*.
- **Managed Server template:** This type of template defines the subset of resources within a WebLogic domain that are required to create a Managed Server domain on a remote machine. You can create this type of template by using the `pack` command.

The WebLogic Server product installation includes a set of predefined domain and extension templates. This set includes the base WebLogic domain template and various extension templates that allow you to add component features and samples to the base domain. For more information about these templates and how they relate to each other, see *Domain Template Reference*.

## 1.4 Additional Tools for Creating, Extending, and Managing WebLogic Domains

In addition to the Configuration Wizard, you can use the tools listed in [Table 1-3](#) to create, extend, and manage domains. You can also perform run-time configuration by using the consoles of the product components (for example, the WebLogic Server Administration Console).

**Table 1–3 Additional Tools for Creating, Extending, and Managing WebLogic Domains**

To do this	Use the following tools
Create a WebLogic domain or extend an existing domain	<ul style="list-style-type: none"> <li> <span style="display: inline-block; width: 1em; height: 1em; background-color: black; margin-right: 0.5em;"></span>           WebLogic Scripting Tool (WLST)            WLST is a command-line scripting interface that you can use to interact with and configure WebLogic Server instances and domains. When WLST is offline, it enables you to create a WebLogic domain or update an existing domain without connecting to a running WebLogic Server, supporting the same functionality as the Configuration Wizard.             For more information, see <i>Understanding the WebLogic Scripting Tool</i>.         </li> <li> <span style="display: inline-block; width: 1em; height: 1em; background-color: black; margin-right: 0.5em;"></span>           unpack command             You can use this command to create a WebLogic domain from the command line, by using a template that is compatible with your current installation. You cannot use <code>unpack</code> to extend an existing domain.             For more information, see <i>Creating Templates and Domains Using the Pack and Unpack Commands</i>.         </li> </ul>
Add applications and services, or modify existing settings	<ul style="list-style-type: none"> <li> <span style="display: inline-block; width: 1em; height: 1em; background-color: black; margin-right: 0.5em;"></span>           WebLogic Server Administration Console             For more information, see the <i>Oracle WebLogic Server Administration Console Online Help</i>.         </li> <li> <span style="display: inline-block; width: 1em; height: 1em; background-color: black; margin-right: 0.5em;"></span>           Other system administration tools, such as WLST, JMX, and Ant.             For more information, see "Summary of System Administration Tools and APIs" in <i>Understanding Oracle WebLogic Server</i>.         </li> </ul>
Manage and monitor the health and status of the domain	<ul style="list-style-type: none"> <li> <span style="display: inline-block; width: 1em; height: 1em; background-color: black; margin-right: 0.5em;"></span>           WebLogic Diagnostics Framework (WLDF)             For more information, see <i>Configuring and Using the Diagnostics Framework for Oracle WebLogic Server</i>.         </li> <li> <span style="display: inline-block; width: 1em; height: 1em; background-color: black; margin-right: 0.5em;"></span>           WebLogic Server Administration Console             For more information, see the <i>Oracle WebLogic Server Administration Console Online Help</i>.         </li> <li> <span style="display: inline-block; width: 1em; height: 1em; background-color: black; margin-right: 0.5em;"></span>           WebLogic Server Node Manager             For more information, see <i>Administering Server Startup and Shutdown for Oracle WebLogic Server</i> and <i>Administering Node Manager for Oracle WebLogic Server</i>.         </li> </ul>

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## Creating a WebLogic Domain

This chapter describes how to create a new WebLogic domain by using the Configuration Wizard in graphical mode. It also describes how to start the domain and the Administration Server.

It includes the following sections:

- [Section 2.1, "Before You Begin"](#)
- [Section 2.2, "Domain Creation Process"](#)
- [Section 2.3, "Starting the Configuration Wizard"](#)
- [Section 2.4, "Creating a WebLogic Domain in Graphical Mode"](#)
- [Section 2.5, "Starting the Administration Server"](#)
- [Section 2.6, "Running the Quick Start Configuration Wizard"](#)

### 2.1 Before You Begin

Prior to running the Configuration Wizard to create a domain on a UNIX or Linux operating system, if you have not already done so, set the `CONFIG_JVM_ARGS` environment variable to the following value:

```
-Djava.security.egd=file:/dev/urandom
```

This decreases the amount of time it takes for the Configuration Wizard to create or update a domain.

### 2.2 Domain Creation Process

The Configuration Wizard guides you through the process of creating a WebLogic domain for your target environment by selecting the product components to include in your domain, or by selecting template JAR files. If necessary, you can also customize the domain to suit your environment by adding and configuring Managed Servers, clusters, and machine definitions, or customizing predefined JDBC data sources and JMS file store directories.

[Table 2-1](#) shows the sequence of screens that are presented by the Configuration Wizard. The screens that you see depend on your domain requirements and whether or not you need to customize your domain.

You may want to customize your domain in the following circumstances:

- To create a multi-server or clustered domain when using the default settings. All the predefined WebLogic Server templates (those delivered with WebLogic Server) create single-server domains.

- To use a database that is different from the default database in the domain or extension template. In this case, you must customize the JDBC settings to point to the appropriate database.
- To customize the listen port and the SSL port.
- To create a test environment by using a domain template that you received, and to modify the domain configuration to work in the test environment based on your requirements.

## 2.3 Starting the Configuration Wizard

The console for the machine on which the product installation resides must support Java-based GUIs. All Windows-based consoles support Java-based GUIs; only a subset of UNIX-based consoles support Java-based GUIs.

You can start the Configuration Wizard in graphical mode from either the Windows **Start** menu or from the command line.

- To start the Configuration Wizard in graphical mode on a Windows platform, choose **Start > All Programs > Oracle > Oracle Home > WebLogic Server *version* > Tools > Configuration Wizard**.
- To start the Configuration Wizard in graphical mode from a Windows command prompt or on UNIX systems:

1. Log in to the system on which the product is installed.
2. Open an MS-DOS command prompt window (on Windows) or a command shell (on UNIX).

3. Go to the following directory:

On Windows: *MWHOME*\oracle\_common\common\bin

On UNIX: *MWHOME*/oracle\_common/common/bin

Replace *MWHOME* with the Fusion Middleware home directory.

4. Execute the following command:

On Windows: `config.cmd`

On UNIX: `sh config.sh`

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**Notes:** When you run the `config.cmd` or `config.sh` command, the following error message might be displayed to indicate that the default cache directory is not valid:

```
*sys-package-mgr*: can't create package cache dir
```

You can change the cache directory by including the `-Dpython.cachedir=valid_directory` option in the command line.

To create a log file of the Configuration Wizard session, include the `-log=config.log -log_priority=debug` parameter in the command. You can specify any file name for the log file, such as `config_today.log`. The log file is stored in the `logs` directory of the Oracle Middleware home directory.

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The [Configuration Type](#) screen is displayed.



## 2.4 Creating a WebLogic Domain in Graphical Mode

To create a new WebLogic Domain by using the Configuration Wizard in graphical mode, start the Configuration Wizard as described in [Section 2.3, "Starting the Configuration Wizard."](#)

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**Note:** In situations where you cannot run the Configuration Wizard in GUI mode, Oracle recommends that you use a WLST script to create or extend a domain. For more information, see "Creating and Using a Domain Template (Offline)" in *Understanding the WebLogic Scripting Tool*.

If your installation includes Fusion Middleware products, refer to [Chapter 4, "Configuring Fusion Middleware Domains,"](#) for instructions. Fusion Middleware product configuration includes additional Configuration Wizard screens that are not included in the workflow in this chapter.

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The Configuration Wizard displays a sequence of screens, in the order listed in [Table 2–1](#). For more information on each screen, refer to the related section in [Chapter 5, "Configuration Wizard Screens,"](#) or click the link in the **Screen** column.

**Table 2–1 Configuration Screens for Creating a New WebLogic Domain**

Screen	When Does This Screen Appear?	Perform the Following Action
<a href="#">Configuration Type</a>	Always	Select <b>Create a new domain</b> .  In the <b>Domain Location</b> box, enter the path to the new domain, or click <b>Browse</b> to create the domain directory.  Click <b>Next</b> to continue.
<a href="#">Templates</a>	Always	Select the appropriate option: <ul style="list-style-type: none"> <li>▪ Select <b>Create Domain Using Product Templates</b>, and then select the check box for each product to include in the domain.</li> <li>▪ Select <b>Create Domain Using Custom Template</b>, and then click <b>Browse</b> to locate the domain template on your local drive or network.</li> </ul> Click <b>Next</b> to continue.
<a href="#">Application Location</a>	Only if one or more of the selected templates define an application.	Specify the directory in which the domain's applications are to be stored.  Click <b>Next</b> to continue.
<a href="#">Administrator Account</a>	Always	Specify the username and password for the domain's administrator account.  Click <b>Next</b> to continue.
<a href="#">Domain Mode and JDK</a>	Always	Select the startup mode to use.  Select the JDK to use in the domain or click <b>Browse</b> to navigate to the JDK you want to use.  Click <b>Next</b> to continue.

**Table 2–1 (Cont.) Configuration Screens for Creating a New WebLogic Domain**

Screen	When Does This Screen Appear?	Perform the Following Action
Data source configuration	Only if the domain includes components that require JDBC data sources, GridLink data sources, or Oracle RAC multi data sources	See <a href="#">Section 2.4.1, "Configuring Data Sources,"</a> for information about these screens.
<a href="#">Database Scripts</a>	Only if the selected products or template includes a set of SQL files organized by database type	Select the data sources for which you want to run the database scripts. Select the database version. Click <b>Run Scripts</b> . After running all necessary scripts, click <b>Next</b> to continue.
<a href="#">Advanced Configuration</a>	Always	Select the check box for each category (if any) for which you want to perform advanced configuration tasks  The available check boxes depend on the resources that are configured in the selected products or template. Click <b>Next</b> to continue.  See <a href="#">Section 2.4.2, "Advanced Configuration,"</a> for the screens that are displayed if you select all available options.
<a href="#">Configuration Summary</a>	Always	Review the configuration for your domain by selecting a Summary View, and then selecting individual items in the list for that view.  If the domain is configured as you want it, click <b>Create</b> to create the domain.  If you need to make changes to the configuration, click <b>Previous</b> to return to the appropriate screen for the settings you want to change.
<a href="#">Configuration Progress</a>	Always	Shows the progress of the domain creation. When the process completes, click <b>Next</b> .
<a href="#">Configuration Success</a>	Always	Review the domain creation results. Click <b>Finish</b> to exit the Configuration Wizard.

## 2.4.1 Configuring Data Sources

The screens described in this section are displayed in the Configuration Wizard only if the domain includes components that require JDBC data sources or Oracle RAC multi data sources. [Table 2–2](#) lists the sequences of data source screens. For more information on each screen, refer to the related section in [Chapter 5, "Configuration Wizard Screens,"](#) or click the link in the **Screen** column.

After configuring the screens described in this section, return to [Table 2–1](#).

**Table 2–2 Data Source Configuration Screens**

Screen	When Does This Screen Appear?	Perform the Following Action
JDBC Data Sources	Only if the domain includes components that require JDBC data sources	Select a data source to configure, and then do one of the following: <ul style="list-style-type: none"> <li>■ Configure the fields for the data source</li> <li>■ Select the <b>Convert to GridLink</b> option</li> <li>■ Select the <b>Convert to RAC multi data source</b> option</li> </ul> Click <b>Next</b> to continue.
GridLink Oracle RAC Data Sources	Only if the domain includes components that require JDBC data sources, and you selected the <b>Convert to GridLink</b> option for at least one data source on the Configure JDBC Data Source screen	Configure the fields for the Gridlink RAC data source, including the Service Name, Service Instance, ONS Host, wallet file, and wallet password. Click <b>Next</b> to continue.
Oracle RAC Multi Data Sources	Only if the domain includes components that require JDBC data sources, and you selected the <b>Convert to RAC multi data source</b> option for at least one data source on the Configure JDBC Data Source screen	Configure the fields for the Oracle RAC multi data source, including the Oracle RAC host name, instance name, and port. Click <b>Next</b> to continue.
JDBC Data Sources Test	Only if the domain includes components that require JDBC data sources	Select the data sources to test, and click <b>Test Connection</b> . Wait for the connection test(s) to complete.  <b>Note:</b> In order to test connections, the database to which you are trying to connect must be running.  If you do not want to test connections at this time, deselect all data sources.  Click <b>Next</b> to continue.

## 2.4.2 Advanced Configuration

This section describes the sequence of screens that is displayed if you select the options listed on [Advanced Configuration](#) screen.

**Table 2–3 Advanced Configuration Screens**

Screen	When Does This Screen Appear?	Perform the Following Action
Administration Server	Only if you selected <b>Administration Server</b> on the Advanced Configuration screen	Change the settings for the Administration Server as needed. Click <b>Next</b> to continue.
Node Manager	Only if you selected <b>Node Manager</b> on the Advanced Configuration screen	Select the <b>Node Manager Type</b> . Enter the username and password for accessing the Node Manager. Click <b>Next</b> to continue.

**Table 2–3 (Cont.) Advanced Configuration Screens**

Screen	When Does This Screen Appear?	Perform the Following Action
Managed Servers	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Advanced Configuration screen	Add, delete, clone, or reconfigure Managed Servers as needed. Click <b>Next</b> to continue.
Clusters	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Advanced Configuration screen	Add, delete, or reconfigure clusters as needed. Click <b>Next</b> to continue.
Assign Servers to Clusters	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Advanced Configuration screen, and your domain includes at least one cluster	Add servers to or remove servers from the clusters in your domain. Click <b>Next</b> to continue.
HTTP Proxy Applications	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Advanced Configuration screen, and your domain includes at least one cluster, and at least one Managed Server that is not assigned to a cluster	For each cluster, specify whether or not you want to create an HTTP proxy application for the cluster. If you select the <b>Create HTTP Proxy</b> check box for a cluster, select the proxy server to use for that cluster. a Click <b>Next</b> to continue.
Coherence Clusters	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Advanced Configuration screen, and Coherence is installed with WebLogic Server	Accept the default cluster name or type a new name for the Coherence cluster. Enter the port number to use as the Coherence cluster listen port. Click <b>Next</b> to continue.
Machines	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Advanced Configuration screen	Select the <b>Machine</b> tab (Windows) or <b>Unix Machine</b> tab (UNIX). Add machines as needed. Configure the settings for each machine. Click <b>Next</b> to continue.
Assign Servers to Machines	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Advanced Configuration screen, and there is at least one machine configured in the domain	Assign the Administration Server and Managed Servers to the appropriate machines. Click <b>Next</b> to continue.

**Table 2–3 (Cont.) Advanced Configuration Screens**

Screen	When Does This Screen Appear?	Perform the Following Action
<a href="#">Deployments Targeting</a>	Only if you selected <b>Deployments and Services</b> on the Advanced Configuration screen, and a selected product or template contains J2EE applications or libraries	Select the target server or cluster on which you want to deploy applications or libraries. Select the check box for each application or library you want to deploy on the selected target. Click <b>Next</b> to continue.
<a href="#">Services Targeting</a>	Only if you selected <b>Deployments and Services</b> on the Advanced Configuration screen	Select the target server or cluster. Select the check box for each service you want to target to it. Click <b>Next</b> to continue.
<a href="#">JMS File Stores</a>	Only if you selected <b>JMS File Store</b> on the Advanced Configuration screen	Change the settings for each JMS file store as needed, and select the synchronous write policy for each file store. Click <b>Next</b> to continue.

## 2.5 Starting the Administration Server

When you finish creating your domain, you can start the Administration Server. For more information on the various methods you can use to start the Administration Server, see "Starting and Stopping Servers" in *Administering Server Startup and Shutdown for Oracle WebLogic Server*.

## 2.6 Running the Quick Start Configuration Wizard

The Quick Start Configuration Wizard can be used only to:

- Configure the various sample domains, such as MedRec and the Examples Server, in your WebLogic Server installation. In this case, to run the wizard, select the **Automatically Launch Quick Start Configuration Wizard** option on the Installation Complete screen of the WebLogic Server installer.
- Configure Fusion Middleware product domains, only if you want to use the Derby (JavaDB) database driver for the domain. In this case, run the wizard manually as described in this section. Schema JARs that are provided with the product will be used to populate a `domain_home/common/db` directory.

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**Note:** The Quick Start Configuration Wizard supports only the Derby (JavaDB) database driver. If you are using another database, you cannot use the Quick Start Configuration Wizard to create your domain.

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Prior to manually running the Configuration Wizard in Quick Start mode, you must set the `CONFIG_JVM_ARGS` environment variable to specify the full path and JAR file name for each template that you want to use for the domain. For the location and filename of templates provided by Oracle for WebLogic Server and other Fusion Middleware products, see the *Domain Template Reference*.

## Windows

To set `CONFIG_JVM_ARGS` on a Windows system:

```
set CONFIG_JVM_ARGS="-DuserTemplates=template1,template2,template3, ...,
templaten"
```

The following example uses the WebLogic Server base domain template and the Web Services JAX-WS template to create the domain:

```
set CONFIG_JVM_ARGS="-DuserTemplates=C:/Oracle/Middleware/wlserver/common/
templates/wls/wls.jar,C:/Oracle/Middleware/wlserver/common/templates/
wls/wls_webservice_jaxws.jar"
```

To run the Configuration Wizard in Quick Start mode on Windows systems, enter the following commands, where `ORACLE_HOME` is your Oracle home directory:

```
cd ORACLE_HOME/oracle_common/common/bin
config.cmd -target=config-oneclick
```

## UNIX

To set `CONFIG_JVM_ARGS` on a UNIX or Linux system:

```
export CONFIG_JVM_ARGS="-DuserTemplates=template1,template2,template3, ...,
templaten"
```

The following example uses the WebLogic Server base domain template and the Web Services JAX-WS template to create the domain:

```
export CONFIG_JVM_ARGS="-DuserTemplates=/Oracle/Middleware/wlserver/common/
templates/wls/wls.jar,/Oracle/Middleware/wlserver/common/templates/
wls/wls_webservice_jaxws.jar"
```

To run the Configuration Wizard in Quick Start mode on UNIX systems, enter the following commands, where `ORACLE_HOME` is your Oracle home directory:

```
cd ORACLE_HOME/oracle_common/common/bin
config.sh -target=config-oneclick
```

shows the sequence of screens that are presented by the Quick Start Configuration Wizard:

**Table 2–4 Quick Start Configuration Screens**

No.	Screen	When Does This Screen Appear?	Perform the Following Action
1	Configuration	Always	Complete all fields and selections, and then click <b>Create</b> .
2	Configuration Progress	Always	Shows the progress of the domain creation. When the process completes, click <b>Next</b> .
3	Configuration Success	Always	Review the domain creation results. Click <b>Finish</b> to exit the Configuration Wizard.

### 2.6.1 Using Quick Start to Create the WebLogic Sample Domains

If you included the WebLogic samples during the WebLogic installation, but did not select the option to run the Quick Start Wizard at the end of the installation to create the three sample domains, you can create the sample domains at a later time by running the Quick Start Wizard from the command line.

In this case, you must create the sample domains one at a time. This requires you to run the Quick Start Wizard three times to create all three domains.

Refer to [Table 2–5](#) for the templates that you must include in the `CONFIG_JVM_ARGS` variable to create each domain. For example, to create the WebLogic Server Examples domain, enter the following commands, substituting your WebLogic Server home directory for `WL_HOME`:

```
set CONFIG_JVM_ARGS="-DuserTemplates=WL_HOME/common/
templates/wls/wls.jar, WL_HOME/common/templates/wls/wls_default.jar,
WL_HOME/common/templates/wls/wls_examples_jaxws.jar"

cd ORACLE_HOME/oracle_common/common/bin
config.sh -target=config-oneclick
```

**Table 2–5 Templates Required for WebLogic Sample Domains**

To create this domain ...	Include these templates ...
MedRec (Avitek Medical Records Sample Domain)	<code>WL_HOME/common/templates/wls/wls.jar</code> <code>WL_HOME/common/templates/wls/medrec.jar</code>
MedRec Spring (Avitek Medical Records Sample Domain for Spring)	<code>WL_HOME/common/templates/wls/wls.jar</code> <code>WL_HOME/common/templates/wls/medrec_spring.jar</code>
WebLogic Server Examples	<code>WL_HOME/common/templates/wls/wls.jar</code> <code>WL_HOME/common/templates/wls/wls_default.jar</code> <code>WL_HOME/common/templates/wls/wls_examples.jar</code>





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## Updating WebLogic Domains

This chapter describes how to use the Configuration Wizard to update a WebLogic domain. It also describes how to update startup scripts on remote servers.

You can add product component functionality or additional applications and services to an existing WebLogic domain by updating it using the Configuration Wizard. For example, if you created a base WebLogic domain and you want to add the Avitek Medical Records Examples functionality, you can update the domain by using the `medrec.jar` template. You can also use the Configuration Wizard to change your domain configuration without adding additional applications. For example, you may want to add additional Managed Servers and clusters, or you may want to change service targeting or migratable target settings.

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**Note:** You can only update a domain that was created by the same WebLogic Server installation from which you run the Configuration Wizard. That is, the domain you are updating must be registered in the `domain-registry.xml` file of your WebLogic Server installation. You cannot update a domain that was created by another WebLogic Server installation.

Prior to updating a domain that was created with an earlier release of WebLogic Server, you must use the Reconfiguration Wizard to reconfigure the domain. Doing so updates the domain to be compatible with the current WebLogic Server release, and registers the domain in your current WebLogic Server installation. For more information, see "Reconfiguring WebLogic Domains" in *Upgrading Oracle WebLogic Server*.

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The Configuration Wizard simplifies the task of updating an existing WebLogic domain by using extension templates. Oracle provides various sample extension templates, as well as extension templates for various Fusion Middleware products. You can also create your own extension templates using WLST or the `unpack` command.

For information about extension templates provided by Oracle, see the *Domain Template Reference*.

This chapter contains the following sections:

- [Section 3.1, "Before You Begin"](#)
- [Section 3.2, "Domain Update Process"](#)
- [Section 3.3, "Updating a WebLogic Domain in Graphical Mode"](#)

- [Section 3.4, "Updating Startup Scripts on Remote Servers"](#)

## 3.1 Before You Begin

Prior to running the Configuration Wizard to update a domain on a UNIX or Linux operating system, if you have not already done so, set the `CONFIG_JVM_ARGS` environment variable to the following value:

```
-Djava.security.egd=file:/dev/urandom
```

This decreases the amount of time it takes for the Configuration Wizard to create or update a domain.

## 3.2 Domain Update Process

To update a WebLogic domain, select the domain to update and, if you want to add additional products to the domain, select one or more additional product components on the [Templates](#) screen. Alternatively, you can update an existing domain by specifying an extension template JAR file that includes additional applications and services, or defines additional components (such as Managed Servers and clusters). You can also customize the JDBC connections and change the JMS file store. The Configuration Wizard uses your input to update the configuration files, such as `config.xml`, and all other generated components in the domain directory, as required.

## 3.3 Updating a WebLogic Domain in Graphical Mode

To update a new WebLogic Domain by using the Configuration Wizard in graphical mode, start the Configuration Wizard as described in [Section 2.3, "Starting the Configuration Wizard."](#)

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**Note:** In situations where you cannot run the Configuration Wizard in GUI mode, Oracle recommends that you use a WLST script to create or update a domain. For more information, see "Creating and Using a Domain Template (Offline)" in *Understanding the WebLogic Scripting Tool*.

If your installation includes Fusion Middleware products, refer to [Chapter 4, "Configuring Fusion Middleware Domains,"](#) for instructions. Fusion Middleware product configuration includes additional Configuration Wizard screens that are not included in the workflow in this chapter.

