

Oracle® Fusion Middleware

Installing and Configuring Oracle Data Integrator

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Documentation for installers and system administrators that describes how to install and configure Oracle Data Integrator.

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Preface

This document describes how to use the Oracle Data Integrator installation program to install the Oracle Data Integrator software and configure a WebLogic domain.

If you are an existing Oracle Data Integrator user, your path to obtain the most recent version of the software will depend on the version of your existing software. For more information, refer to the [Oracle Fusion Middleware Download, Installation, and Configuration Readme Files](#) for the steps you need to take to update or upgrade your existing software.

[Audience](#)

[Documentation Accessibility](#)

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Audience

This guide is intended for administrators who are responsible for installing and configuring components of Oracle Data Integrator. It is assumed that readers are comfortable running some system administration operations, such as creating users and groups, adding users to groups, and installing operating system patches on the computer where your products will be installed. Users in UNIX systems who are installing need `root` access to run some scripts.

Documentation Accessibility

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Related Documents

Refer to the Oracle Fusion Middleware Library for additional information.

- For Oracle Data Integrator information, see Oracle Data Integrator Documentation.
- For installation information, see Fusion Middleware Installation Documentation.
- For upgrade information, see Fusion Middleware Upgrade Documentation.
- For administration-related information, see Fusion Middleware Administration Documentation.
- For release-related information, see Fusion Middleware Release Notes.

Conventions

The following text conventions are used in this document:

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

About the Oracle Data Integrator Installation

The standard installation for Oracle Data Integrator described in this guide creates the standard topology, which represents a sample starting topology for this product.

This guide explains how to install Oracle Data Integrator (ODI) on your local system using your on-premises hardware. An alternative is to subscribe to the Oracle Cloud Java as a Service (JCS) and then install and configure ODI on JCS. For details on how to install and configure ODI on JCS, see [Provisioning ODI](#).

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

The standard installation topology is a flexible topology that you can use as a starting point in production environments.

[About the Oracle Data Integrator Topology](#)

The Oracle Data Integrator topology is the physical and logical representation of the Oracle Data Integrator architecture and components.

[About Oracle Data Integrator Studio](#)

Oracle Data Integrator Studio is a developer's interface for configuring and managing ODI.

[Using This Document to Extend an Existing Domain](#)

The procedures in this guide describe how to create a new domain. The assumption is that no other Oracle Fusion Middleware products are installed on your system.

1.1 Using the Standard Installation Topology as a Starting Point

The standard installation topology is a flexible topology that you can use as a starting point in production environments.

The information in this guide helps you to create a standard installation topology for Oracle Data Integrator. If appropriate and required, you can later extend the standard installation topology to create a secure and highly available production environment (see [Next Steps After Configuring the Domain](#)).

The standard installation topology represents a sample topology for this product. It is not the only topology this product supports. For more information, see *About the Standard Installation Topology* in *Planning an Installation of Oracle Fusion Middleware*.

[About Oracle Data Integrator Run-Time Agents](#)

At design time, developers generate scenarios from the business rules that they have designed. The code of these scenarios is then retrieved from the repository by a run-time agent. This agent then connects to the data servers and orchestrates the code execution on these servers.

[About the Oracle Data Integrator Standalone Agent Standard Installation Topology](#)

This topology represents a standalone agent configured in a standalone domain, managed by the WebLogic Management Framework. The domain is configured on a single host and requires a supported database where the required Fusion Middleware schemas are installed.

[About the Oracle Data Integrator Standalone Collocated Agent Standard Installation Topology](#)

This installation topology represents a standalone agent configured in a WebLogic domain, managed by an Administration Server and Node Manager. The domain is configured on a single host and requires a supported database where the required Fusion Middleware schemas are installed.

[About the Oracle Data Integrator Java EE Agent Standard Installation Topology](#)

This topology represents a standard WebLogic Server domain that contains an Administration Server and a Managed Server on which the Infrastructure and Java EE agent are deployed.