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The Configuration Wizard displays a sequence of screens, in the order listed in [Table 3–1](#). For more information on each screen, refer to the related section in [Chapter 5, "Configuration Wizard Screens,"](#) or click the link in the **Screen** column.

**Table 3–1 Configuration Screens for Extending an Existing WebLogic Domain**

Screen	When Does This Screen Appear?	Perform the Following Action
Configuration Type	Always	<p>Select <b>Update an Existing Domain</b>.</p> <p>Select the domain directory from the <b>Existing Domain Directory</b> drop-down list, or click <b>Browse</b> to navigate to and select the domain directory.</p> <p>Click <b>Next</b> to continue.</p>
Templates	Always	<p>Do one of the following:</p> <ul style="list-style-type: none"> <li>▪ Select <b>Update Domain Using Product Templates</b>, and then select the check box for each product to add to the domain.</li> <li>▪ Select <b>Update Domain Using Custom Template</b>, and then click <b>Browse</b> to locate the template on your local drive or network.</li> </ul> <p>Click <b>Next</b> to continue.</p>
Application Location	Only if one or more of the selected templates define an application.	<p>Specify the directory in which the domain's applications are to be stored.</p> <p>Click <b>Next</b> to continue.</p>
Data source configuration	Only if the selected products or template includes components that require JDBC data sources or Oracle RAC multi data sources	See <a href="#">Section 2.4.1, "Configuring Data Sources,"</a> for information about these screens.
Advanced Configuration	Always	<p>Select the check box for each category (if any) for which you want to perform advanced configuration tasks</p> <p>The available check boxes depend on the resources that are configured in the selected products or template.</p> <p><b>Note:</b> When extending a domain, you cannot change the Administration Server and Node Manager configurations. Therefore, these options are not available.</p> <p>Click <b>Next</b> to continue.</p>
Managed Servers	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Select Advanced Configuration screen	<p>Add, delete, or reconfigure Managed Servers as needed.</p> <p>Click <b>Next</b> to continue.</p>
Clusters	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Select Advanced Configuration screen	<p>Add, delete, or reconfigure clusters as needed.</p> <p>Click <b>Next</b> to continue.</p>

**Table 3–1 (Cont.) Configuration Screens for Extending an Existing WebLogic Domain**

Screen	When Does This Screen Appear?	Perform the Following Action
<a href="#">Assign Servers to Clusters</a>	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Select Advanced Configuration screen, and your domain includes at least one cluster	Add servers to or remove servers from the clusters in your domain. Click <b>Next</b> to continue.
<a href="#">HTTP Proxy Applications</a>	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Select Advanced Configuration screen, and your domain includes at least one cluster, and at least one Managed Server that is not assigned to a cluster	For each cluster, specify whether or not you want to create an HTTP proxy application for the cluster. If you select the <b>Create HTTP Proxy</b> check box for a cluster, select the proxy server to use for that cluster. a Click <b>Next</b> to continue.
<a href="#">Coherence Clusters</a>	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Advanced Configuration screen, and Coherence is installed with WebLogic Server	Accept the default cluster name or type a new name for the Coherence cluster. Enter the port number to use as the Coherence cluster listen port. Click <b>Next</b> to continue.
<a href="#">Machines</a>	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Select Advanced Configuration screen.	Add, delete, or reconfigure machines as needed. Click <b>Next</b> to continue.
<a href="#">Assign Servers to Machines</a>	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Select Advanced Configuration screen, and there is at least on machine configured in the domain	Assign the Administration Server and Managed Servers to the appropriate machines. Click <b>Next</b> to continue.
<a href="#">System Components</a>	Only if a system component, such as OHS, is installed.	Click <b>Add</b> to add system components to the domain. Configure each system component. Click <b>Next</b> to continue.
<a href="#">OHS Server</a>	Only if OHS is installed. <b>Note:</b> A similar screen is displayed for other installed system components.	Select a system component to configure. Specify the settings for that component. Click <b>Next</b> to continue.
<a href="#">Assign System Components to Machines</a>	Only if a system component, such as OHS, is installed.	Assign the system component servers to the appropriate machines. Click <b>Next</b> to continue.

**Table 3–1 (Cont.) Configuration Screens for Extending an Existing WebLogic Domain**

Screen	When Does This Screen Appear?	Perform the Following Action
Deployments Targeting	Only if you selected <b>Deployments and Services</b> on the Select Advanced Configuration screen, and a selected product or template contains J2EE applications or libraries	Select the target server or cluster on which you want to deploy applications or libraries. Select the check box for each application or library you want to deploy on the selected target. Click <b>Next</b> to continue.
Services Targeting	Only if you selected <b>Deployments and Services</b> on the Select Advanced Configuration screen	Select the target server or cluster. Select the check box for each service you want to target to it. Click <b>Next</b> to continue.
JMS File Stores	Only if you selected <b>JMS File Store</b> on the Select Advanced Configuration screen	Change the settings for each JMS file store as needed, and select the synchronous write policy for each file store. Click <b>Next</b> to continue.
Configuration Summary	Always	Review the configuration for your domain by selecting a Summary View, and then selecting individual items in the list for that view.  If the domain is configured as you want it, click <b>Update</b> to extend the domain.  If you need to make changes to the configuration, click <b>Previous</b> to return to the appropriate screen for the settings you want to change.
Configuration Progress	Always	Shows the progress of the domain creation. When the process completes, click <b>Next</b> .
Configuration Success	Always	Click <b>Finish</b> to exit the Configuration Wizard.

### 3.4 Updating Startup Scripts on Remote Servers

When you update a WebLogic domain in which the Managed Servers are distributed (by using the `pack` and `unpack` commands) to remote machines, the startup scripts on the remote machines are not updated automatically.

To ensure that startup scripts on the remote machines are updated, perform the following steps after updating the domain:

1. Delete the Managed Server directories on the remote machines.
2. Create a Managed Server template from the updated domain by using the `pack` command with the `-managed=true` option.
3. Create Managed Servers on the remote machines by using the `unpack` command to unpack the Managed Server template.

For more information about the `pack` and `unpack` commands, see *Creating Templates and Domains Using the Pack and Unpack Commands*.



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## Configuring Fusion Middleware Domains

This chapter describes the configuration wizard workflow for WebLogic Server installations in which other Fusion Middleware products are also installed in the same Oracle home.

This chapter contains the following sections:

- [Section 4.1, "Creating a WebLogic Domain for Fusion Middleware Products"](#)
- [Section 4.2, "Updating a WebLogic Domain That Includes Fusion Middleware Products"](#)

### 4.1 Creating a WebLogic Domain for Fusion Middleware Products

To create a new WebLogic domain which includes Fusion Middleware products installed with WebLogic Server, start the Configuration Wizard as described in [Section 2.3, "Starting the Configuration Wizard."](#)

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**Note:** In situations where you cannot run the Configuration Wizard in GUI mode, Oracle recommends that you use a WLST script to create or extend a domain. For more information, see "Creating and Using a Domain Template (Offline)" in *Understanding the WebLogic Scripting Tool*.

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The Configuration Wizard displays a sequence of screens, in the order listed in [Table 4–1](#). For more information on each screen, refer to the related section in [Chapter 5, "Configuration Wizard Screens,"](#) or click the link in the **Screen** column.

**Table 4–1** Configuration Screens for Creating a New WebLogic Domain

Screen	When Does This Screen Appear?	Perform the Following Action
<a href="#">Configuration Type</a>	Always	Select <b>Create a new domain</b> .  In the <b>Domain Location</b> box, enter the path to the new domain, or click <b>Browse</b> to create the domain directory.  Click <b>Next</b> to continue.

**Table 4–1 (Cont.) Configuration Screens for Creating a New WebLogic Domain**

Screen	When Does This Screen Appear?	Perform the Following Action
<a href="#">Templates</a>	Always	<p>Do one of the following:</p> <ul style="list-style-type: none"> <li>▪ Select <b>Create Domain Using Product Templates</b>, and then select the check box for each product to include in the domain.</li> <li>▪ Select <b>Create Domain Using Custom Template</b>, and then click <b>Browse</b> to locate the template on your local drive or network.</li> </ul> <p>Click <b>Next</b> to continue.</p>
<a href="#">Application Location</a>	Only if one or more of the selected templates define an application.	<p>Specify the directory in which the domain's applications are to be stored.</p> <p>Click <b>Next</b> to continue.</p>
<a href="#">Administrator Account</a>	Always	<p>Specify the username and password for the domain's administrator account.</p> <p>Click <b>Next</b> to continue.</p>
<a href="#">Domain Mode and JDK</a>	Always	<p>Select the startup mode to use.</p> <p>Select the JDK to use in the domain or click <b>Browse</b> to navigate to the JDK you want to use.</p> <p>Click <b>Next</b> to continue.</p>
<a href="#">Database Configuration Type</a>	Only if the domain includes components that require the use of the Oracle Fusion Middleware Repository Creation Utility (RCU) to load database schemas	<p>Select whether you want to use RCU parameters for schema configuration, or you want to manually configure the schemas.</p> <p>If you elect to use RCU parameters, complete the fields on the screen and click <b>Get RCU Configuration</b>.</p> <p>Click <b>Next</b> to continue.</p>
<a href="#">Schema configuration</a>	Only if the domain includes components that require the use of the Oracle Fusion Middleware Repository Creation Utility (RCU) to load database schemas	<p>See <a href="#">Section 4.1.1, "Configuring Schemas,"</a> for information about these screens.</p>
<a href="#">Data source configuration</a>	Only if the domain includes components that require JDBC data sources or Oracle RAC multi data sources	<p>See <a href="#">Section 4.1.2, "Configuring Data Sources,"</a> for information about these screens.</p>
<a href="#">Credentials</a>	Only if a selected template includes definitions for OPSS security credentials	<p>Specify the username and password for each security store/key.</p> <p>Click <b>Next</b> to continue.</p>



**Table 4–1 (Cont.) Configuration Screens for Creating a New WebLogic Domain**

Screen	When Does This Screen Appear?	Perform the Following Action
Keystore	Only if a selected template includes a definition for an OPSS keystore	Select the security store/key to configure. In the top table, enter the path for the trusted certificate to use. In the bottom table, enter the path for the private key and the password for the private key. Repeat for each store/key. When done, click <b>Next</b> to continue.
Advanced Configuration	Always	Select the check box for each category (if any) for which you want to perform advanced configuration tasks The available check boxes depend on the resources that are configured in the selected products or template. Click <b>Next</b> to continue.
Administration Server	Only if you selected <b>Administration Server</b> on the Select Advanced Configuration screen	Change the settings for the Administration Server as needed. Click <b>Next</b> to continue.
Node Manager	Only if you selected <b>Node Manager</b> on the Select Advanced Configuration screen	Select the <b>Node Manager Type</b> . Enter the username and password for accessing the Node Manager. Click <b>Next</b> to continue.
Managed Servers	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Select Advanced Configuration screen	Add, delete, clone, or reconfigure Managed Servers as needed. Click <b>Next</b> to continue.
Clusters	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Select Advanced Configuration screen	Add, delete, or reconfigure clusters as needed. Click <b>Next</b> to continue.
Assign Servers to Clusters	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Select Advanced Configuration screen, and your domain includes at least one cluster	Add servers to or remove servers from the clusters in your domain. Click <b>Next</b> to continue.
HTTP Proxy Applications	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Select Advanced Configuration screen, and your domain includes at least one cluster, and at least one Managed Server that is not assigned to a cluster	For each cluster, specify whether or not you want to create an HTTP proxy application for the cluster. If you select the <b>Create HTTP Proxy</b> check box for a cluster, select the proxy server to use for that cluster. a Click <b>Next</b> to continue.

**Table 4–1 (Cont.) Configuration Screens for Creating a New WebLogic Domain**

Screen	When Does This Screen Appear?	Perform the Following Action
Coherence Clusters	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Advanced Configuration screen, and Coherence is installed with WebLogic Server	Accept the default cluster name or type a new name for the Coherence cluster. Enter the port number to use as the Coherence cluster listen port. Click <b>Next</b> to continue.
Machines	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Advanced Configuration screen	Select the <b>Machine</b> tab (Windows) or <b>Unix Machine</b> tab (UNIX). Add machines as needed. Configure the settings for each machine. Click <b>Next</b> to continue.
Assign Servers to Machines	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Select Advanced Configuration screen, and there is at least one machine configured in the domain	Assign the Administration Server and Managed Servers to the appropriate machines. Click <b>Next</b> to continue.
System Components	Only if a system component, such as OHS or OID, is installed.	Click <b>Add</b> to add system components to the domain. Configure each system component. Click <b>Next</b> to continue.
OHS Server	Only if OHS is installed.	Select an OHS server to configure. Specify the settings for that server. Repeat for each server. Click <b>Next</b> to continue.
ODI Server Configuration	Only if ODI is installed.	Select the ODI server to configure. Specify the settings for that server. Repeat for each server. Click <b>Next</b> to continue.
Assign System Components to Machines	Only if a system component, such as OHS or OID, is installed.	Assign the system component servers to the appropriate machines. Click <b>Next</b> to continue.
Deployments Targeting	Only if you selected <b>Deployments and Services</b> on the Select Advanced Configuration screen, and a selected product or template contains J2EE applications or libraries	Select the target server or cluster on which you want to deploy applications or libraries. Select the check box for each application or library you want to deploy on the selected target. Click <b>Next</b> to continue.
Services Targeting	Only if you selected <b>Deployments and Services</b> on the Select Advanced Configuration screen	Select the target server or cluster. Select the check box for each service you want to target to it. Click <b>Next</b> to continue.

**Table 4–1 (Cont.) Configuration Screens for Creating a New WebLogic Domain**

Screen	When Does This Screen Appear?	Perform the Following Action
<a href="#">JMS File Stores</a>	Only if you selected <b>JMS File Store</b> on the Select Advanced Configuration screen	Change the settings for each JMS file store as needed, and select the synchronous write policy for each file store. Click <b>Next</b> to continue.
<a href="#">Configuration Summary</a>	Always	Review the configuration for your domain by selecting a Summary View, and then selecting individual items in the list for that view.  If the domain is configured as you want it, click <b>Create</b> to create the domain.  If you need to make changes to the configuration, click <b>Previous</b> to return to the appropriate screen for the settings you want to change.
<a href="#">Configuration Progress</a>	Always	Shows the progress of the domain creation. When the process completes, click <b>Next</b> .
<a href="#">Configuration Success</a>	Always	Review the domain creation results. Click <b>Finish</b> to exit the Configuration Wizard.

### 4.1.1 Configuring Schemas

The screens described in this section are displayed in the Configuration Wizard only if the domain includes components that require the use of the Oracle Fusion Middleware Repository Creation Utility (RCU) to load database schemas. [Table 4–2](#) lists the sequences of schema-related screens. For more information on each screen, refer to the related section in [Chapter 5, "Configuration Wizard Screens,"](#) or click the link in the **Screen** column.

After configuring the screens in this section, return to row 9 in [Table 4–2](#).

**Table 4–2 Schema Configuration Screens**

Screen	When Does This Screen Appear?	Perform the Following Action
<a href="#">Database Configuration Type</a>	Only if the domain includes components that require the use of the Oracle Fusion Middleware Repository Creation Utility (RCU) to load database schemas	Enter connection information for connecting to the database server from which service table information is to be retrieved. Click <b>Next</b> to continue.

**Table 4–2 (Cont.) Schema Configuration Screens**

Screen	When Does This Screen Appear?	Perform the Following Action
JDBC Component Schema	<p>Only if the domain includes components that require the use of the Oracle Fusion Middleware Repository Creation Utility (RCU) to load database schemas</p> <p>There are two versions of this screen, depending on whether or not the selected templates contain multi data source definitions or GridLink data source definitions.</p>	<p>Configure the schema owner and password for each component schema listed on this screen. Changes to any of the fields on this screen are applied to all selected component schemas in the table.</p> <p>For example, if all of your schemas reside on the same database, select all of the schemas in the table, then specify the appropriate database values for the schemas (DBMS/Service, Host Name, and Port).</p> <p>If, for example, you have a different password for each schema, then you must select each schema individually and specify the password for the selected schema only.</p> <p>Click <b>Next</b> to continue.</p>
GridLink Oracle RAC Component Schema	<p>Only if the domain includes components that require the use of the Oracle Fusion Middleware Repository Creation Utility (RCU) to load database schemas, and you selected the <b>Convert to GridLink</b> option</p>	<p>Configure the schema owner and password for each component schema listed on this screen. Changes to any of the fields on this screen are applied to all selected component schemas in the table.</p> <p>For example, if all of your schemas reside on the same database, select all of the schemas in the table, then specify the appropriate database values for the schemas (including Service Name, Service Instance, ONS Host, wallet file, and wallet password).</p> <p>If, for example, you have a different password for each schema, then you must select each schema individually and specify the password for the selected schema only.</p> <p>Click <b>Next</b> to continue.</p>
Oracle RAC Multi Data Source Component Schema	<p>Only if the domain includes components that require the use of the Oracle Fusion Middleware Repository Creation Utility (RCU) to load database schemas, and you selected the <b>Convert to RAC multi data source</b> option</p>	<p>Configure the schema owner and password for each component schema listed on this screen. Changes to any of the fields on this screen are applied to all selected component schemas in the table.</p> <p>For example, if all of your schemas reside on the same database, select all of the schemas in the table, then specify the appropriate database values for the schemas (Service Name, Host Name, Instance Name, and Port).</p> <p>If, for example, you have a different password for each schema, then you must select each schema individually and specify the password for the selected schema only.</p> <p>Click <b>Next</b> to continue.</p>
Test Component Schema	<p>Only if the domain includes components that require the use of the Oracle Fusion Middleware Repository Creation Utility (RCU) to load database schema</p>	<p>Test the configurations that you specified for the data sources in the previous screen.</p> <p>Click <b>Next</b> to continue.</p>

After configuring the screens described in this section, return to [Table 4-1](#).

## 4.1.2 Configuring Data Sources

The screens described in this section are displayed in the Configuration Wizard only if the domain includes components that require JDBC data sources or Oracle RAC multi data sources. [Table 4-3](#) lists the sequences of schema-related screens. For more information on each screen, refer to the related section in [Chapter 5, "Configuration Wizard Screens,"](#) or click the link in the **Screen** column.

**Table 4-3 Data Source Configuration Screens**

Screen	When Does This Screen Appear?	Perform the Following Action
<a href="#">JDBC Data Sources</a>	Only if the domain includes components that require JDBC data sources	Select a data source to configure, and then do one of the following: <ul style="list-style-type: none"> <li>■ Configure the fields for the data source</li> <li>■ Select the <b>Configure selected data sources as RAC multi data sources</b> option</li> </ul> Click <b>Next</b> to continue.
<a href="#">GridLink Oracle RAC Data Sources</a>	Only if the domain includes components that require JDBC data sources, and you selected the <b>Convert to GridLink</b> option for at least on data source on the Configure JDBC Data Source screen	Configure the fields for the Gridlink RAC data source, including the Service Name, Service Instance, ONS Host, wallet file, and wallet password. Click <b>Next</b> to continue.
<a href="#">Oracle RAC Multi Data Sources</a>	Only if the domain includes components that require JDBC data sources, and you selected the <b>Convert to RAC multi data source</b> option for at least on data source on the Configure JDBC Data Source screen	Configure the fields for the Oracle RAC multi data source, including the Oracle RAC host name, instance name, and port. Click <b>Next</b> to continue.
<a href="#">JDBC Data Sources Test</a>	Only if the domain includes components that require JDBC data sources	Select the data sources to test, and click <b>Test Connection</b> . Wait for the connection test(s) to complete. <b>Note:</b> In order to test connections, the database to which you are trying to connect must be running. If you do not want to test connections at this time, deselect all data sources. Click <b>Next</b> to continue.
<a href="#">Database Scripts</a>	Only if the selected products or template includes a set of SQL files organized by database type	Select the data sources for which you want to run the database scripts. Select the database version. Click <b>Run Scripts</b> . After running all necessary scripts, click <b>Next</b> to continue.

## 4.2 Updating a WebLogic Domain That Includes Fusion Middleware Products

To update a new WebLogic Domain that includes Fusion Middleware products, start the Configuration Wizard as described in [Section 2.3, "Starting the Configuration Wizard."](#)

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**Note:** In situations where you cannot run the Configuration Wizard in GUI mode, Oracle recommends that you use a WLST script to create or update a domain. For more information, see "Creating and Using a Domain Template (Offline)" in *Understanding the WebLogic Scripting Tool*.

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The Configuration Wizard displays a sequence of screens, in the order listed in [Table 4–4](#). For more information on each screen, refer to the related section in [Chapter 5, "Configuration Wizard Screens,"](#) or click the link in the **Screen** column.

**Table 4–4 Configuration Screens for Updating an Existing WebLogic Domain**

Screen	When Does This Screen Appear?	Perform the Following Action
<a href="#">Configuration Type</a>	Always	Select <b>Update an Existing Domain</b> . Select the domain directory from the <b>Existing Domain Directory</b> drop-down list, or click <b>Browse</b> to navigate to and select the domain directory. Click <b>Next</b> to continue.
<a href="#">Templates</a>	Always	Do one of the following: <ul style="list-style-type: none"> <li>■ Select <b>Update Domain Using Product Templates</b>, and then select the check box for each product to add to the domain.</li> <li>■ Select <b>Update Domain Using Custom Template</b>, and then click <b>Browse</b> to locate the template on your local drive or network.</li> </ul> Click <b>Next</b> to continue.
<a href="#">Application Location</a>	Only if one or more of the selected templates define an application.	Specify the directory in which the domain's applications are to be stored. Click <b>Next</b> to continue.
<a href="#">Database Configuration Type</a>	Only if the domain includes components that require the use of the Oracle Fusion Middleware Repository Creation Utility (RCU) to load database schemas	Select whether you want to use RCU parameters for schema configuration, or you want to manually configure the schemas. If you elect to use RCU parameters, complete the fields on the screen and click <b>Get Defaults</b> . Click <b>Next</b> to continue.
Schema configuration	Only if the selected products or template includes components that require the use of the Oracle Fusion Middleware Repository Creation Utility (RCU) to load database schemas	See <a href="#">Section 4.1.1, "Configuring Schemas,"</a> for information about these screens.

**Table 4–4 (Cont.) Configuration Screens for Updating an Existing WebLogic Domain**

Screen	When Does This Screen Appear?	Perform the Following Action
Data source configuration	Only if the selected products or template includes components that require JDBC data sources or Oracle RAC multi data sources	See <a href="#">Section 4.1.2, "Configuring Data Sources,"</a> for information about these screens.
<a href="#">Credentials</a>	Only if a selected template includes definitions for OPSS security credentials and keystores	Specify the username and password for each security store/key. Click <b>Next</b> to continue.
<a href="#">Keystore</a>	Only if a selected template includes definitions for OPSS security credentials and keystores,	Select the security store/key to configure. In the top table, enter the path for the trusted certificate to use. In the bottom table, enter the path for private key and the password for the private key. Repeat for each store/key. When done, click <b>Next</b> to continue.
<a href="#">Advanced Configuration</a>	Always	Select the check box for each category (if any) for which you want to perform advanced configuration tasks  The available check boxes depend on the resources that are configured in the selected products or template. <b>Note:</b> When extending a domain, the you cannot change the Administration Server and Node Manager configurations. Therefore, these options are not available. Click <b>Next</b> to continue.
<a href="#">Managed Servers</a>	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Select Advanced Configuration screen	Add, delete, or reconfigure Managed Servers as needed. Click <b>Next</b> to continue.
<a href="#">Clusters</a>	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Select Advanced Configuration screen	Add, delete, or reconfigure clusters as needed. Click <b>Next</b> to continue.
<a href="#">Assign Servers to Clusters</a>	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Select Advanced Configuration screen, and your domain includes at least one cluster	Add servers to or remove servers from the clusters in your domain. Click <b>Next</b> to continue.



**Table 4–4 (Cont.) Configuration Screens for Updating an Existing WebLogic Domain**

Screen	When Does This Screen Appear?	Perform the Following Action
<a href="#">HTTP Proxy Applications</a>	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Select Advanced Configuration screen, and your domain includes at least one cluster, and at least one Managed Server that is not assigned to a cluster	For each cluster, specify whether or not you want to create an HTTP proxy application for the cluster. If you select the <b>Create HTTP Proxy</b> check box for a cluster, select the proxy server to use for that cluster. a  Click <b>Next</b> to continue.
<a href="#">Machines</a>	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Select Advanced Configuration screen.	Add, delete, or reconfigure machines as needed.  Click <b>Next</b> to continue.
<a href="#">Assign Servers to Machines</a>	Only if you selected <b>Managed Servers, Clusters, and Coherence</b> on the Select Advanced Configuration screen, and there is at least one machine configured in the domain	Assign the Administration Server and Managed Servers to the appropriate machines.  Click <b>Next</b> to continue.
<a href="#">System Components</a>	Only if a system component, such as OHS, is installed.	Click <b>Add</b> to add system components to the domain.  Configure each system component.  Click <b>Next</b> to continue.
<a href="#">OHS Server</a>	Only if OHS is installed.  <b>Note:</b> A similar screen is displayed for other installed system components.	Select a system component to configure.  Specify the settings for that component.  Click <b>Next</b> to continue.
<a href="#">Assign System Components to Machines</a>	Only if a system component, such as OHS, is installed.	Assign the system component servers to the appropriate machines.  Click <b>Next</b> to continue.
<a href="#">Deployments Targeting</a>	Only if you selected <b>Deployments and Services</b> on the Select Optional Configuration screen, and a selected product or template contains J2EE applications or libraries	Select the target server or cluster on which you want to deploy applications or libraries.  Select the check box for each application or library you want to deploy on the selected target.  Click <b>Next</b> to continue.
<a href="#">Services Targeting</a>	Only if you selected <b>Deployments and Services</b> on the Select Optional Configuration screen	Select the target server or cluster.  Select the check box for each service you want to target to it.  Click <b>Next</b> to continue.
<a href="#">JMS File Stores</a>	Only if you selected <b>JMS File Store</b> on the Select Optional Configuration screen	Change the settings for each JMS file store as needed, and select the synchronous write policy for each file store.  Click <b>Next</b> to continue.



**Table 4–4 (Cont.) Configuration Screens for Updating an Existing WebLogic Domain**

<b>Screen</b>	<b>When Does This Screen Appear?</b>	<b>Perform the Following Action</b>
<a href="#">Configuration Summary</a>	Always	Review the configuration for your domain by selecting a Summary View, and then selecting individual items in the list for that view.  If the domain is configured as you want it, click <b>Update</b> to extend the domain.  If you need to make changes to the configuration, click <b>Previous</b> to return to the appropriate screen for the settings you want to change.
<a href="#">Configuration Progress</a>	Always	Shows the progress of the domain creation. When the process completes, click <b>Next</b> .
<a href="#">Configuration Success</a>	Always	Click <b>Finish</b> to exit the Configuration Wizard.



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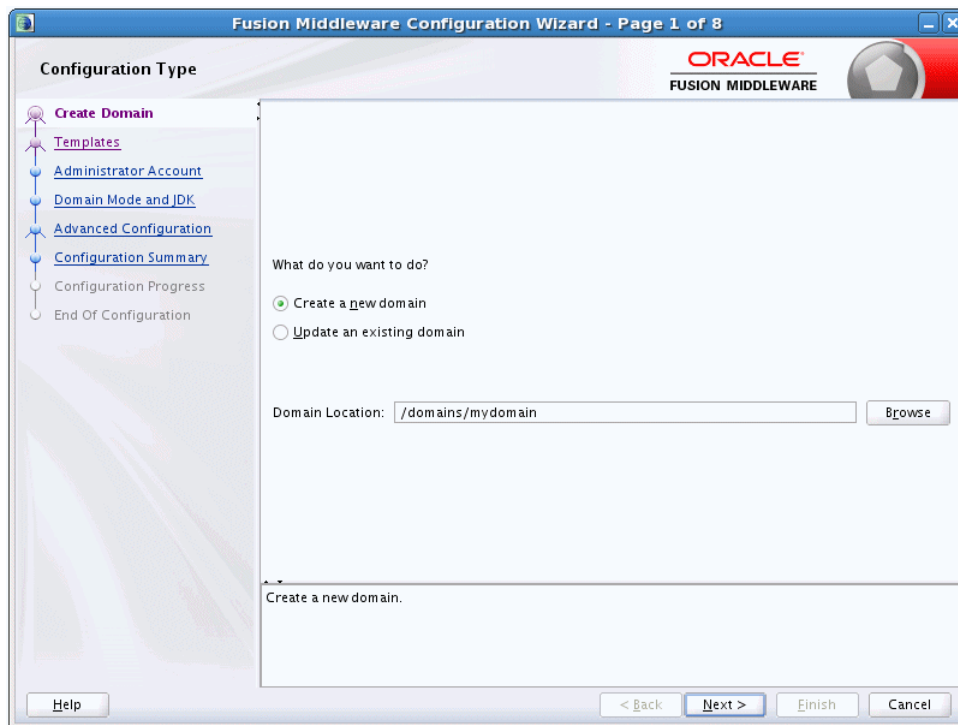
## Configuration Wizard Screens

The file contains the context-sensitive help topics for the Fusion Middleware Configuration Wizard.

- [Configuration Type](#)
- [Configuration](#)
- [Application Location](#)
- [Templates](#)
- [Administrator Account](#)
- [Domain Mode and JDK](#)
- [Database Configuration Type](#)
- [JDBC Component Schema](#)
- [GridLink Oracle RAC Component Schema](#)
- [Oracle RAC Multi Data Source Component Schema](#)
- [Test Component Schema](#)
- [JDBC Data Sources](#)
- [GridLink Oracle RAC Data Sources](#)
- [Oracle RAC Multi Data Sources](#)
- [JDBC Data Sources Test](#)
- [Credentials](#)
- [Keystore](#)
- [Database Scripts](#)
- [Advanced Configuration](#)
- [Administration Server](#)
- [Node Manager](#)
- [Managed Servers](#)
- [Clusters](#)
- [Assign Servers to Clusters](#)
- [HTTP Proxy Applications](#)
- [Coherence Clusters](#)

- [Machines](#)
- [Assign Servers to Machines](#)
- [System Components](#)
- [OHS Server](#)
- [ODI Server Configuration](#)
- [Assign System Components to Machines](#)
- [Deployments Targeting](#)
- [Services Targeting](#)
- [JMS File Stores](#)
- [Configuration Summary](#)
- [Configuration Progress](#)
- [Configuration Success](#)

## 5.1 Configuration Type



From this screen, you can select whether to create a domain or update an existing domain.

Option/Field	Description
Create a new domain	Select this option if you want to create a new domain. Typically, the new domain will be based on the WebLogic Server Basic Domain, which includes an Administration Server and the default security realm <code>myrealm</code> . You may, however, choose to use your own domain template to create the domain; your domain template must contain at least an Administration Server.

Option/Field	Description
Update an existing domain	<p>Select this option if you already have a WebLogic domain, and you want to add resources to that domain.</p> <p><b>Note:</b> You can only update domains that were created or reconfigured using the WebLogic Server installation from which you ran the Configuration Wizard. You cannot update domains that were created using other installations of WebLogic Server. If you specify a domain that was not created with the current installation, an error is displayed when you click <b>Next</b>.</p>
Domain Location	<p>If you selected a <b>Create</b> option, enter the full path for the domain, or use the <b>Browse</b> button to navigate to the directory in which your domains are located. If you do so, you must enter a unique directory name for the new domain at the end of the path.</p> <p><b>Note:</b> Oracle recommends that you create your domain directories outside of the Oracle home directory.</p> <p>If you selected the <b>Update</b> option, use the <b>Browse</b> button to navigate to the domain that you want to update. If multiple domains exist in this installation, this field contains a drop-down list of the domains, and you can select the domain that you want to update.</p>

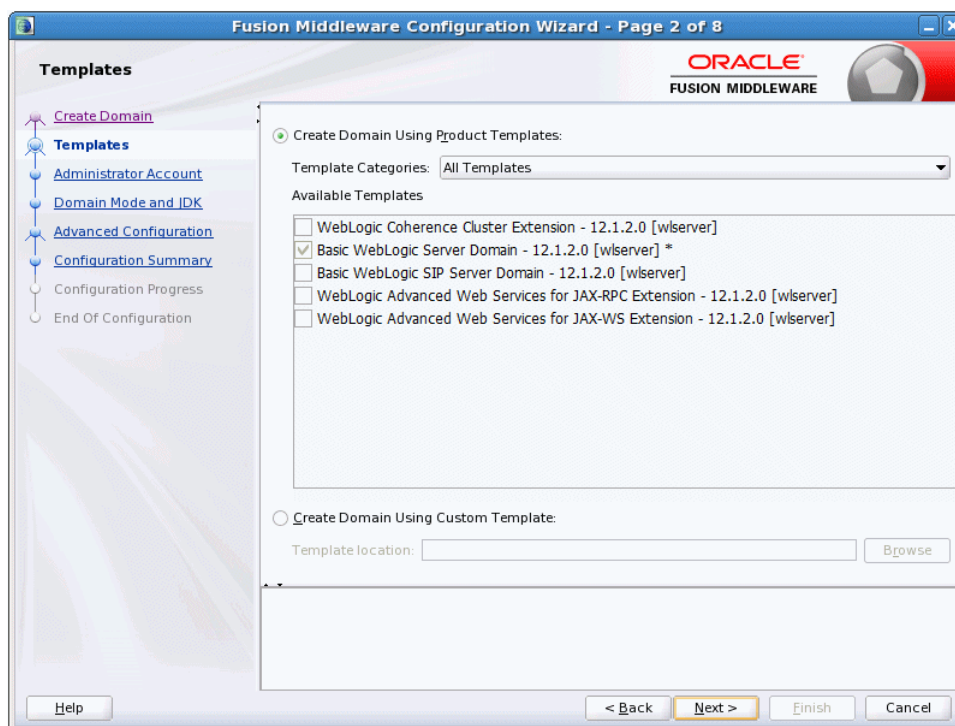
## 5.2 Configuration

The Configuration screen appears only if you ran the Quick Start Configuration Wizard at the end of WebLogic Server installation to configure the WebLogic Server sample domains or if you ran the wizard from the command line. Configure the following fields for the sample domains.

Field	Description
Name	<p>The login username for the WebLogic Administrator account.</p> <p>The username must <i>not</i> contain commas, tabs, or any of the following characters:</p> <p>&lt; &gt; #   &amp; ? ( ) { }</p>
Password	<p>The password for the WebLogic Administrator account. The password must be at least eight characters, and must contain at least one numeric character or at least one of the following characters:</p> <p>! " # \$ % &amp; ' ( ) * + , - . / : ; &lt; = &gt; ? @ [ \ ] ^ _ ` {   } ~</p> <p>The password that is set here is also used for any JDBC data sources that are defined in the templates you specified when you started the Quick Start Configuration Wizard.</p>
Confirm Password	Enter the same user password. An error is displayed if the two entries do not match.
Advanced Configuration	Specify the following advanced configuration options for the new domain.
Domain location	<p>This field is displayed only if you are creating a single domain.</p> <p>Enter the full path for the domain (for example, C:\domains\newdomain). You can also use the <b>Browse</b> button to navigate to the directory in which your domains are located (for example, C:\domains). If you do so, you must enter a unique directory name for the new domain at the end of the path.</p>
Domain parent location	<p>This field is displayed only if you are configuring the three WebLogic Server sample domains at the end of the WebLogic Server installation.</p> <p>Enter the full path for the parent domain to use for the WebLogic Server sample domains. For example, if you enter C:\domains, the following domain directories are created: C:\domains\medrec, C:\domains\medrec-spring, and C:\domains\wl_server.</p> <p>You can also use the <b>Browse</b> button to navigate to the directory to use as the parent directory.</p>
Application location	<p>This field is displayed only if you are creating a single domain.</p> <p>Enter the full path to the directory in which you want to store the applications that are associated with the domain (for example, C:\applications\newdomain). You can also use the <b>Browse</b> button to navigate to the directory in which your applications are located (for example, C:\applications). If you do so, you must enter a unique directory name for the new domain's application location at the end of the path.</p>
Application parent location	<p>This field is displayed only if you are configuring the three WebLogic Server sample domains at the end of the WebLogic Server installation.</p> <p>Enter the full path for the parent application directory to use for the domains. For example, if you enter C:\applications, the following application directories are created: C:\applications\medrec, C:\applications\medrec-spring, and C:\applications\wl_server.</p> <p><b>Note:</b> This directory determines the location of the WebLogic server examples, which will be installed in <i>application_parent_directory/wl_server/examples/src/examples</i>. The default location is <i>user_projects/applications/wl_server/examples/src/examples</i>.</p> <p>You can also use the <b>Browse</b> button to navigate to the directory to use as the parent directory.</p>

Field	Description
Administration Server Listen Address	From the drop-down list, select a value for the listen address. For more information, see <a href="#">Section 5.20.1, "Specifying the Listen Address."</a>
Administration Server Listen Port	Enter a valid value for the listen port to be used for regular, nonsecure requests (through protocols such as HTTP and T3). The default value is 7001 for the Administration Server. If you leave this field blank, the default value is used. The valid listen port range is from 1 to 65535.  For more information, see <a href="#">Section 5.20.2, "Specifying the Listen Port."</a>
SSL Listen Port	Enter a valid value to be used for secure requests (through protocols such as HTTPS and T3S). The default value is 7002. If you leave this field blank, the default value is used. The valid listen port range is from 1 to 65535.  By default, a server instance uses demonstration certificates to authenticate requests from a secure port. In a production environment, you must configure SSL to use certificates from a certificate authority.  For more information, see "Configuring SSL" in <i>Administering Security for Oracle WebLogic Server</i> .
Coherence Listen Port	Specify the listen port to use on the Administration Server for Coherence.

### 5.3 Templates



Choose whether to create or extend a domain that is configured automatically to support selected products, or to create or extend a domain based on an existing domain or application template. Each template in the displayed list is associated with a single product template (a JAR file) which configures the required domain resources

for the product. If the selected template has dependencies on other templates, the dependency templates are automatically selected or included in the domain.

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**Note:** Positioning the cursor over a template displays a description of template and the location and name of the template JAR file.

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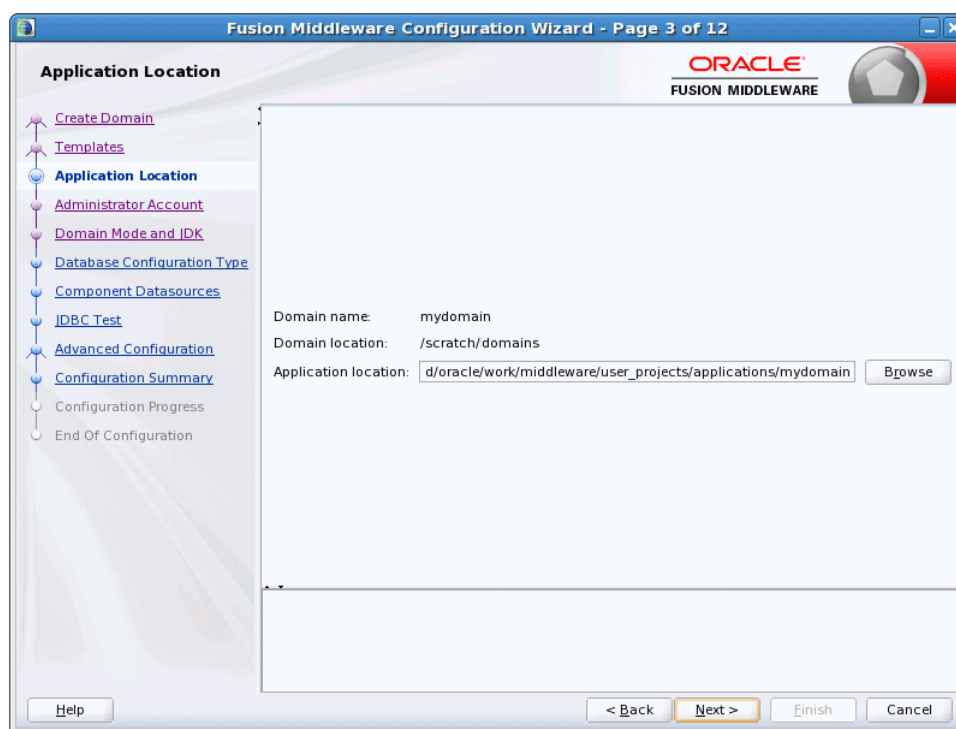
See "Template Dependencies" in *Domain Template Reference* for more information.

Option	Description
Create Domain Using Product Templates	<p>This option is available only when creating a new domain.</p> <p>By default, the <b>Basic WebLogic Server Domain</b> option is selected and cannot be cleared.</p> <p>Select the check boxes that correspond to the other products that you want to include in the domain. If you select a product that is dependent on resources provided by another product or products in the list, those products are also selected automatically. If you select a product that is incompatible with another selected product, an error is displayed.</p> <p>When you click <b>Next</b>, if any of the selected templates require resources provided by another product that is not selected, a warning dialog box is displayed. Return to the Templates screen to select the dependency product before proceeding.</p>
Update Domain Using Product Templates	<p>This option is available only if you selected <b>Update an existing domain</b> on the initial screen.</p> <p>Select the check boxes for the products to add to your WebLogic domain. The products already included in your domain are indicated by grayed-out check boxes. You cannot deselect these.</p> <p>When you click <b>Next</b>, if any of the selected templates require resources provided by another product that is not selected, a warning dialog box is displayed. Return to the Templates screen to select the dependency product before proceeding.</p> <p><b>Note:</b> When extending a domain, you are not required to select additional products before proceeding. For example, you do not have to select any products if you only want to add servers or clusters to your domain, or change service targeting.</p>
Template Categories	<p>You can filter the displayed list of templates by selecting one or more of the listed categories. At least one category must be selected.</p>
Create Domain Using Custom Template	<p>Select this option if you want to create a domain by using an existing custom domain template. Enter the full path to the template JAR file in the <b>Template location</b> field, or click <b>Browse</b> to navigate to the directory containing the required template. The template you select must define at least an Administration Server.</p> <p>When you click <b>Next</b>, if the selected template requires resources provided by another template, a warning dialog box is displayed. You must create the domain using the required template first. After doing so, extend the domain using the template you initially selected.</p>



Option	Description
Update Domain Using Custom Template	<p>This option is available only if you selected <b>Extend and Existing Domain</b> on the initial screen.</p> <p>Select this option if you want to extend your domain using an existing custom extension template. Specify the path to the extension template JAR file in the <b>Template location</b> field or click <b>Browse</b> to navigate to the directory containing the extension template.</p> <p>You can use this option only in the following situations:</p> <ul style="list-style-type: none"> <li>■ The template JAR you select is a domain template.</li> <li>■ The template JAR you select is an extension template that is being added to a domain that already includes all dependency templates required by the extension template.</li> </ul> <p>When you click <b>Next</b>, if the selected template requires resources provided by another template that is not already included in the domain, a configuration error is displayed. You must first create or extend the domain using the required template. After doing so, extend the domain using the template you initially selected.</p>

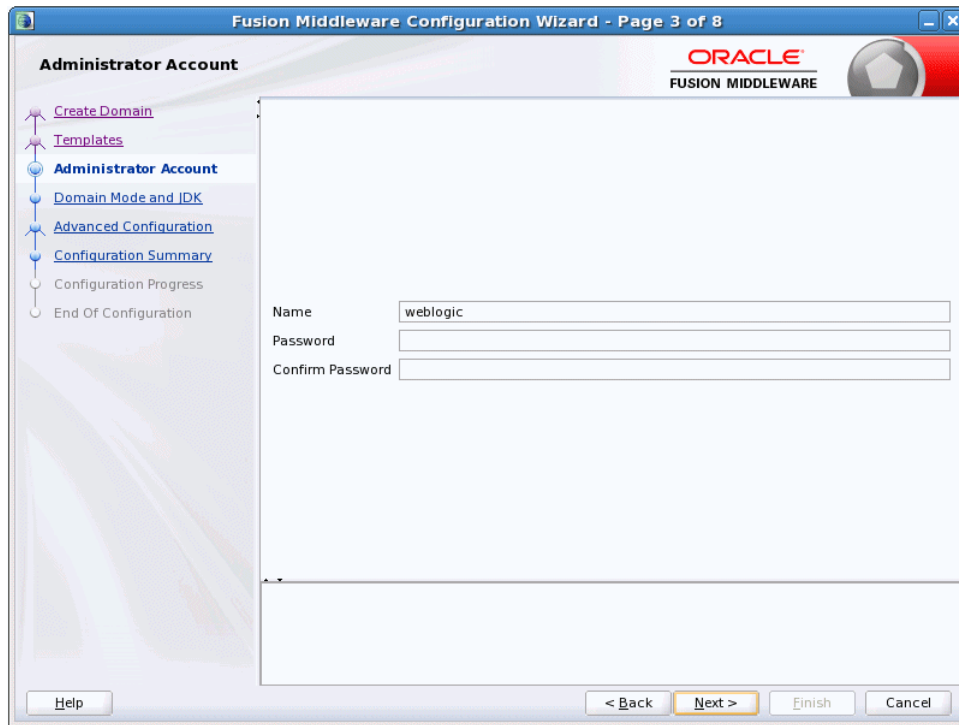
## 5.4 Application Location



In the **Application location** field, enter the full path to the directory in which you want to store the applications that are associated with the domain. You can use the **Browse** button to navigate to a top-level directory, and then type in the remainder of the application path.

As with domain directories, Oracle recommends that you store your applications in an application directory outside of your Oracle home directory.

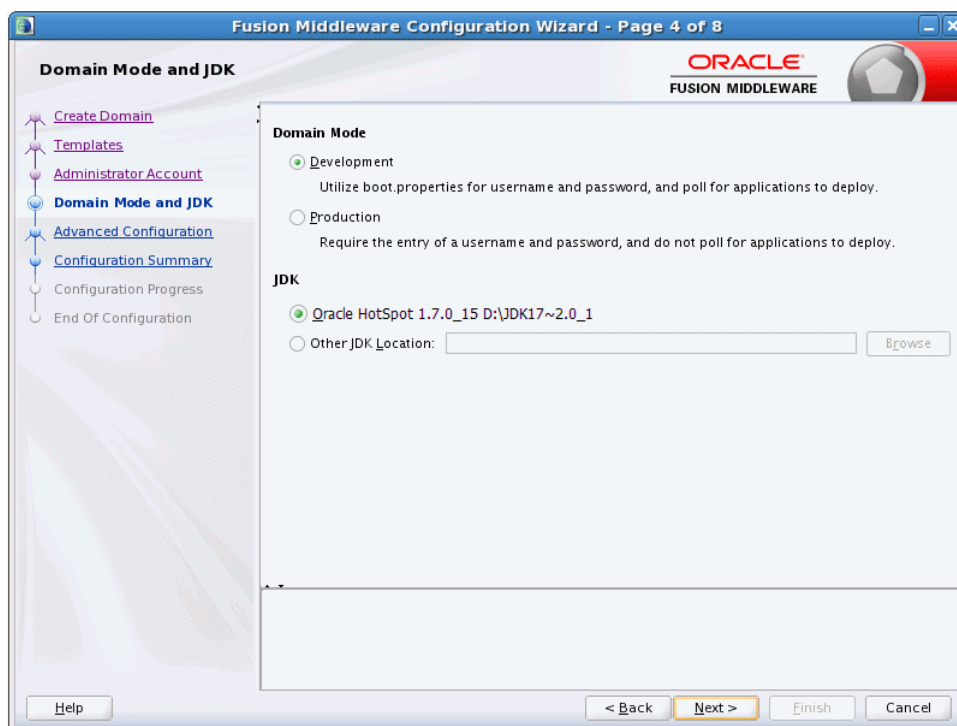
## 5.5 Administrator Account



Use this screen to define the default WebLogic Administrator account for the domain. This account is used to boot and connect to the domain's Administration Server.

Field	Description
Name	The login username for the WebLogic Administrator account. The username must <i>not</i> contain commas, tabs, or any of the following characters: < > #   & ? ( ) { }
User password	The password for the WebLogic Administrator account. The password must be at least eight characters, and must contain at least one numeric character or at least one of the following characters: ! " # \$ % & ' ( ) * + , - . / : ; < = > ? @ [ \ ] ^ _ ` {   } ~
Confirm user password	Enter the same user password. An error is displayed if the two entries do not match.

## 5.6 Domain Mode and JDK



### Domain Mode

Use this section to specify whether you want to run WebLogic in Production mode or Development mode.

Option	Description
Development	In this mode, the security configuration is relatively relaxed. Username and password are required to deploy applications.
Production	In this mode, the security configuration is relatively stringent, requiring a username and password to deploy applications and to start the Administration Server. Before putting a domain into production, familiarize yourself with procedures for securing a production environment.  For more information, see "Ensuring the Security of Your Production Environment" in <i>Securing a Production Environment for Oracle WebLogic Server</i> .

The following table provides more details on the differences between development mode and production mode:

**Table 5–1 Differences Between Development and Production Modes**

Feature	Development Mode	Production Mode
SSL	<p>You can use the demonstration digital certificates and the demonstration keystores provided by the WebLogic Server security services. With these certificates, you can design your application to work within environments secured by SSL.</p> <p>For more information, see "Configuring SSL" in <i>Administering Security for Oracle WebLogic Server</i>.</p>	<p>You must not use the demonstration digital certificates and the demonstration keystores. If you do so, a warning message is displayed.</p>
Deploying applications	<p>WebLogic Server instances can deploy and update applications that reside in the <i>domain_name</i>/autodeploy directory automatically.</p> <p>Oracle recommends that you use this method only in a single-server development environment.</p> <p>For more information, see "Deploying Applications and Modules with <code>weblogic.deployer</code>" in <i>Deploying Applications to Oracle WebLogic Server</i>.</p>	<p>The auto-deployment feature is disabled. You must use the WebLogic Server Administration Console, the <code>weblogic.deployer</code> tool, or the WebLogic Scripting Tool.</p>
Log file rotation	<p>By default, when you start the WebLogic Server instance, the server automatically renames (rotates) its local server log file as <i>SERVER-NAME.log.n</i>. For the remainder of the server session, messages accumulate in the log file until the file grows to a size of 500 kilobytes.</p> <p>For more information, see "Rotate Log Files" in the <i>Oracle WebLogic Server Administration Console Online Help</i>.</p> <p>The default value of the <b>Limit number of retained files</b> setting in Logging Configuration is <code>true</code>. This limits the number of log files that the server instance creates to store old messages.</p>	<p>The server rotates the local log file after the size of the file reaches 5000 kilobytes.</p> <p>When the server is configured for production mode, by default, all versions of the log files are kept. Administrators may want to customize the number of log files that are retained.</p> <p>The default value of the <b>Limit number of retained files</b> setting in Logging Configuration is <code>false</code>. The server creates new log files indefinitely, and you must clean up those files as needed.</p>
<code>boot.properties</code>	<p>A <code>boot.properties</code> file is created, which allows you to boot the server without specifying a username and password.</p>	<p>A <code>boot.properties</code> file is <i>not</i> created.</p>

**JDK**

Use the JDK section to select the JDK for the domain. Select only a JDK that is supported on the platform you are using. For a list of the JDKs that are supported for a specific platform, see "Oracle Fusion Middleware Supported System Configurations" on Oracle Technology Network.

Option	Description
JDK	Lists the JDK that was used when you installed WebLogic Server. The default JDK is Oracle Hotspot SDK <i>version</i> , but you may have installed and used another JDK during installation.

Option	Description
Other JDK	<p>Select this option to use a JDK other than the one that you used when you installed WebLogic Server. Use the <b>Browse</b> button to navigate to the directory where the JDK resides.</p> <p>If you select the JDK that you used when you installed WebLogic Server, the Configuration Wizard creates server startup scripts to invoke that JDK. If you select a JDK that you did not use when you installed WebLogic Server, the Configuration Wizard does not configure the startup scripts; you must change the startup scripts manually.</p> <p>For more information about startup scripts, see <i>Tuning Performance of Oracle WebLogic Server</i>.</p>

## 5.7 Database Configuration Type

This screen and the subsequent schema configuration screens are displayed only for WebLogic Server installations that include the Fusion Middleware infrastructure components.

You can use this screen to specify the information for connecting to the database to retrieve schema information that will be used to populate the schema fields on subsequent component schema screens ([JDBC Component Schema](#), [GridLink Oracle RAC Component Schema](#), or [Oracle RAC Multi Data Source Component Schema](#)). You also have the option to skip this step and manually configure each component schema on the component schema screen.

Select one of the following options.

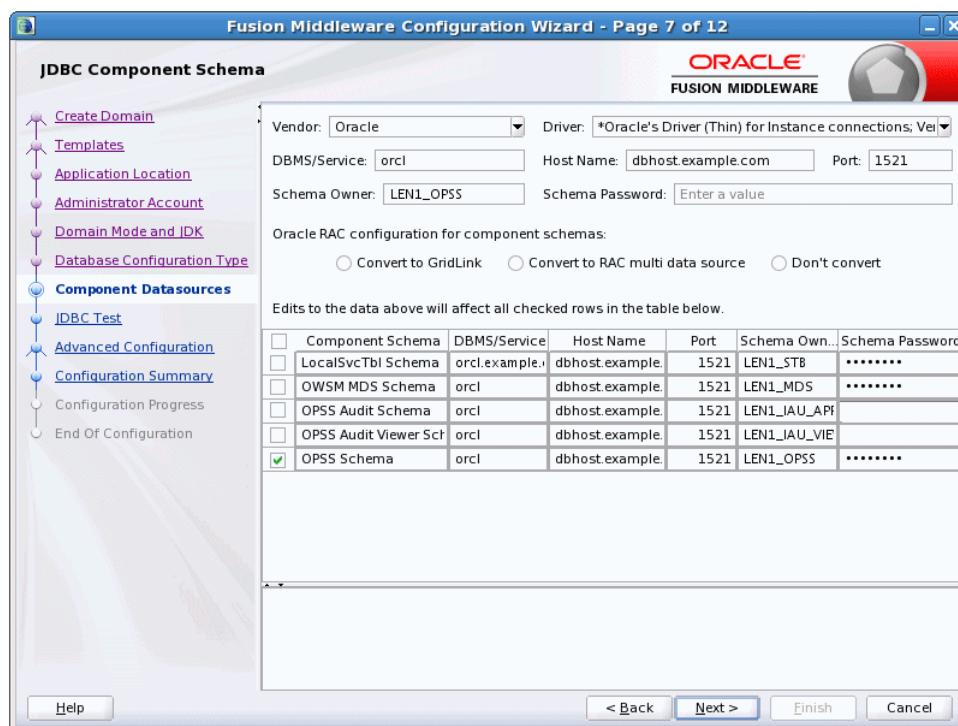
Field	Description
RCU Data	<p>Select this option if you want to connect to the database to retrieve schema information for all schemas that are defined in the templates you selected on the <a href="#">Templates</a> screen. If you select this option, the fields on this screen are activated. Fill in each field, using the connection information that you specified for the Service Table component in the Repository Creation Utility (RCU). When done, click <b>Get RCU Configuration</b> to retrieve the schema information.</p> <p>For information about Service Tables, see "Understanding Service Tables" in <i>Administering Oracle Fusion Middleware</i>.</p> <p>After successfully retrieving the schema information, click <b>Next</b> to continue.</p> <p><b>Note:</b> The only JDBC connections that are supported are the Oracle service type JDBC connections that are supported by RCU.</p>
Manual Configuration	<p>If you select this option, you must manually configure the settings for each schema. Note that some of the fields in the schema table on the component schema screen are populated with the default Java database values, for example, Host Name is set to dbhost.example for all schemas.</p> <p>After selecting this option, click <b>Next</b> to continue.</p>

Complete the following fields for the **RCU Data** option, and then click **Get RCU Configuration**.

See "Database Connection Details" in *Creating Schemas with the Repository Creation Utility* for more information.

Field	Description
Vendor	Select the database vendor.
Driver	Select the JDBC driver that is configured for the database. The list includes common JDBC drivers for the selected database vendor.
DBMS/Service	Enter the database DBMS name, or service name if you selected a service type driver.
Host Name	Enter the name of the server hosting the database.
Port	Enter the port number to be used to connect to the server that hosts the database.
Schema Owner Schema Password	<p>Enter the username and password for connecting to the database's service table schema. This is the schema username and password that was specified for the Service Table component on the "Schema Passwords" screen of the Repository Creation Utility (RCU). The default username is <i>prefix_STB</i>, where prefix is the prefix that you defined in RCU. The schema you specify must be unique for the domain (not being used by any other domains).</p> <p>See "Schema Passwords" in <i>Creating Schemas with the Repository Creation Utility</i> for more information.</p>

## 5.8 JDBC Component Schema



For some Fusion Middleware components, JDBC data sources might be defined as part of the component's database schema, which are loaded during installation of the component by using the Repository Creation Utility (RCU).

When you create a WebLogic domain for such components by using the Configuration Wizard, you can configure the JDBC component schema settings, such as database driver, schema owner, password, and so on.

- If you selected the **RCU Data** option on the [Database Configuration Type](#) screen, the schema table has already been populated appropriately and you can click **Next** to continue.
- If you selected the **Configure Using Embedded Database** option, any schema components that have a corresponding dev-database entry in database.xml will not be displayed on this screen.
- If you selected the **Manual Configuration** option on the [Database Configuration Type](#) screen, you must configure the schemas listed in this table manually before continuing.

The JDBC component schemas associated with the products for which you are creating the domain are listed in the lower half of the screen.

Select the schemas for which you want to specify data source settings by selecting the check box adjacent to each schema name.

---

**Note:** When you select multiple component schemas, the text "Varies among component schemas" might be displayed in certain fields, indicating that the current values of those fields are different across the selected component schemas. If you change the values in such fields, the new values are applied uniformly across the selected component schemas.

The default values of component schema parameters such as vendor, driver, host name, and port number depend on the values that are specified in the application templates.

---

Field	Description
Vendor	Select the database vendor.
Driver	Select the JDBC driver to use to connect to the database. The list includes common JDBC drivers for the selected database vendor.
DBMS/Service	Enter a database DBMS name, or service name if you selected a service type driver.
Host Name	Enter the name of the server hosting the database.
Port	Enter the port number to be used to connect to the server that hosts the database.
Schema Owner	Enter the username for connecting to the database.
Schema Password	Enter the password for this username.

The values that you specify are displayed in the appropriate columns in the schema list, for the selected schemas.

To convert one or more schemas to GridLink RAC schemas, select the check boxes adjacent to the name of the those schemas, and select the **Convert to GridLink** option. Click **Next** when done. When you click **Next**, the [GridLink Oracle RAC Component Schema](#) screen is displayed.

For more information, see "Using GridLink Data Sources" in *Administering JDBC Data Sources for Oracle WebLogic Server*

To convert one or more of the schemas to Oracle RAC multi data source schemas, select the check boxes adjacent to the name of the those schemas, and select the **Convert to RAC multi data source** option. Click **Next** when done. When you click **Next**, the [Oracle RAC Multi Data Source Component Schema](#) screen is displayed.

For more information, see "Using WebLogic Server with Oracle RAC" in *Administering JDBC Data Sources for Oracle WebLogic Server*.



## 5.9 GridLink Oracle RAC Component Schema

Use this screen to configure the component schemas that are included in your WebLogic domain as GridLink RAC data sources. A GridLink data source is a single data source that represents a service that responds to Fast Application Notification (FAN) events.

For more information on GridLink RAC data sources, see "Using GridLink Data Sources" in *Administering JDBC Data Sources for Oracle WebLogic Server*.

The component schemas that you opted to configure as GridLink RAC data sources in the [JDBC Component Schema](#) screen of the wizard are listed in the lower half of the screen.

- If you selected the **RCU Data** option on the [Database Configuration Type](#) screen, the schema table has already been populated appropriately and you can click **Next** to continue.
- If you selected the **Manual Configuration** option on the [Database Configuration Type](#) screen, you must configure the schemas listed in this table manually before continuing.

In the schema list in the lower half of the screen, select the schemas to configure as GridLink RAC data sources by selecting the check box adjacent to each schema name.

---

**Note:** When you select multiple data source schemas, the text "Varies among component schemas" might be displayed in certain fields, indicating that the current values of those fields are different across the selected schemas. If you go ahead and change the values in such fields, the new values are applied uniformly across the selected schemas.

---

Field	Description
Driver	Select the appropriate driver. Some or all of the following drivers are listed: <ul style="list-style-type: none"> <li>■ Oracle Driver (Thin) for GridLink Connections This is the GridLink Type 4 non-XA driver.</li> <li>■ Oracle Driver (Thin XA) for GridLink Connections This is the GridLink Type 4 XA driver.</li> </ul>
Service Name	Enter a database Oracle RAC service name.
Schema Owner	Enter the username for connecting to the database.
Schema Password	Enter the password for this username.
Enable FAN	When selected, the data source will register for and process FAN notifications.
Enable SSL	When selected, SSL is enabled, and you must specify a wallet file, wallet password, and at least one Oracle Notification Service (ONS) host/port.
Wallet File	If SSL is enabled, specify the full path to the wallet file that contains the credentials for ONS/SSL. A wallet file is an Oracle credential file that stores keys and certificates.
Wallet Password	Specify the password for the wallet file. The password will be encrypted in the module configuration file.
Service Listener	Enter the name of the GridLink database Service Listener. You must configure the Service Listener for at least one database instance.
Port	This is the listen port for the database service listener. It defaults to 1521 and typically does not need to be changed.
Protocol	Click in this field and select the protocol to use for communication between WebLogic Server and the database service listener.
ONS Host	Specify the Oracle Notification Service (ONS) host name. If SSL is enabled, you must specify at least one ONS host and port.
Port	Specify the listen port to use on the ONS host.

The values that you specify are displayed in the appropriate columns in the schema list, for the selected schemas.

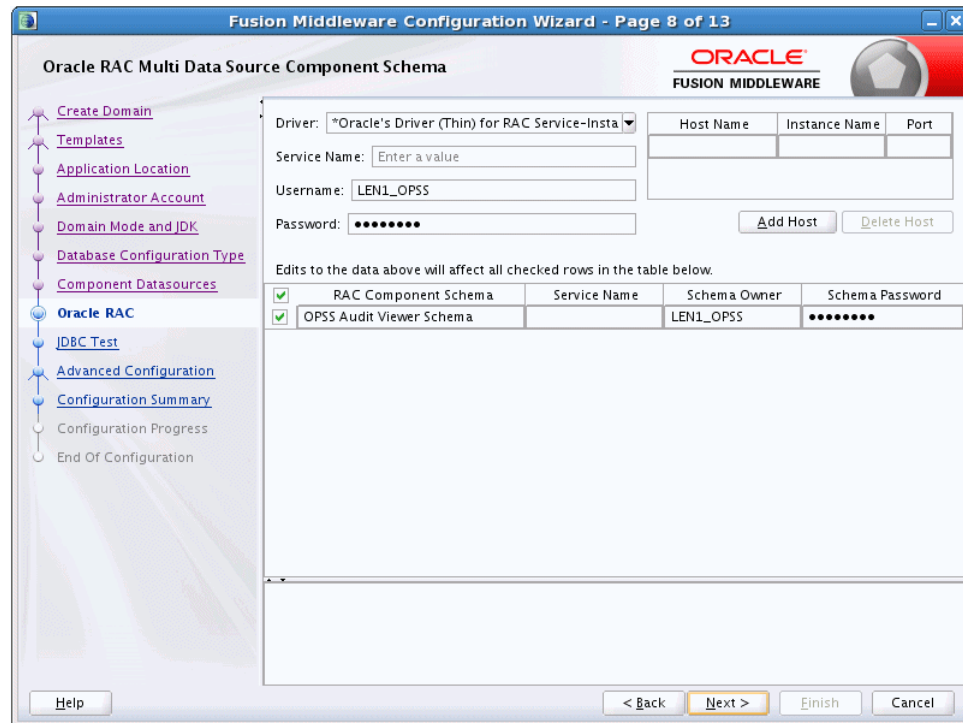
To add another row to the **Service Listener** table, click anywhere in the table, and then click **Add**.

To add another row to the **ONS Host** table, click anywhere in the table, and then click **Add**.

To delete a row from the **Service Listener** table, click anywhere in the row, and then click **Delete**.

To delete a row from the **ONS Host** table, click anywhere in the row, and then click **Delete**.

## 5.10 Oracle RAC Multi Data Source Component Schema



Use this screen to configure the component schemas that are included in the WebLogic domain as Oracle RAC multi data sources.

For more information, see "Using WebLogic Server with Oracle RAC" in *Administering JDBC Data Sources for Oracle WebLogic Server*.

The component schemas that you opted to configure as Oracle RAC multi data sources in the [JDBC Component Schema](#) screen of the wizard are listed in the lower half of the screen.

- If you selected the **RCU Data** option on the [Database Configuration Type](#) screen, the schema table has already been populated appropriately and you can click **Next** to continue.
- If you selected the **Manual Configuration** option on the [Database Configuration Type](#) screen, you must configure the schemas listed in this table manually before continuing.

In the schema list in the lower half of the screen, select the schemas to configure as Oracle RAC multi data sources by selecting the check box adjacent to each schema name.

---

**Note:** When you select multiple data source schemas, the text "Varies among component schemas" might be displayed in certain fields, indicating that the current values of those fields are different across the selected schemas. If you go ahead and change the values in such fields, the new values are applied uniformly across the selected schemas.

---

Field	Description
Driver	Select the JDBC driver to use to connect to the database.
Service Name	Enter a database Oracle RAC service name.
Username	Enter the username for connecting to the database.
Password	Enter the password for the specified username.
Host Name	Enter the name of the server hosting the Oracle RAC database instances.
Instance Name	Enter the name of each Oracle database instance.
Port	Enter the port number to use to connect to the server that hosts the database.

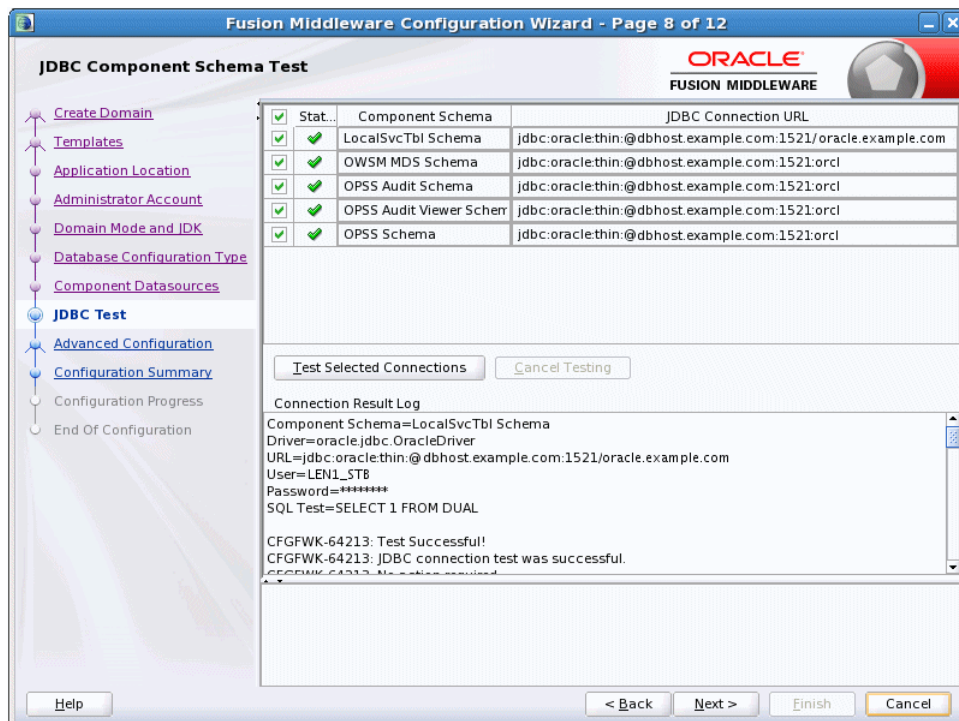
**Note:** You must specify the host name, instance name, and port number of at least one database instance.

To add another database instance for the currently selected schemas, click **Add Host**.

To delete a database instance, click anywhere in that row in the Host Name table, and then click **Delete**.

The values that you specify for the schema are displayed in the appropriate columns in the schema list, for the selected schemas.

## 5.11 Test Component Schema



Use this screen to test the configurations that you specified for the data sources in the previous screen. Note that:

- If the JDBC driver JAR file for a data source is not in the classpath, the data source is not selectable for testing.
- If you are updating a domain, all data sources that exist in the original domain are not selected by default. Only new data sources are selected and tested by default.

Select the check boxes adjacent to the names of the schemas to test, and then click **Test Selected Connections**.

The wizard tests the configuration for each schema by attempting to connect to a URL that is constructed by using the driver, host, port, and other information that you specified while configuring the schema.

The result of the test is indicated in the **Status** column. Details are displayed in the **Connection Result Log** section.

## 5.12 JDBC Data Sources

**JDBC Data Sources**

Vendor: Derby Driver: Varies among data sources

DBMS/Service: examples Host Name: localhost Port: 1527

Username: examples Password: ●●●●●●

Oracle RAC configuration for data sources:

Convert to GridLink  Convert to RAC multi data source  Don't convert

Edits to the data above will affect all checked rows in the table below.

	Data Source	DBMS/Service	Host Name	Port	Username	Password
<input checked="" type="checkbox"/>	examples-demo	examples	localhost	1527	examples	●●●●●●
<input checked="" type="checkbox"/>	examples-demoXA	examples	localhost	1527	examples	●●●●●●

Help < Back Next > Finish Cancel

A JDBC data source contains a pool of database connections that are created when the data source instance is created—when it is deployed or targeted, or at server startup. Applications look up a data source on the JNDI tree, and then request a connection. When the applications no longer need the connections, they return the connections to the connection pool in the data source.

Use this screen to configure the JDBC data sources defined in your domain source.

The JDBC data sources associated with the products for which you are creating the domain are listed in the lower half of the screen.

Select the data source(s) for which you want to specify settings by selecting the check box adjacent to each data source name. The values that you specify are displayed in the appropriate columns in the data source list, for the selected data source.

---

**Notes:** When you select multiple data sources, the text "Varies among component schemas" might be displayed in certain fields, indicating that the current values of those fields are different across the selected data sources. If you change the values in such fields, the new values are applied uniformly across the selected data sources.

The default values of data source parameters such as vendor, driver, host name, and port number depend on the values that are specified in the application templates.

---

Field	Description
Vendor	Select the database vendor.
Driver	Select the JDBC driver to use to connect to the database. The list includes common JDBC drivers for the selected database vendor.
DBMS/Service	Enter a DBMS SID or service name. The value that you enter depends on the driver that you selected.  If the name of the Oracle driver that you selected contains the words "for Instance connections," you must enter the SID.  If the name of the Oracle driver contains the words "for Service connections," you must enter the service name.  For information about configuring a DataDirect driver, see the DataDirect documentation.
Host Name	Enter the name of the server hosting the database.
Port Name	Enter the port number to be used to connect to the server.
Username	Enter the username for connecting to the database.
Password	Enter the password for the specified username.

To convert one or more data sources to GridLink RAC data sources, select the check boxes adjacent to the name of the those data sources, and select the **Convert to GridLink** option. Click **Next** when done. When you click **Next**, the [GridLink Oracle RAC Data Sources](#) screen is displayed.

For more information, see "Using GridLink Data Sources" in *Administering JDBC Data Sources for Oracle WebLogic Server*

To convert one or more of the data sources to Oracle RAC multi data sources, select the check box adjacent to the name of the required data source, and select the **Convert to RAC multi data source** option. When you click **Next**, the [Oracle RAC Multi Data Sources](#) screen is displayed.

For more information, see "Using WebLogic Server with Oracle RAC" in *Administering JDBC Data Sources for Oracle WebLogic Server*.

## 5.13 GridLink Oracle RAC Data Sources

The screenshot shows the 'GridLink Oracle RAC Data Sources' configuration screen. The 'Driver' is set to '\*Oracle's Driver (Thin) for GridLink Connecti...'. The 'Service Name' is 'Enter a value', 'Username' is 'examples', and 'Password' is masked with dots. 'Enable FAN' is checked, and 'Enable SSL' is unchecked. The 'Wallet File' and 'Wallet Password' are also 'Enter a value'. The 'Service Listener' table has 'Protocol' set to 'TCP'. The 'ONS Host' and 'Port' table is empty. The bottom table lists three data sources, all with checkboxes checked:

	RAC Data Source	Service Name	Username	Password
<input checked="" type="checkbox"/>	examples-demo		examples	*****
<input checked="" type="checkbox"/>	examples-demoXA		examples	*****

Use this screen to configure the data sources that are included in your WebLogic domain as GridLink Oracle RAC data sources. A GridLink data source is a single data source that represents a service that responds to Fast Application Notification (FAN) events.

For more information, see "Using GridLink Data Sources" in *Administering JDBC Data Sources for Oracle WebLogic Server*

The data sources that you opted to configure as GridLink RAC data sources in the [JDBC Data Sources](#) screen of the wizard are listed in the lower half of the screen.

In the data source list in the lower half of the screen, select the data sources to configure as GridLink RAC data sources by selecting the check box adjacent to each data source name.

---

**Note:** When you select multiple data sources, the text "Varies among data sources" might be displayed in certain fields, indicating that the current values of those fields are different across the selected data sources. If you go ahead and change the values in such fields, the new values are applied uniformly across the selected data sources.

---

Field	Description
Driver	Some or all of the following drivers are listed: <ul style="list-style-type: none"> <li>Oracle Driver (Thin) for GridLink Connections This is the GridLink Type 4 non-XA driver.</li> <li>Oracle Driver (Thin XA) for GridLink Connections This is the GridLink Type 4 XA driver.</li> </ul>

<b>Field</b>	<b>Description</b>
Service Name	Enter a database Oracle RAC service name.
Username	Enter the username for connecting to the database.
Password	Enter the password for the specified username.
Enable FAN	When selected, the data source will register for and process FAN notifications.
Enable SSL	When selected, SSL is enabled, and you must specify a wallet file, wallet password, and at least one Oracle Notification Service (ONS) host/port.
Wallet File	If SSL is enabled, specify the full path to the wallet file that contains the credentials for ONS/SSL. A wallet file is an Oracle credential file that stores keys and certificates.
Wallet Password	Specify the password for the wallet file. The password will be encrypted in the module configuration file.
Service Listener	Enter the name of the GridLink database Service Listener. You must configure the Service Listener for at least one database instance.
Port	This is the listen port for the database service listener. It defaults to 1521 and typically does not need to be changed.
Protocol	Click in this field and select the protocol to use for communication between WebLogic Server and the database service listener.
ONS Host	Specify the Oracle Notification Service (ONS) host name. If SSL is enabled, you must specify at least one ONS host and port.
Port	Specify the listen port to use on the ONS host.

The values that you specify are displayed in the appropriate columns in the data source list, for the selected schemas.

To add another row to the **Service Listener** table, click anywhere in the table, and then click **Add**.

To add another row to the **ONS Host** table, click anywhere in the table, and then click **Add**.

To delete a row from the **Service Listener** table, click anywhere in the row, and then click **Delete**.

To delete a row from the **ONS Host** table, click anywhere in the row, and then click **Delete**.



## 5.14 Oracle RAC Multi Data Sources

The screenshot shows the 'Oracle RAC Multi Data Sources' configuration window. On the left is a navigation tree with options like 'Update Domain', 'Templates', 'Application Location', 'Datasources', 'GridLink DS', 'JDBC DS Test', 'Database Scripts', 'Advanced Configuration', 'Configuration Summary', 'Configuration Progress', and 'End Of Configuration'. The main area contains configuration fields: 'Driver' (set to '\*Oracle's Driver (Thin) for RAC Service-Insta'), 'Service Name' (placeholder 'Enter a value'), 'Username' (set to 'examples'), and 'Password' (masked with dots). To the right is a table for Host Name, Instance Name, and Port. Below these fields is a table of data sources:

	RAC Data Source	Service Name	Username	Password
<input checked="" type="checkbox"/>	examples-demo		examples	*****
<input checked="" type="checkbox"/>	examples-demoXA		examples	*****

At the bottom are 'Help', '< Back', 'Next >', 'Finish', and 'Cancel' buttons.

Use this screen to configure the data sources that are included in the domain as Oracle RAC data sources.

The data sources that you opted to configure as Oracle RAC data sources on the [JDBC Data Sources](#) screen are listed in the lower half of the screen.

Select the data source(s) for which you want to specify settings by selecting the check box adjacent to each data source name.

For information about Oracle RAC data sources, see "Using WebLogic Server with Oracle RAC" in *Administering JDBC Data Sources for Oracle WebLogic Server*.

---

**Note:** When you select multiple data sources, the text "Varies among data sources" might be displayed in certain fields, indicating that the current values of those fields are different across the selected data sources. If you change the values in such fields, the new values are applied uniformly across the selected data sources.

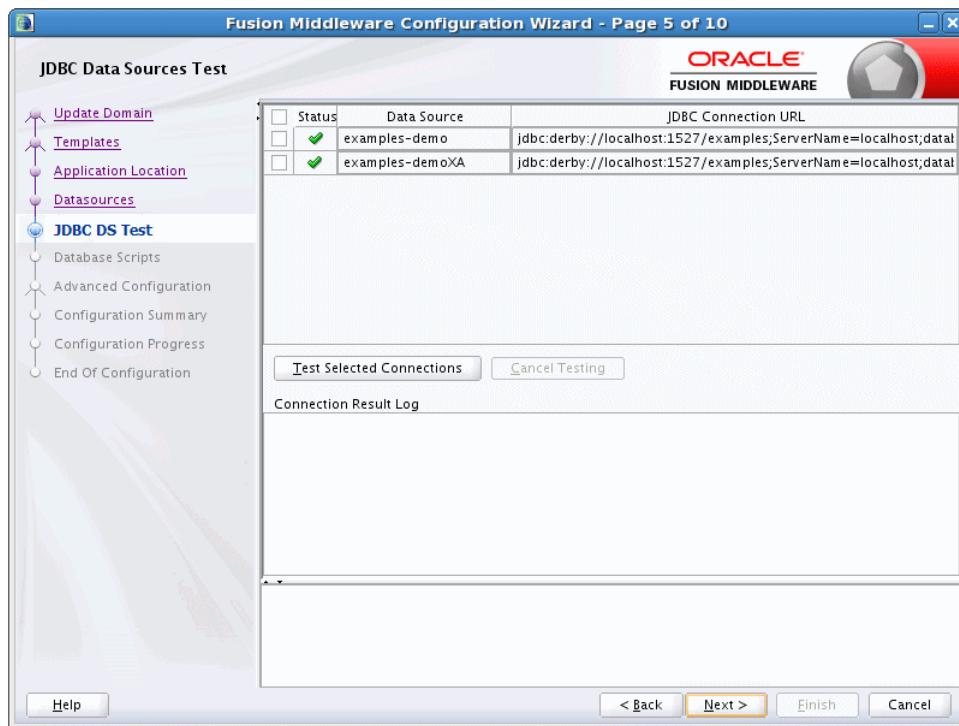
---

Field/Column	Description
Driver	Select the JDBC driver to use to connect to the database.
Service Name	Enter an Oracle RAC database service name.
Username	Enter the username for connecting to the database.
Password	Enter the password for the specified user account.
Host Name	Enter the name of the server hosting the Oracle RAC database instances.
Instance Name	Enter the name of each Oracle database instance.

Field/Column	Description
Port	Enter the port numbers to be used to connect to the server that hosts the database.

To add a new database instance, click **Add**, and then specify the host name, instance name and port number.

## 5.15 JDBC Data Sources Test



Use this screen to test the data source connections you configured on the [JDBC Data Sources](#) and [Oracle RAC Multi Data Sources](#) screens.

---

**Notes:** In order to test the database connections, the database to which you are connecting must be running.

If you do not want to test the connections at this time, do not select any data sources. Click **Next** to continue.

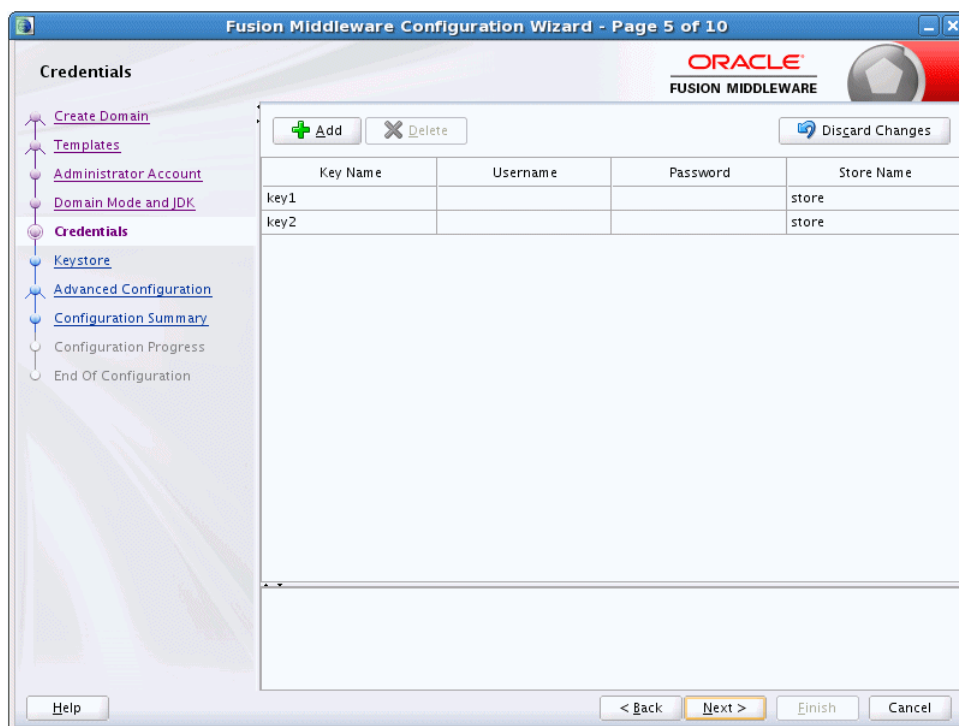
---

Select the check box for each data source you want to test, and then click **Test Connections**.

The wizard tests the configuration for each selected data source by attempting to connect to a URL that is constructed by using the driver, host, port, and other information that you specified while configuring the data source.

The result of the test is indicated in the **Status** column. Details are displayed in the **Connection Result Log** section.

## 5.16 Credentials

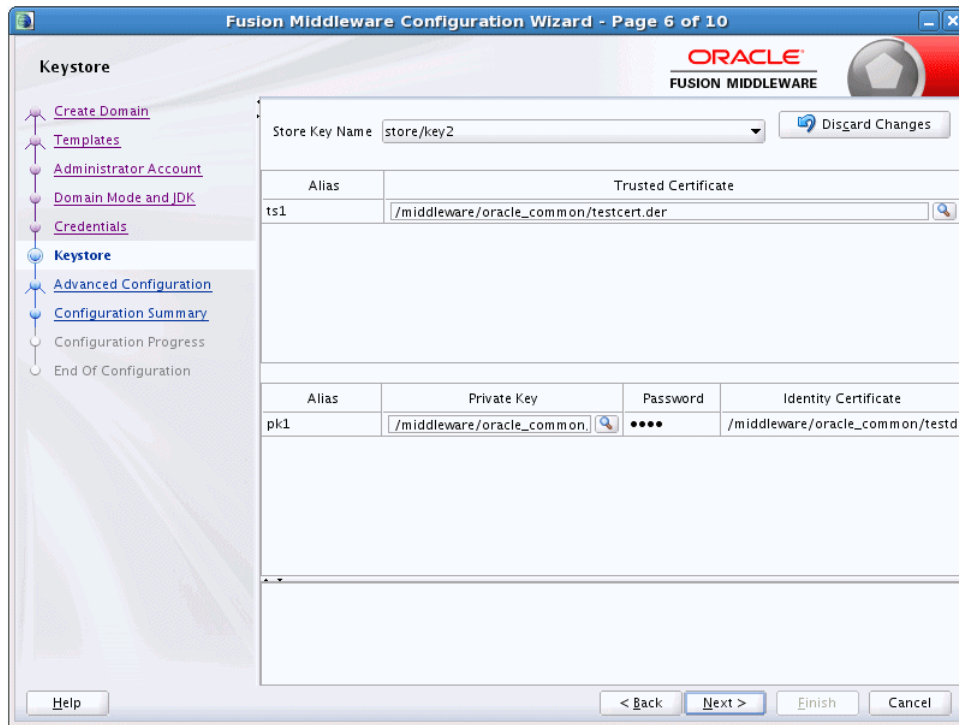


Use this screen to provide credentials for each key in the domain.

For more information on credentials, see "Understanding Identities, Policies, Credentials, Keys, Certificates, and Auditing" in *Application Security Guide*.

Column	Description
Key Name	This column displays the name of each key in the domain.
Username	On each row, enter the username and password to use for each key.
Password	
Store Name	This column displays the credential store that is associated with each key.

## 5.17 Keystore



Use this screen to:

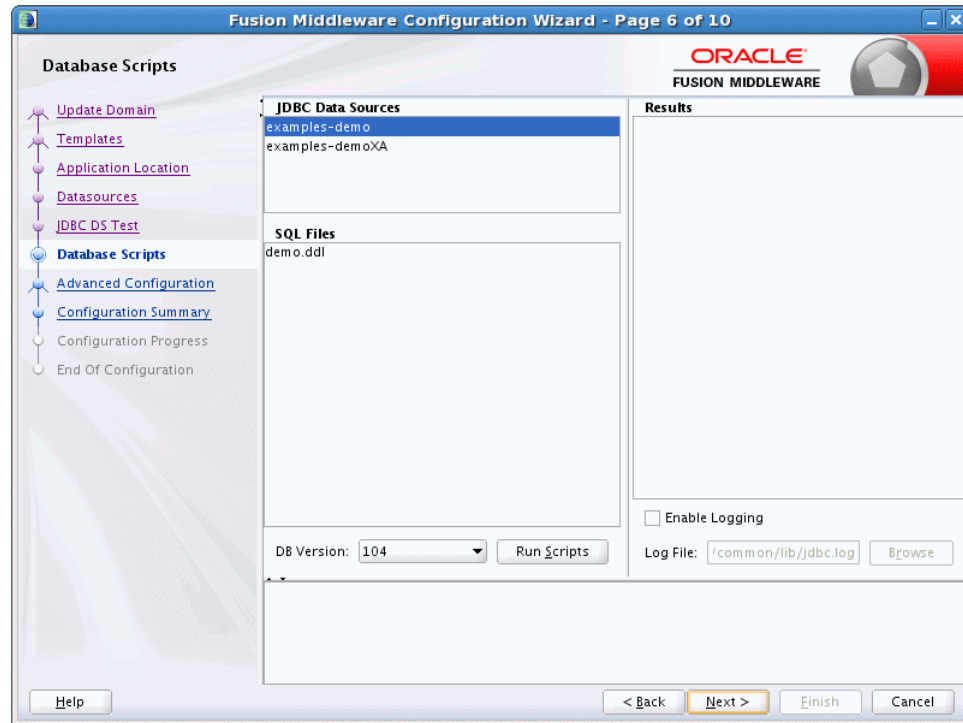
- specify the path to the trusted certificate for each keystore
- specify the path to each keystore's private key, the password for the private key and the path to the Identity Certificate for the private key.

When you click in the Trusted Certificate, Private Key, or Identity Certificate fields, a browse icon appears to the right of the field. Click this icon to browse to the appropriate file.

Option/Field	Description
Store Key Name	From this drop-down list, select the store/key that you want to configure.
Trusted Certificate table	The Trusted Certificate table contains the following two columns.
Alias	A read-only field that displays the alias for the trusted certificate as defined in the product template.
Trusted Certificate	Enter the full path and file name for the trusted certificate to use for the selected store/key, or click the icon on the far right of the row to navigate to and select the trusted certificate file.
Private Key table	The Private Key table contains the following four columns.
Alias	A read-only field that displays the alias for the private key as defined in the product template.
Private Key	Enter the full path and file name for the private key file to use for the selected store/key, or click the icon to the right of the field to navigate to and select the private key file.
Password	Enter the password to use for the private key.

Option/Field	Description
Identity Certificate	Enter the full path and file name for the identity certificate to associate with the private key, or click the icon to the right of the field to navigate to and select the identity certificate file.

## 5.18 Database Scripts



A domain template might contain a set of SQL files organized by database type. If the domain template contains SQL files, you can run them while creating the WebLogic domain, on the Database Scripts screen. Database content for each of the data sources defined in your WebLogic domain is set up by using pre-existing SQL or database loading files.

---

**Note:** No databases are defined in the WebLogic Server Base Domain (wls.jar) template. If you selected only the WebLogic Server Base Domain template as the basis for the WebLogic domain, the Configure JDBC Data Sources and the Run Database Scripts screens are not displayed.

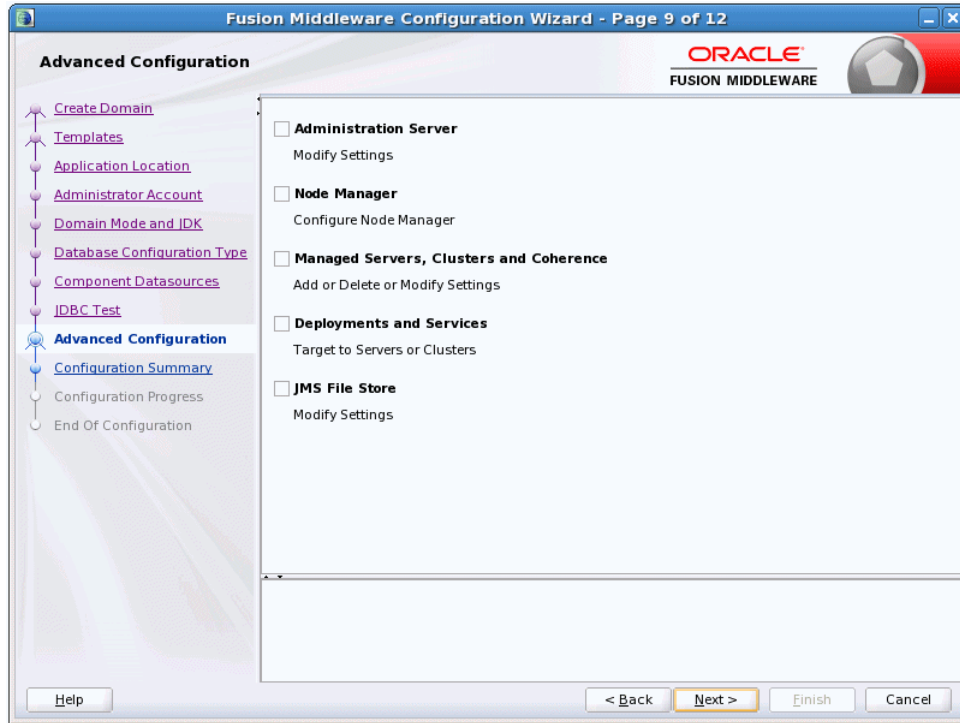
---

1. In the JDBC Data Sources section, select the data source for which you want to run the scripts. The scripts that can be executed are displayed in the SQL Files section.
2. Select the database version from the **DB Version** drop-down list.
3. Click **Run Scripts**.

All the scripts displayed in the SQL Files section for the selected data source are executed, and the results are displayed in the Results section. To capture test output in a log file, select the **Enable Logging** check box and specify the full path for the log file in the **Log File** field.

4. Repeat steps 1 through 3 for each data source for which you want to execute SQL scripts.
5. Click **Next** once you have executed all scripts.

## 5.19 Advanced Configuration



Select all categories (if any) for which you want to perform advanced configuration. For each category you select, the appropriate configuration screen is displayed to allow you to perform advanced configuration. If you do not select any items on this screen, the Configuration Summary screen is displayed next.

---

**Notes:** The categories that are listed on this screen depend on the resources defined in the templates you selected for the domain.

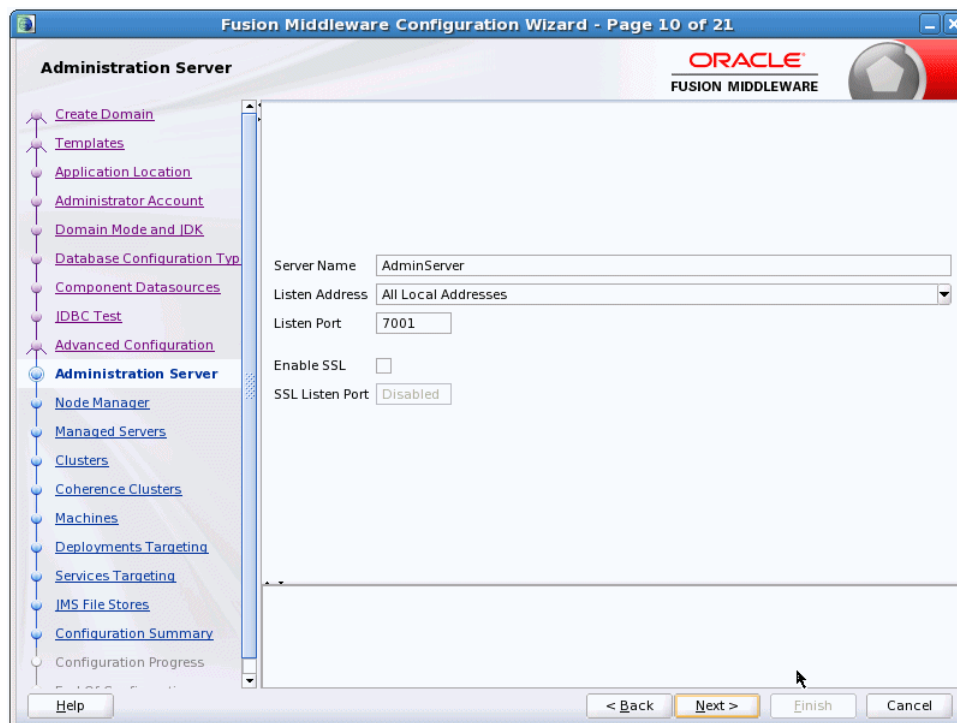
The **Administration Server** option is not available when you are extending a domain.

---

Option	Description
Administration Server	Select this option to modify Administration Server settings such as server name, listen address, listen port, and SSL settings. See <a href="#">Section 5.20, "Administration Server."</a>
Node Manager	Select this option to change the Node Manager type, Node Manager username and password, and Node Manager location. See <a href="#">Section 5.21, "Node Manager."</a>

Option	Description
Managed Servers, Clusters, and Coherence	<p>Select this option to</p> <ul style="list-style-type: none"> <li>■ Add Managed Servers, clusters, or machines to the domain</li> <li>■ Delete an existing Managed Server, cluster, or machine</li> <li>■ Add Managed Servers to an existing cluster</li> <li>■ Modify the settings for an existing Managed Server, cluster, or machine</li> <li>■ Configure the default Coherence cluster</li> </ul> <p>See <a href="#">Section 5.22, "Managed Servers,"</a> through <a href="#">Section 5.28, "Assign Servers to Machines."</a></p>
System Components	<p>Configure and target system components, such as Oracle HTTP Server (OHS).</p> <p>See <a href="#">Section 5.29, "System Components,"</a> through <a href="#">Section 5.32, "Assign System Components to Machines."</a></p>
Deployments and Services	<p>Select this option to customize how application deployments and services are targeted to servers and clusters.</p> <p>See <a href="#">Section 5.33, "Deployments Targeting,"</a> and <a href="#">Section 5.34, "Services Targeting."</a></p>
JMS File Store	<p>Select this option to change the settings for your JMS file stores. You can change the name, directory, and synchronous write policy for each file store.</p> <p>See <a href="#">Section 5.35, "JMS File Stores."</a></p>

## 5.20 Administration Server



The Administration Server is the central point from which you manage your domain. You can access the Administration Server by using the URL `protocol://listen-address:listen-port`. This is the network channel for the

Administration Server. Note that the network channel for each Administration Server must be unique. The *protocol* can be any of the following: *t3*, *t3s*, *http*, *https*.

From this screen, you can configure or change the following Administration Server settings.

Field/Option	Description
Server Name	<p>The default name is AdminServer. Valid server names are a string of characters (alphabetic and numeric).</p> <p>Each server instance in a production environment must have a unique name, regardless of the domain or cluster in which it resides, and regardless of whether it is an Administration Server or a Managed Server. The name of the Administration Server must be unique among all component names within the WebLogic domain.</p> <p>This value is specified only for identification purposes. It is not used as part of the URL for applications that are deployed on the server. The server name is displayed in the WebLogic Server Administration Console. If you use WebLogic Server command-line utilities or APIs, you must specify this name to identify the server.</p>
Listen address	<p>From the drop-down list, select a value for the listen address.</p> <p>For more information, see <a href="#">Section 5.20.1, "Specifying the Listen Address."</a></p>
Listen port	<p>Enter a valid value for the listen port to be used for regular, nonsecure requests (through protocols such as HTTP and T3). The default value is 7001 for the Administration Server. If you leave this field blank, the default value is used. The valid listen port range is from 1 to 65535.</p> <p>For more information, see <a href="#">Section 5.20.2, "Specifying the Listen Port."</a></p>
Enable SSL	<p>Select this check box to enable the SSL listen port. By default, SSL is disabled for all new servers.</p>
SSL listen port	<p>This field is enabled only if you selected the <b>SSL enabled</b> check box.</p> <p>Enter a valid value to be used for secure requests (through protocols such as HTTPS and T3S). The default value is 7002. If you leave this field blank, the default value is used. The valid listen port range is from 1 to 65535.</p> <p>By default, a server instance uses demonstration certificates to authenticate requests from a secure port. In a production environment, you must configure SSL to use certificates from a certificate authority.</p> <p>For more information, see "Configuring SSL" in <i>Administering Security for Oracle WebLogic Server</i>.</p>
Server Groups	<p>This drop-down list is displayed only if at least one selected template defines a user-expandable server group.</p> <p>You have the option to assign a user-expandable server group to the Administration Server, causing all application service groups that are defined for that server group to be assigned to the Administration Server.</p> <p>For more information on server groups, see "config-groups.xml and startup-plan.xml" in <i>Domain Template Reference</i>.</p>



## 5.20.1 Specifying the Listen Address

This section provides guidelines for specifying the listen address for the Administration Server. These guidelines also apply to all Managed Servers.

If you select **localhost** as the listen address for a server instance, remote processes cannot connect to that server instance. Only processes on the machine that hosts the server instance can connect to the server instance. If the server instance must be accessible as localhost (for example, if you create administrative scripts that connect to localhost), and it must also be accessible by remote processes, select **All Local Addresses**. The server instance determines the address of the machine and listens on it.

The following table describes the behavior of each listen address type.

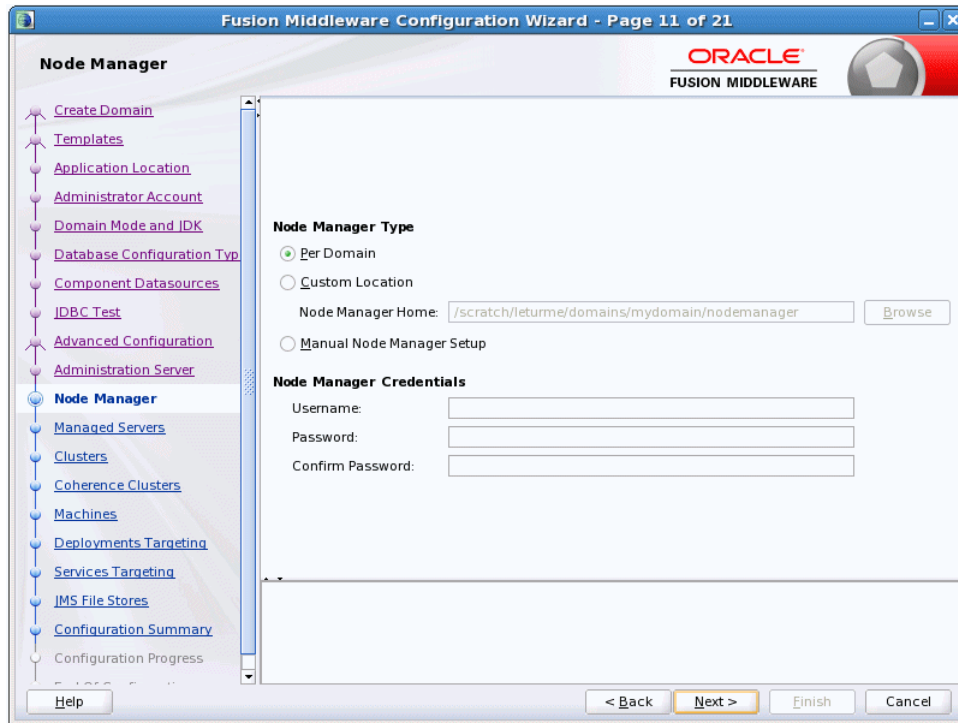
Type	Description
All Local Addresses or a DNS name	On multi-homed Windows machines, a server instance binds to all available IP addresses.
An IP address or a DNS name	<p>When using an IP address or DNS name</p> <ul style="list-style-type: none"> <li>■ To connect to the server instance, processes can specify either the IP address or the corresponding DNS name</li> <li>■ Processes that specify localhost fail to connect</li> <li>■ You must update existing processes that use localhost to connect to the server instance</li> <li>■ For connections that specify the IP address for the listen address and a secured port for the listen port, host name verification must be disabled.</li> </ul> <p><b>Note:</b> To resolve a DNS name to an IP address, WebLogic Server must be able to contact an appropriate DNS server or obtain the IP address mapping locally. Therefore, if you specify a DNS name for the listen address, you must either leave a port open long enough for the WebLogic Server instance to connect to a DNS server and cache its mapping or you must specify the IP address mapping in a local file. If you specify an IP address for the listen address, and a client request then specifies a DNS name, WebLogic Server attempts to resolve the DNS name. If it cannot access DNS name mapping, the request fails.</p>
localhost	<p>When using localhost</p> <ul style="list-style-type: none"> <li>■ Processes must specify localhost to connect to the server instance</li> <li>■ Only processes that reside on the machine that hosts the server instance (local processes) can connect to the server instance.</li> </ul>

## 5.20.2 Specifying the Listen Port

Note the following guidelines when specifying the listen port for the Administration Server. These guidelines also apply to Managed Servers.

- Although you can specify any valid port number, if you specify port 80, you can omit the port number from the HTTP request used to access resources over HTTP. For example, if you define port 80 as the listen port, you can use the URL `http://hostname/myfile.html` instead of `http://hostname:portnumber/myfile.html`.
- On some operating systems, port 80 can be accessed only by processes run under a privileged user or group ID. In this case, you can assign the server instance to a UNIX machine on which a post-bind UID or GID is defined.

## 5.21 Node Manager

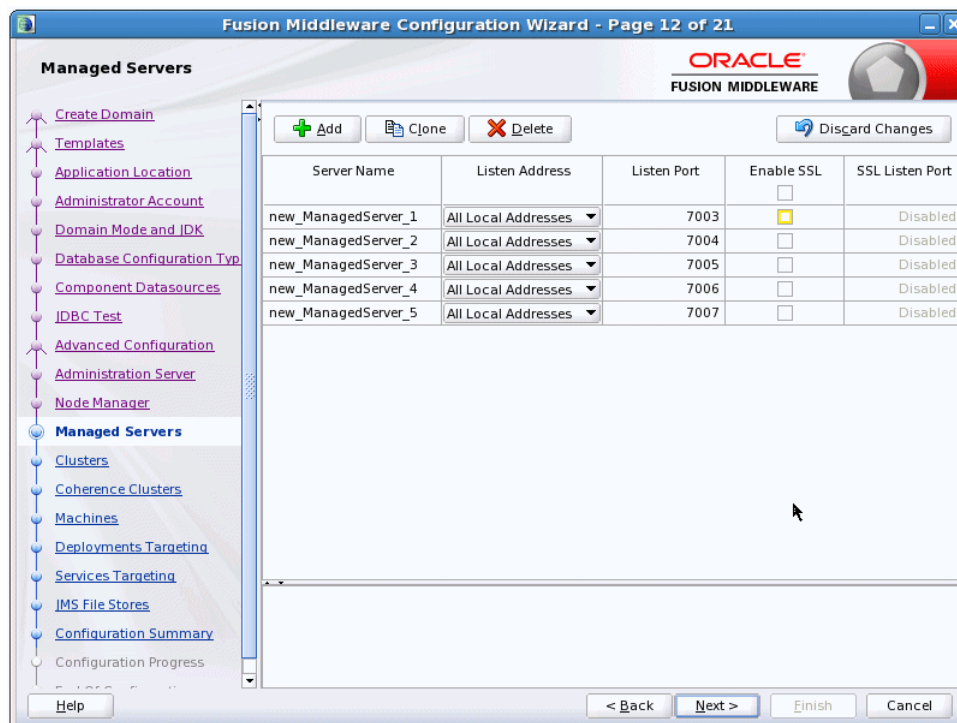


Use this screen to select the Node Manager configuration to use for this domain. Whenever you start the Node Manager for a domain it looks for the `nodemanager.properties` file in the Node Manager home directory.

Option/Field	Description
Node Manager Type	Select one of the following Node Manager types.
Per Domain	If you select this option, the Node Manager home is predefined within the domain as <code>&lt;domain_name&gt;/nodemanager</code> and you cannot edit the Node Manager home. The Node Manager for each domain can have a different configuration, as determined by the files in this directory.
Custom Location	Select this option if you want the Node Manager configuration files to be created in a specific location for this domain. Specify the directory in the <b>Node Manager Home</b> field, or click <b>Browse</b> to navigate to the location. The specified directory must be empty. The <code>nodemanager.properties</code> and <code>nodemanager.domains</code> files will be created in this directory.
Manual Node Manager Setup	If you select this option, creation of the Node Manager configuration for the domain is skipped, and you must manually create and update the Node Manager configuration for the domain.  For more information about Node Manager configuration, see <i>Administering Node Manager for Oracle WebLogic Server</i> .
Username	The username and password that is used to start the specified Node Manager.
Password	
Confirm Password	

Option/Field	Description
Node Manager Home	If you selected the <b>Custom Location</b> option, click <b>Browse</b> and navigate to the directory location of the Node Manager that you want to use.

## 5.22 Managed Servers



From this screen, you can add, delete, or clone Managed Servers, and assign a user-expandable server group (if available) to a Managed Server. You can also change the settings for an existing Managed Server.

---

**Note:** You can create Managed Servers on remote machines by using the `pack` and `unpack` commands.

For more information, see "Creating and Starting a Managed Server on a Remote Machine" in *Creating Templates and Domains Using the Pack and Unpack Commands*.

---

Column	Description
Server Name	Valid server names are a string of characters (alphabetic and numeric). The name must be unique in the domain.
Listen Address	From the drop-down list, select a value for the listen address. See <a href="#">Section 5.20.1, "Specifying the Listen Address"</a> for information about the available values.

Column	Description
Listen port	<p>Enter a valid value for the listen port to be used for regular, nonsecure requests (through protocols such as HTTP and T3). The default value is the next available listen port. If you leave this field blank, the default value is used. The valid listen port range is from 1 to 65535.</p> <p>For more information, see <a href="#">Section 5.20.2, "Specifying the Listen Port."</a></p>
Enable SSL	Select this check box to enable the SSL listen port. By default, SSL is disabled for all new servers.
SSL listen port	<p>This field is enabled only if you selected the SSL enabled check box for the server.</p> <p>Enter a valid value to be used for secure requests (through protocols such as HTTPS and T3S). The default value is the next available listen port. If you leave this field blank, the default value is used. The valid listen port range is from 1 to 65535.</p>
Server Groups	<p>If any of the templates you selected to create or update your domain contain a user-expandable server group definition, the <b>Server Groups</b> column is displayed. For each Managed Server, select the check box for each server group you want to assign to the server. Only server groups that are defined as user-selectable are displayed in the list. Typically, you should accept the defaults for Fusion Middleware product servers.</p> <p><b>Note:</b> If you clone a Managed Server, the server group assignments are identical to the original server. Cloning is recommended for creating additional Fusion Middleware product servers.</p> <p>The selected server group determines the applications and services that are mapped to a given Managed Server. For example, if you select the OVAB_MAN_SVR group for a server, all applications and services that are mapped to that server group in the config-groups.xml file for the domain are automatically targeted to the server.</p> <p>For more information on server groups, see "config-groups.xml and startup-plan.xml" in <i>Domain Template Reference</i>.</p>

To add a server, click **Add** and configure the settings for the new server. The default name for a new server is `new_ManagedServer_n`, where `n` starts at 1 and increments for each new server you add.

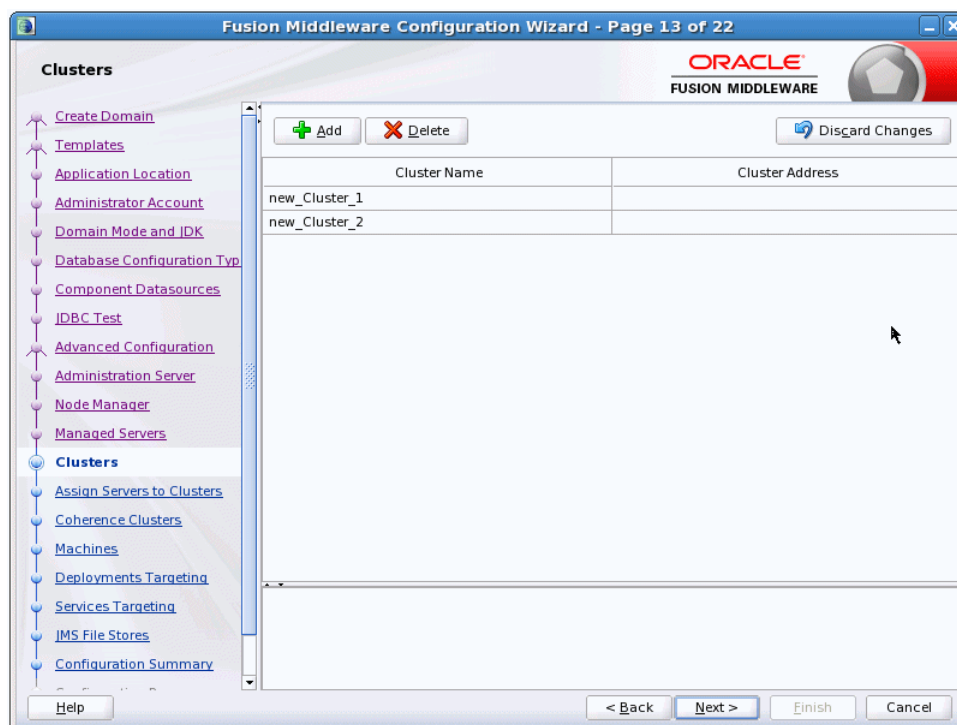
To clone a server, click in the row for the server you want to clone, and then click **Clone**. The default name for the new clone is `original_server_name_clonen`, where `n` starts at 1 and increments for each new server that you clone from that server. When you create a Managed Server that is a clone of an existing Managed Server, all applications and libraries that are targeted to the source server are also deployed to the clone. The cloned server is also assigned to all server groups to which the source server is assigned (if any). In addition, any of the following services that are targeted to the source server are automatically targeted to the clone:

- `connectionFactory`
- `queueConnectionFactory`
- `topicConnection`
- `Queue`
- `Topic`

- activationSpec
- Data source
- URLProvider
- workManager
- busMember
- customService
- resourceAdapter

To delete a server, select the server and click **Delete**. You can delete only one server at a time.

## 5.23 Clusters



A cluster is a group of WebLogic Server instances that work together to provide scalability and high-availability for applications. By creating clusters, you can group Managed Servers such that they operate as a single unit for hosting applications and resources.

Use this screen to add or delete clusters. You can also change the settings for an existing cluster.

Column	Description
Cluster Name	Enter a valid name. The name of the cluster must be unique among all component names within the WebLogic domain.

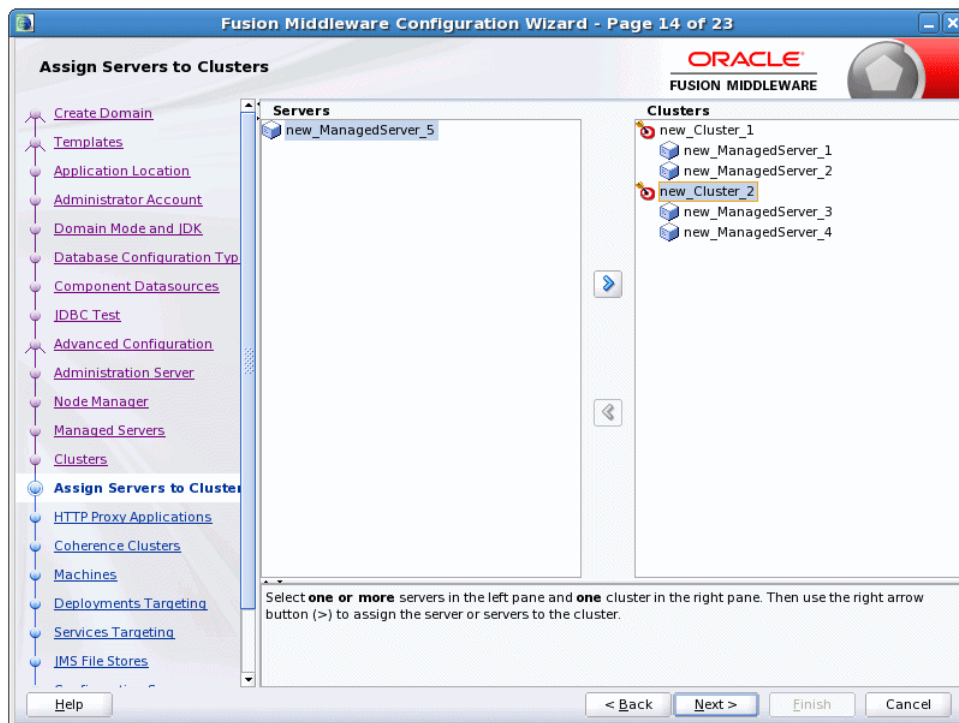
Column	Description
Cluster Address	<p>Enter the addresses for identifying the Managed Servers in the cluster. A cluster address can be one of the following:</p> <ul style="list-style-type: none"> <li>Comma-separated list of IP addresses or DNS names and ports (for example: dns_name:port, dns_name:port)</li> <li>DNS name that maps to multiple IP addresses</li> <li>localhost, DNS name, or IP address if the listen address of all Managed Servers is listening to the same address with unique port numbers</li> </ul>

To delete a cluster, select the server and click **Delete**. When you delete a cluster, you do not delete the servers assigned to it; the servers are merely removed from the cluster and can then be added to another cluster. You can delete only one cluster at a time.

To add a cluster, click **Add** and configure the settings for the new server. The default name for a new cluster is `new_Cluster_n`, where *n* starts at 1 and increments for each new cluster you add. To change the default, type the desired name in the **Name** column.

For more information about clusters, see "Setting Up WebLogic Clusters" in *Administering Clusters for Oracle WebLogic Server*.

## 5.24 Assign Servers to Clusters



Use this screen to assign Managed Servers to clusters.

---

**Note:** Only Managed Servers are displayed in the **Server** list box. The Administration Server is not listed because it cannot be assigned to a cluster.

---

To assign one or more servers to a cluster:

1. In the **Clusters** list box, select the cluster to which you want to assign a Managed Server.
2. Assign Managed Servers to the selected cluster in one of the following ways:
  - Double-click the name of the Managed Server in the **Servers** list box.
  - Select the Managed Server and click the right arrow.
  - Shift+click to select multiple Managed Servers; then, click the right arrow.

The name of the Managed Server is removed from the **Servers** list box and added below the name of the target cluster in the **Clusters** list box.

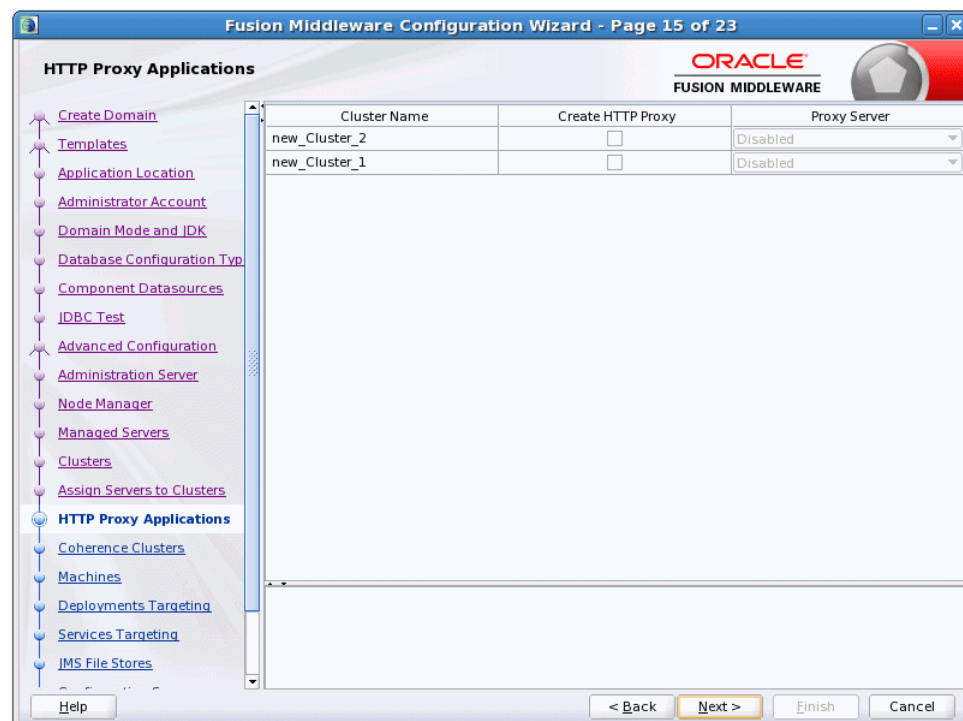
3. Repeat steps 1 and 2 for each Managed Server to assign to a cluster.
4. Review the cluster assignments.

If necessary, you can remove a Managed Server from a cluster in one of the following ways:

- Double-click the name of the Managed Server in the **Clusters** list box.
- Select the Managed Server and click the left arrow.

The name of the Managed Server is removed from the **Clusters** list box and restored to the **Servers** list box.

## 5.25 HTTP Proxy Applications





An HTTP proxy application acts as an intermediary for HTTP requests.

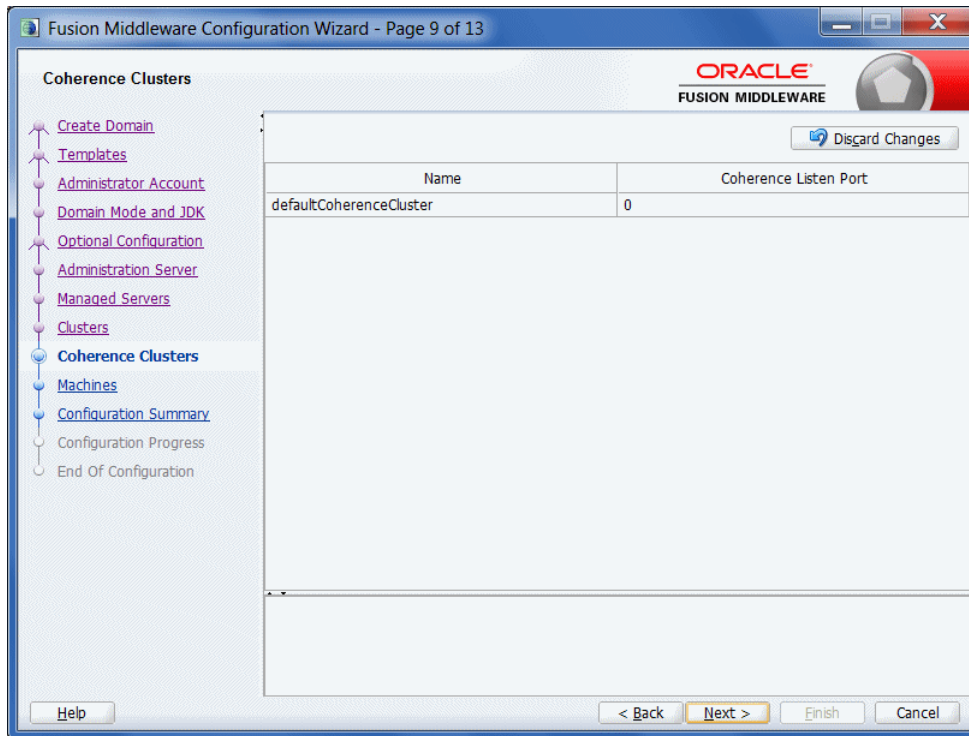
Use this screen to create an HTTP proxy application for each cluster, and specify the Managed Server on which the proxy application must be deployed.

This screen is displayed only if both of the following statements are true:

- At least one Managed Server is assigned to a cluster.
- At least one Managed Server is not assigned to any cluster.

Column	Description
Cluster Name	This column lists each cluster in the domain.
Create HTTP Proxy	Select this check box for each cluster on which you want to deploy the HTTP proxy application.
Proxy Server	This drop-down list contains all Managed Servers that are not assigned to a cluster. Select the Managed Server on which to deploy the proxy application.  A proxy application named <code>OracleProxy4_clusname_servername</code> is created and deployed on the Managed Server.

## 5.26 Coherence Clusters



This screen is displayed only if you included Coherence in the WebLogic Server installation. It lists the Coherence cluster that is automatically added to the domain.

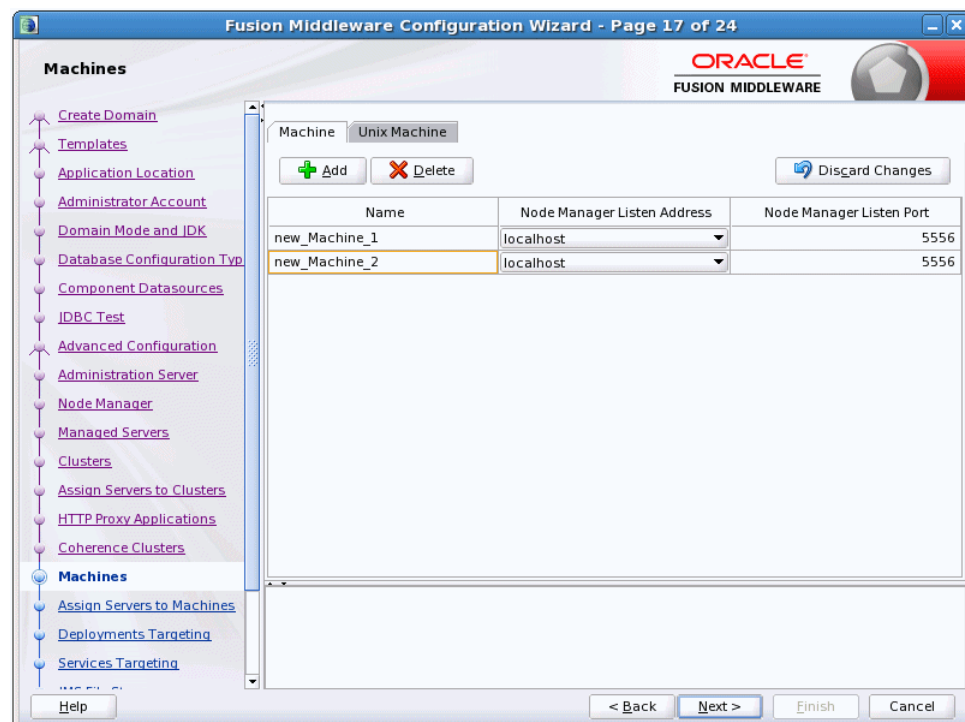


Column	Description
Name	Accept the default cluster name or type a new name for the Coherence cluster.  When updating a domain, if you have added additional Coherence clusters to the domain via WLST or the Administration Console, they are also listed here.
Coherence Listen Port	Enter the port number to use as the Coherence cluster listen port.

When including a Coherence cluster in a domain:

- All Managed Servers and clusters that you configure in the domain during future Configuration Wizard sessions are automatically added to the Coherence cluster.
- Servers and clusters that already exist in the domain before you add a Coherence cluster to the domain are not automatically assigned to the Coherence cluster. If desired, you can manually assign them to the Coherence cluster via a WLST script or the Administration Console.
- When creating a domain via the Configuration Wizard, if the domain contains only an Administration Server and no Managed Servers, the Administration Server is automatically assigned to the Coherence cluster. If, however, at least one Managed Server is added to the domain during domain creation, the Administration Server is not assigned to the Coherence cluster.
- If there are multiple Coherence clusters in the domain (for example, you added a second Coherence cluster via WLST or the Administration Console), any servers or clusters that you subsequently add to the domain via the Configuration Wizard are automatically assigned to the first Coherence cluster that is listed on the Coherence Clusters screen.

## 5.27 Machines



In a WebLogic domain, the machine definitions identify physical units of hardware and are associated with the WebLogic Server instances or system components (such as OHS servers) that they host.

Use this screen to add or delete machines, or to modify the settings for an existing machine. Each machine has the following configuration settings.

Select the **Machine** tab (for Windows) or the **UNIX Machine** tab (for UNIX).

Column	Description
Name	Enter a valid machine name. The machine name is used to identify the machine within the WebLogic domain; it does not have to match the network name for the machine. The name must be unique among all component names within the domain.
Node Manager Listen Address	Select a value from the drop-down list for the listen address used by Node Manager to listen for connection requests. By default, the IP addresses defined for the local system and localhost are shown in the drop-down list. The default value is localhost.  If you specify an IP address for a machine that hosts the Administration Server and you need to access the WebLogic Server Node Manager, you must disable host name verification.  For more information, see "Using Host Name Verification" in <i>Administering Security for Oracle WebLogic Server</i> .
Node Manager Listen Port	Enter a valid value for the listen port used by Node Manager to listen for connection requests.  The valid Node Manager listen port range is from 1 to 65535. The default value is 5556.
Post bind GID enabled	(UNIX machines only) Select this check box to enable a server running on this machine to bind to a UNIX group ID (GID) after it finishes all privileged startup actions. By default, this check box is not selected.
Post bind GID	(UNIX machines only) Enter the UNIX group ID (GID) under which a server on this machine will run after it finishes all privileged startup actions. Otherwise, the server continues to run under the group from which it was started. For this setting to take effect, you must select the <b>Post bind GID enabled</b> check box.
Post bind UID enabled	(UNIX machines only) Select this check box to enable a server running on this machine to bind to a UNIX user ID (UID) after it finishes all privileged startup actions. By default, this check box is not selected.
Post bind UID	(UNIX machines only) Enter the UNIX user ID (UID) under which a server on this machine will run after it finishes all privileged startup actions. Otherwise, the server continues to run under the account from which it was started. For this setting to take effect, you must select the <b>Post bind UID enabled</b> check box.

You might want to create machine definitions in situations such as the following:

- The Administration Server uses the machine definition, with the Node Manager application, to start remote servers.
- WebLogic Server or other system components such as OHS use configured machine names when determining the server in a cluster that is best able to handle certain tasks, such as HTTP session replication. Those tasks are then delegated to the identified server.

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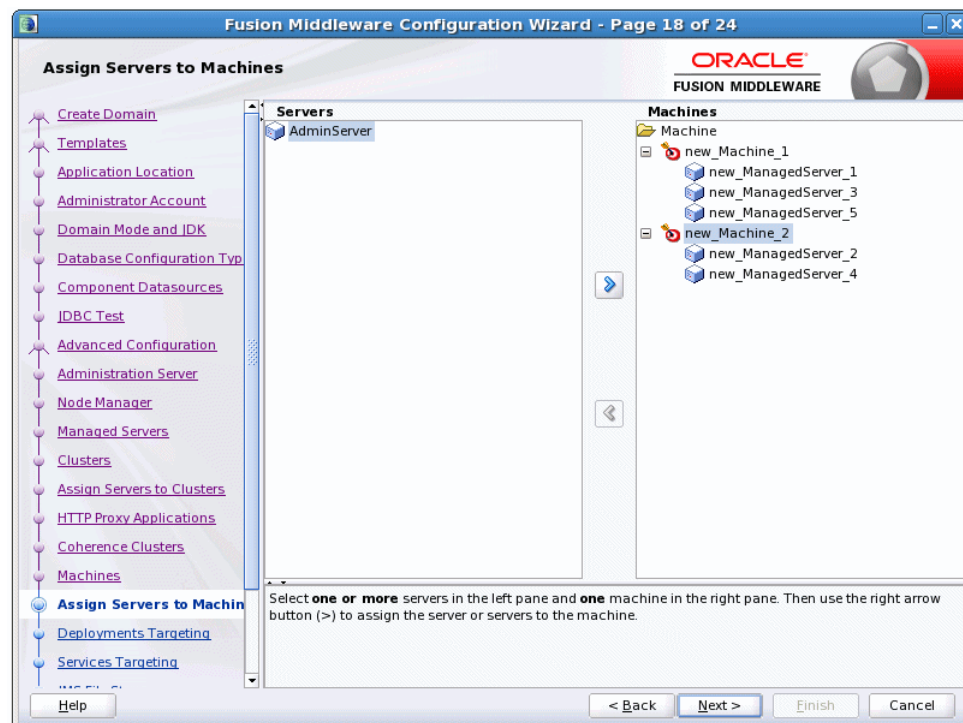
**Note:** You must configure machines for each product installation that runs a Node Manager process. The machine configuration must include values for the listen address and port number parameters.

---

Click **Add** to add a new machine. The default name for a new machine is new\_[Unix]Machine\_n, where n starts at 1 and increments by 1 for each machine that you add.

Click **Delete** to delete an existing machine.

## 5.28 Assign Servers to Machines



Use this screen to assign WebLogic Server instances to each of the machines you defined.

1. In the **Machine** list box, select the Windows or UNIX machine to which you want to assign a WebLogic Server instance.
2. Assign WebLogic Server instances to the selected machine in one of the following ways:
  - Double-click the WebLogic Server instance in the **Server** list box.
  - Select the appropriate WebLogic Server instance in the **Server** list box and click the right arrow.
  - Shift+click to select multiple servers in the **Server** list box; then, click the right arrow.

The name of the WebLogic Server instance is removed from the **Server** list box and added, below the name of the target machine, in the **Machine** list box.

3. Repeat steps 1 and 2 for each WebLogic Server instance to assign to a machine.

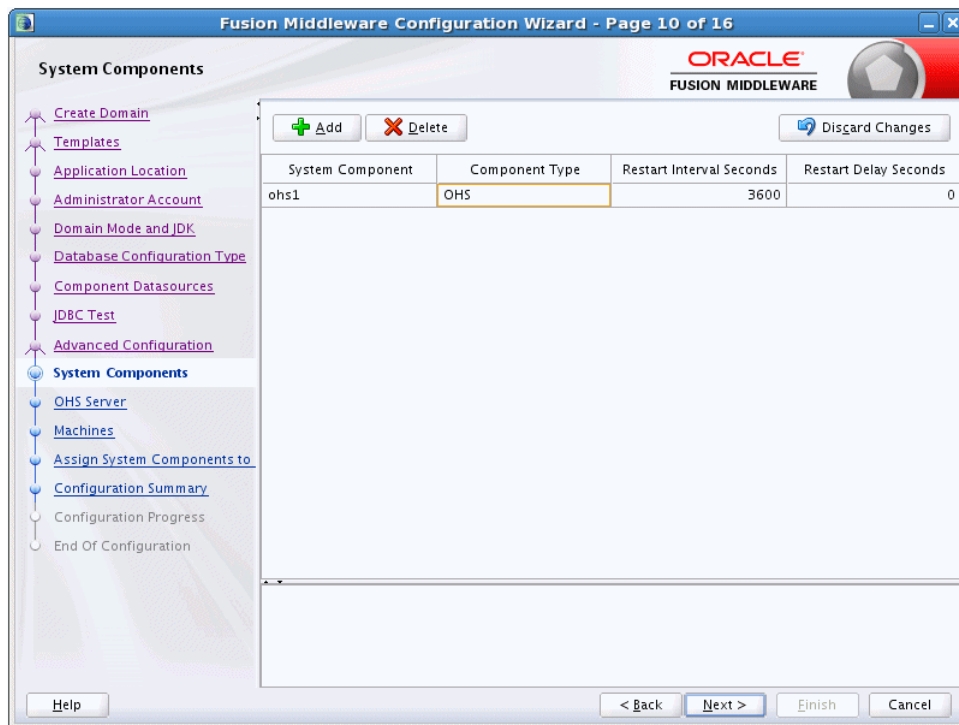
#### 4. Review the machine assignments.

If necessary, you can remove a WebLogic Server instance from a machine in one of the following ways:

- Double-click the name of the appropriate WebLogic Server instance in the **Machine** list box.
- Select the appropriate WebLogic Server instance in the **Machine** list box and click the left arrow.

The name of the WebLogic Server instance is removed from the **Machine** list box and restored to the **Server** list box.

## 5.29 System Components



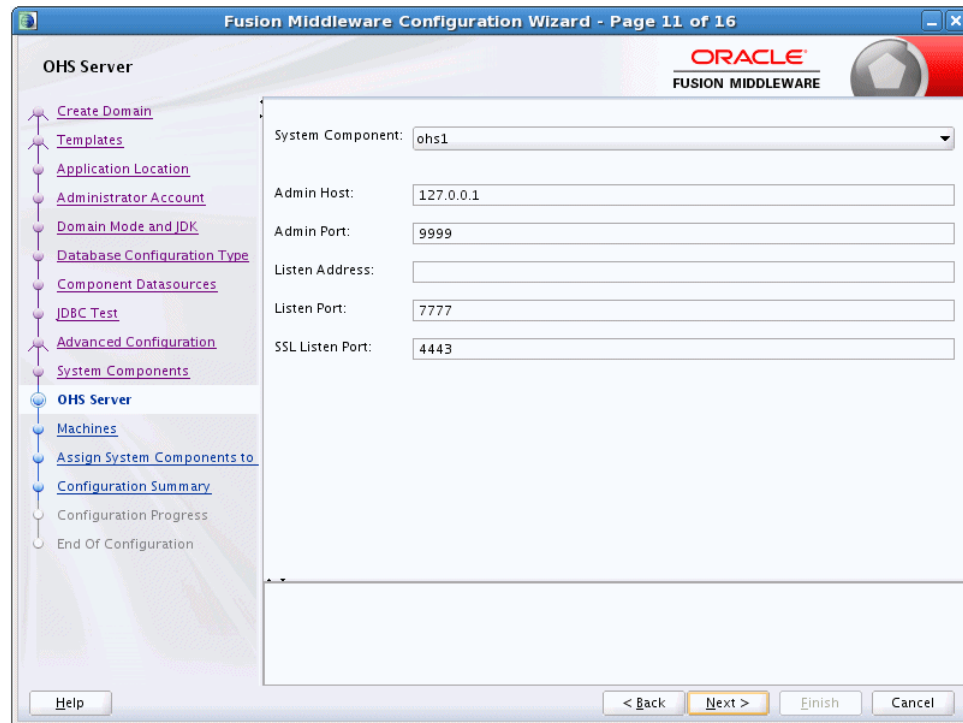
Use this screen to add or delete system components, such as for OHS or ODI.

Field	Description
System Component	Enter a unique name to identify the system component.
Component type	Enter the appropriate component type, such as OHS or ODI.
Restart interval seconds	Specify the number of seconds to wait before attempting a restart if an application is not responding.
Restart interval delay	Specify the number of seconds to wait between restart attempts.

Click **Add** to add a new system component. The default name for a new component is `new_SystemComponentn`, where `n` starts at 1 and increments by 1 for each OHS or ODI instance that you add.

To delete an existing system component, click in the table row for the component and click **Delete**.

## 5.30 OHS Server

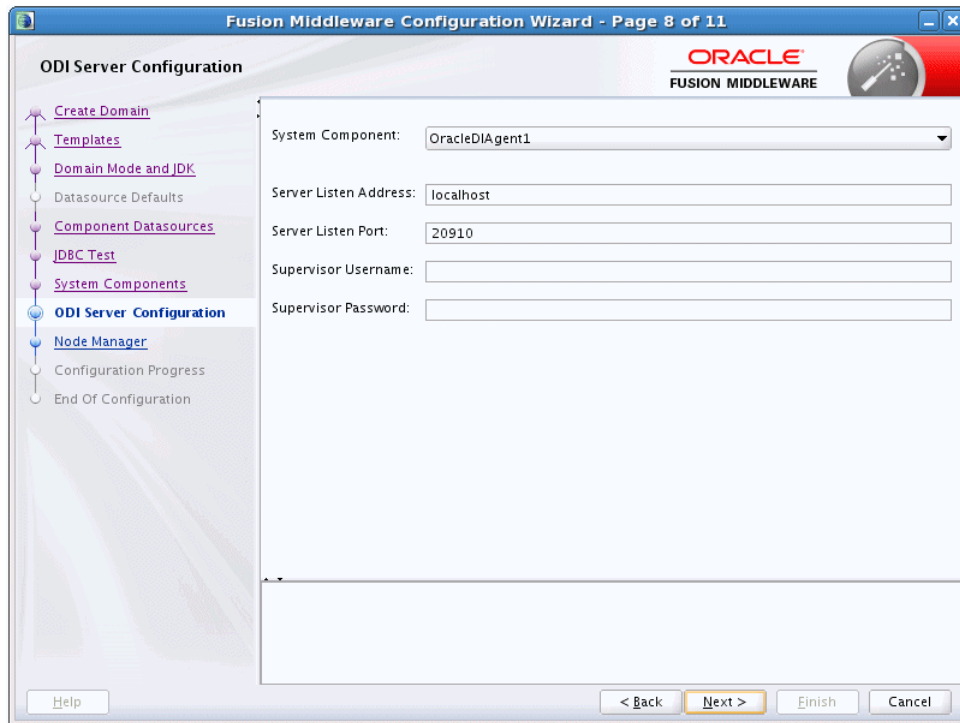


Use this screen to configure the OHS servers in your domain.

Field	Description
System Component	From this drop-down list, select the system component to configure.
Admin Host	The listen address to use for the selected OHS server for communication with Node Manager. The address should only allow loopback communication within the host (for example, 127.0.0.1).
Admin Port	The listen port to use for the selected OHS server for communication with Node Manager on this system. The port must be unique.
Listen Address	Enter the listen address to use on this system component. For more information about listen addresses, see <a href="#">Section 5.20.1, "Specifying the Listen Address."</a>
Listen Port	Enter the listen port to use on this system component. For more information about listen ports, see <a href="#">Section 5.20.2, "Specifying the Listen Port."</a>

Field	Description
SSL Listen Port	<p>This field is available only if SSL is enabled on the specified WebLogic Server Administration Server.</p> <p>Enter a valid value to be used for secure requests on this server instance. The valid listen port range is from 1 to 65535.</p> <p>By default, a server instance uses demonstration certificates to authenticate requests from a secure port. In a production environment, you must configure SSL to use certificates from a certificate authority.</p> <p>For more information, see "Configuring SSL" in <i>Administering Security for Oracle WebLogic Server</i>.</p>

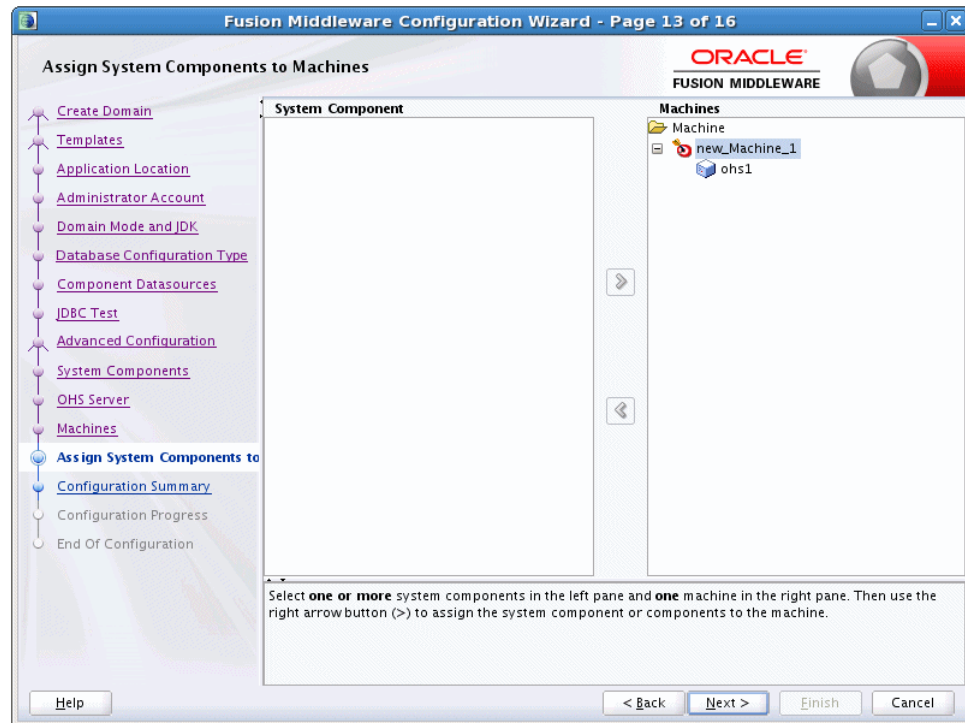
### 5.31 ODI Server Configuration



Use this screen to configure the ODI servers in your domain.

Field	Description
System Component	From this drop-down list, select the system component to configure.
Server Listen Address	Enter the listen address to use for ODI.
Server Listen Port	Enter the listen port to use for ODI.
Supervisor Username	Enter the ODI username that has Supervisor privileges.
Supervisor Password	Enter the Supervisor user's password.

## 5.32 Assign System Components to Machines



Use this screen to assign system components to machines that you defined.

1. In the **Machine** list box, select the Windows or UNIX machine to which you want to assign a system component.
2. Assign system components to the selected machine in one of the following ways:
  - Double-click the instance in the **System Components** list box.
  - Select the appropriate instance in the **System Components** list box and click the right arrow.
  - Shift+click to select multiple instances in the **System Components** list box; then, click the right arrow.

The name of the system component is removed from the **System Components** list box and added, below the name of the target machine, in the **Machine** list box.

3. Repeat steps 1 and 2 for each instance to assign to a machine.
4. Review the machine assignments.

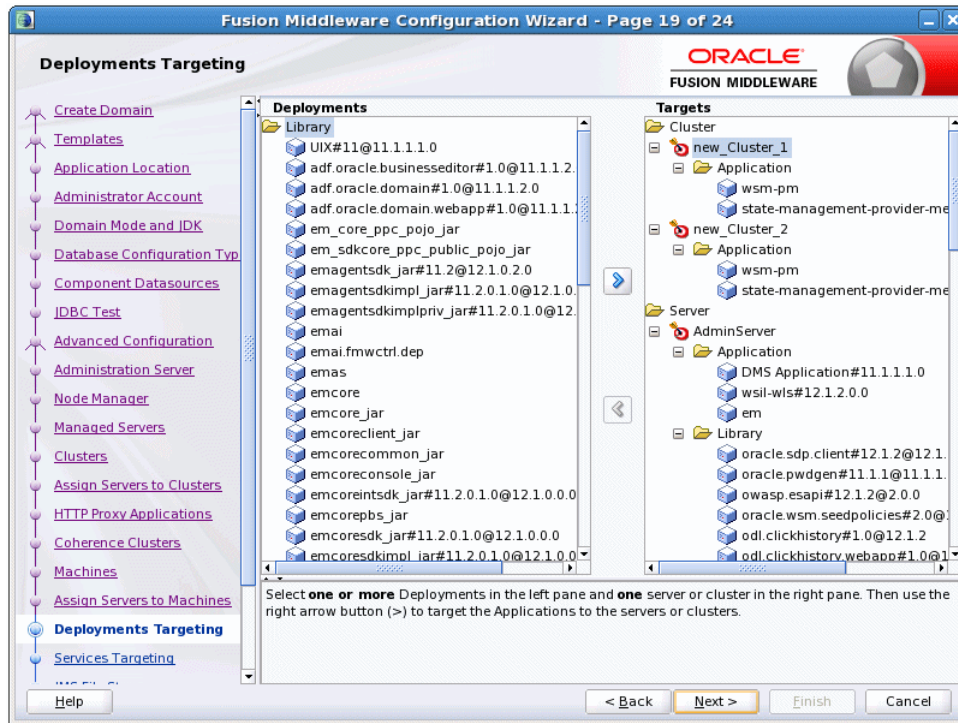
If necessary, you can remove an instance from a machine in one of the following ways:

- Double-click the name of the appropriate instance in the **Machine** list box.
- Select the appropriate instance in the **Machine** list box and click the left arrow.

The name of the instance is removed from the **Machine** list box and restored to the **System Components** list box.



## 5.33 Deployments Targeting



Use this screen to target applications for deployment on servers or clusters.

Applications associated with the product for which you are configuring the domain are targeted automatically to the Managed Server created for that product or to the cluster to which that Managed Server is assigned. In this screen, you can target applications to additional servers and clusters.

To target an application deployment to a cluster or server:

1. In the Target list box, select the cluster or server on which you want to deploy applications.  
The name of the selected target is displayed as the title of the list box on the right.
2. In the *target\_name* list box, select the check boxes corresponding to the applications to deploy on the selected target.

The applications displayed here vary, depending on the products that you selected in the Select Domain Source screen, earlier in the wizard.

---

**Note:** When you select a Managed Server in the Target list box, some of the check boxes in the *target\_name* list box might be disabled, indicating applications that are already targeted at the cluster that contains the selected Managed Server.

---

After you select applications, the names of the targeted clusters and servers are displayed in the Target column in the *target\_name* list box.

3. Repeat steps 1 and 2 for the other clusters and servers, as required.
4. After making the required selections, click **Next**.



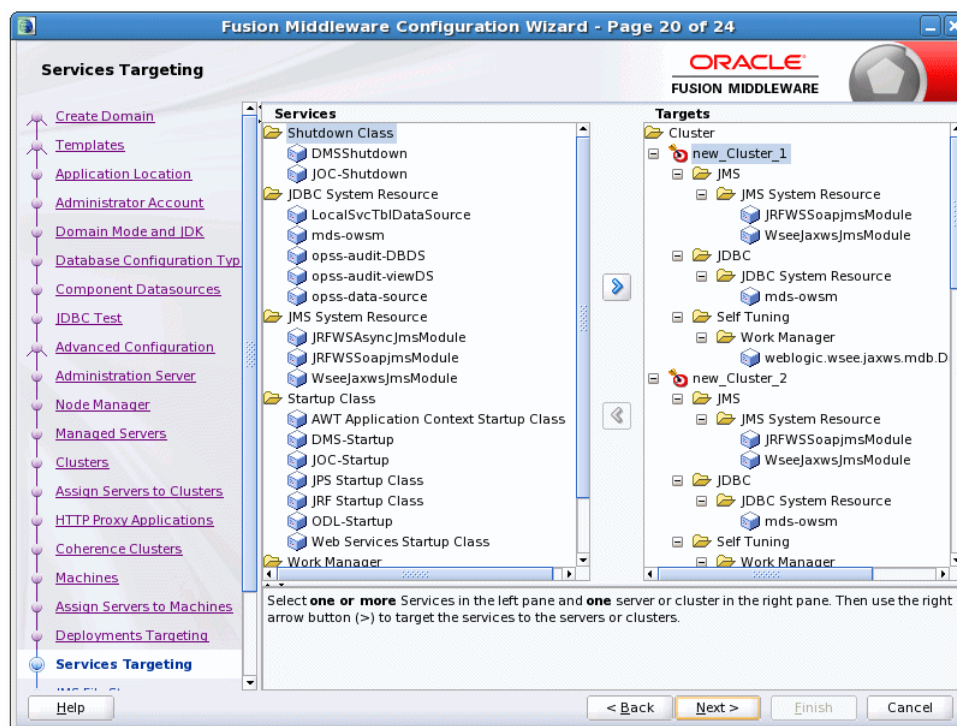
When you extend a domain, if you delete a Managed Server or cluster to which applications are currently targeted, the Configuration Wizard automatically retargets those applications as follows:

- If the applications were originally targeted solely to the Managed Server or cluster that you are now deleting (that is, after you delete the Managed Server or cluster, the applications would become untargeted in the modified domain), then the Configuration Wizard automatically retargets the applications to all *eligible* targets.

An eligible target is any cluster or Managed Server that is not defined in the configuration groups specification (`config-groups.xml` file) of an included template. Servers or clusters that are specified in `config-groups.xml` are essentially owned by the template and, therefore, are not eligible for automatic targeting.

- If the applications were originally targeted to multiple targets (including Managed Servers, clusters, and the Administration Server), and one of the targeted Managed Servers or clusters is deleted, then, in the extended domain, the Configuration Wizard leaves the remaining target associations intact and does not attempt to retarget the applications.

## 5.34 Services Targeting



Use this screen to target services to the appropriate Managed Servers or clusters.

Services that are associated with the product for which you are configuring the domain are targeted automatically, to the Managed Server created for that product or to the cluster to which that Managed Server is assigned. In this screen, you can target services to additional servers and clusters.

To target services to Managed Servers or clusters:

1. In the **Target** list box, select the cluster or server on which you want to deploy services.

The name of the selected target is displayed as the title of the list box on the right.

2. In the *target\_name* list box, select the check boxes corresponding to the services to deploy on the selected target.

The services displayed here vary, depending on the products that you selected in the Select Domain Source screen earlier in the wizard.

---

---

**Note:** When you select a Managed Server in the Target list box, some of the check boxes in the *target\_name* list box might be disabled, indicating services that are already targeted at the cluster that contains the selected Managed Server.

---

---

After you select services, the names of the targeted clusters and servers are displayed in the **Target** column in the *target\_name* list box.

3. Repeat steps 1 and 2 for the other clusters and servers, as required.
4. After making the required selections, click **Next**.

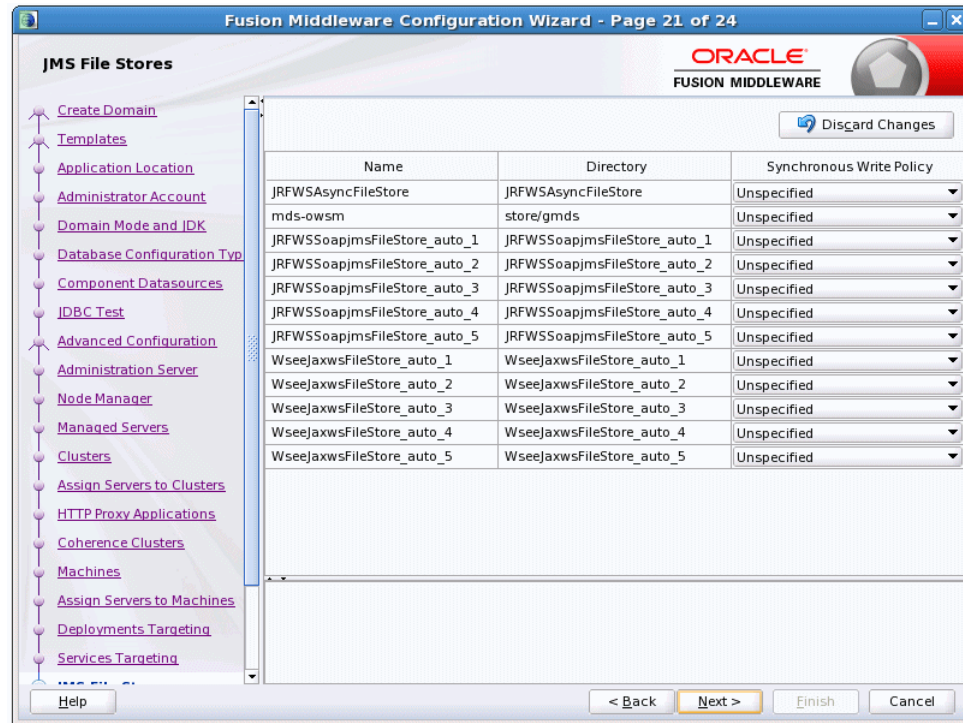
When you extend a domain, if you delete a Managed Server or cluster to which services are currently targeted, the Configuration Wizard automatically retargets those services as follows:

- If the services were originally targeted solely to the Managed Server or cluster that you are now deleting (that is, after you delete the Managed Server or cluster, the services would become untargeted in the modified domain), then the Configuration Wizard automatically retargets the services to all *eligible* targets.

An eligible target is any cluster or Managed Server that is not defined in the configuration groups specification (*config-groups.xml* file) of an included template. Servers or clusters that are specified in *config-groups.xml* are essentially owned by the template and, therefore, are *not* eligible for automatic targeting.

- If the services were originally targeted to multiple targets (including Managed Servers, clusters, and the Administration Server), and one of the targeted Managed Servers or clusters is deleted, then, in the extended domain, the Configuration Wizard leaves the remaining target associations intact and does not attempt to retarget the services.

## 5.35 JMS File Stores



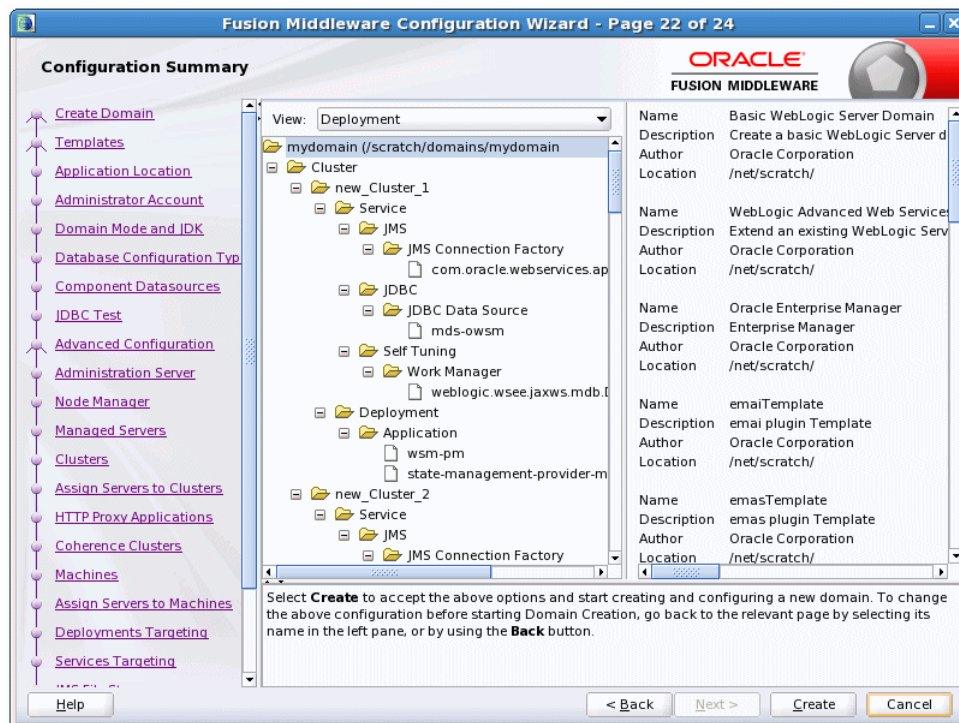
A JMS file store is a disk-based file in which persistent messages can be saved.

Use this screen to modify the JMS file stores that are configured in your domain. It contains the following fields.

Column	Description
Name	Enter a valid name for the JMS file store. The name must be a string of characters. The name of the JMS file store must be unique among all component names within the domain.
Directory	Enter the path of the directory (in your system) in which the JMS file store resides.
Synchronous write policy	From the drop-down list, select one of the following synchronous write policies to determine how the file store writes data to the disk.  If the JMS file store is used exclusively for paging non-persistent messages to the disk, the synchronous write policy is ignored.
Cache-Flush	WebLogic Server enables the default file write behavior of the operating system and storage device, which typically includes caching and scheduling file writes, but forces a flush of the cache to disk before completing a transaction.  For more information, see "Cache-Flush Policy" in <i>Administering Server Environments for Oracle WebLogic Server</i> .
Direct Write	WebLogic Server writes synchronously to a primary set of files in the location defined by the Directory attribute of the file store configuration using a native I/O wfileio driver.  For more information, see "Direct-Write Policy" in <i>Administering Server Environments for Oracle WebLogic Server</i>

Column	Description
Direct-Write-With-Cache	<p>For most scenarios, Oracle recommends using the Direct-Write-With-Cache policy. When this policy is selected, WebLogic Server writes synchronously to a primary set of files in the location defined by the Directory attribute of the file store configuration using a native I/O wfileio driver.</p> <p>For more information, see "Direct-Write-With-Cache Policy" in <i>Administering Server Environments for Oracle WebLogic Server</i>.</p>
Disabled	<p>WebLogic Server relies on the default file write behavior of the operating system and storage device.</p> <p>For more information, see "Disabled Policy" in <i>Administering Server Environments for Oracle WebLogic Server</i>.</p>
Direct-Write	<p>Write operations are performed directly to the disk. This policy is supported on Solaris and Windows. If this policy is active on an unsupported platform, the file store switches automatically to the cache-flush policy.</p> <p>For more information, see "Direct-Write Policy" in <i>Administering Server Environments for Oracle WebLogic Server</i>.</p>
Disabled	<p>Transactions are complete as soon as the writes are cached in memory. When this policy is active, completion of transactions does not depend on waiting for writes to reach the disk.</p> <p>This setting affects performance, scalability, and reliability.</p>

## 5.36 Configuration Summary



Review the detailed configuration settings of your domain before continuing.

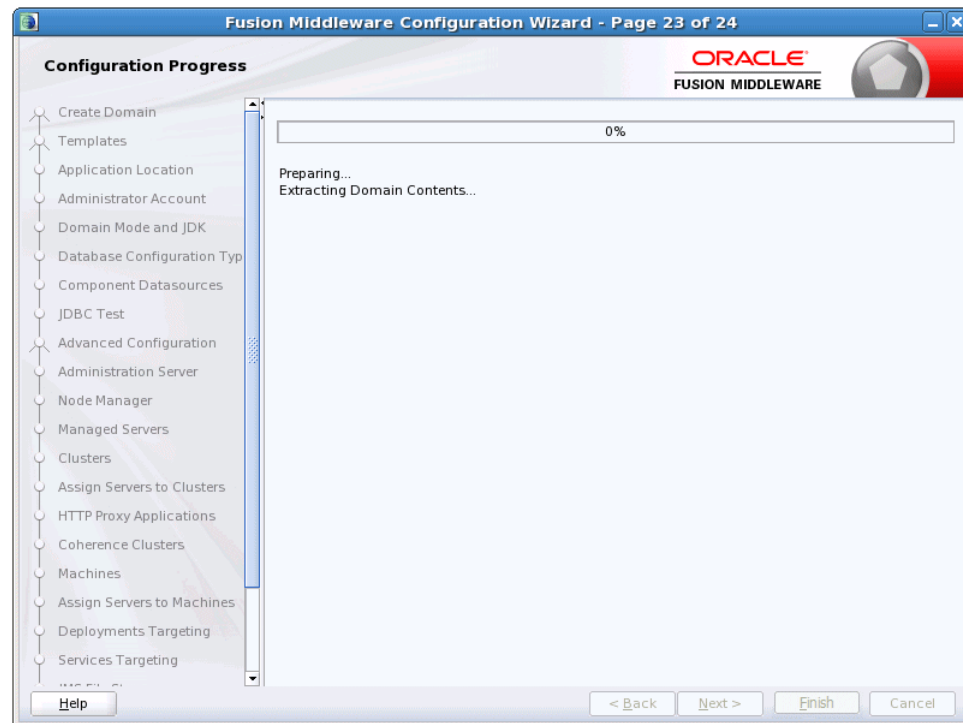
In the **Domain Summary** pane, select an item to display details about that item in the **Details** pane on the right.

You can limit the items that are displayed in the **Domain Summary** pane by selecting a filter option from the **Summary View** drop-down list.

If you need to change the configuration, click **Back** to return to the appropriate screen.

When done, click **Create** to create the domain.

## 5.37 Configuration Progress



This screen shows the progress of the domain creation.

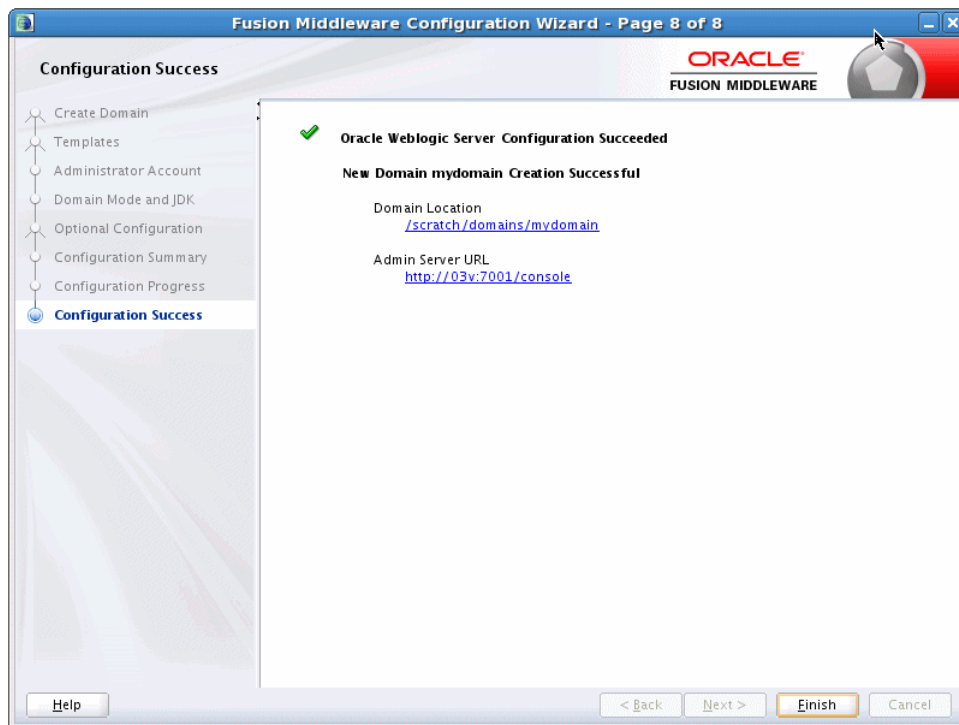
If you are creating a domain using templates that were selected on the [Templates](#) screen, detailed messages are displayed as the domain is being created.

If you are configuring the WebLogic Server samples domains at the end of WebLogic Server installation, the following messages are displayed for each domain:

```
Generating domain domain_name
-----
Successfully generated domain: domain_name
```

When the domain creation process completes, click **Done** to continue.

## 5.38 Configuration Success



This screen differs depending on whether you ran the full Configuration Wizard or the Quick Start Configuration Wizard.

### Single Domain

The message "New Domain *domain\_name* Created" is displayed, and the domain location is provided along with the Administration Server URL to use for the domain.

On Windows systems, if you want to start the Administration Server after closing the Configuration Wizard, select the **Start Admin Server** check box. This check box is not available on UNIX systems.

### Multiple Domains (Quick Start Configuration Wizard Only)

The following configuration details are displayed:

Field	Description
Domain Name	The name of the new domains.
Domain Location	The path for each domain.
Status	The status of each domain creation, Successful or Failed. If Failed, a message is displayed to indicate the failure reason.
Admin URL	The Administration Server URL.

If you used the Quick Start Wizard to create the WebLogic Server samples domains, a **Start Domain** check box is available on Windows to start any of the domains. To start domain, select this check box and then select the domain to start from the drop-down list.