1.1.1 About Oracle Data Integrator Run-Time Agents

At design time, developers generate scenarios from the business rules that they have designed. The code of these scenarios is then retrieved from the repository by a run-time agent. This agent then connects to the data servers and orchestrates the code execution on these servers.

The types of run-time agents that can be configured in the ODI installation topology are:

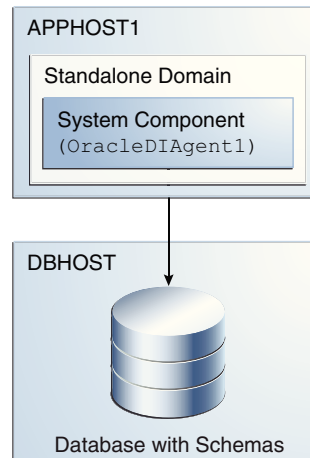
- Standalone agent
- Standalone collocated agent
- Java EE agent

For more information, see Run-Time Agent in *Understanding Oracle Data Integrator*.

1.1.2 About the Oracle Data Integrator Standalone Agent Standard Installation Topology

This topology represents a standalone agent configured in a standalone domain, managed by the WebLogic Management Framework. The domain is configured on a single host and requires a supported database where the required Fusion Middleware schemas are installed.

[Figure 1-1](#) shows the standard installation topology for the Oracle Data Integrator standalone agent.

Figure 1-1 Standard Installation Topology for the Standalone Agent

For configuration instructions, see [Configuring the Domain for a Standalone Agent](#).

[Table 1-1](#) describes all elements in this standard installation topology illustration.

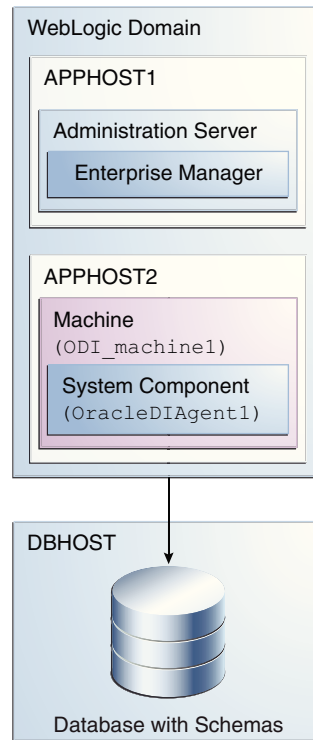
Table 1-1 Description of the Elements in the Standalone Agent Standard Installation Topology

Element	Description and Links to Additional Documentation
APPHOST	Standard term used in Oracle documentation referring to the computer that is hosting the application tier.
DBHOST	Standard term used in Oracle documentation referring to the computer that is hosting the database.
Standalone Domain	A container for system components, such as Oracle HTTP Server or Oracle Data Integrator standalone agents. For more information, see <i>What Is a Standalone Domain?</i> in <i>Understanding Oracle Fusion Middleware</i>.
System Component	A manageable process that is not deployed in a Java application container. A system component corresponds to a standalone agent. For more information, see <i>What Is a System Component?</i> in <i>Understanding Oracle Fusion Middleware</i>.

1.1.3 About the Oracle Data Integrator Standalone Collocated Agent Standard Installation Topology

This installation topology represents a standalone agent configured in a WebLogic domain, managed by an Administration Server and Node Manager. The domain is configured on a single host and requires a supported database where the required Fusion Middleware schemas are installed.

[Figure 1-2](#) shows the standard installation topology for the standalone collocated agent.

Figure 1-2 Standard Installation Topology for the Standalone Collocated Agent

For configuration instructions, see [Configuring the Domain for a Standalone Collocated Agent](#).

Table 1-2 describes all elements in this standard installation topology.

Table 1-2 Description of the Elements in the Standalone Collocated Agent Standard Installation Topology

Element	Description and Links to Additional Documentation
APPHOST	Standard term used in Oracle documentation referring to the computer that is hosting the application tier.
DBHOST	Standard term used in Oracle documentation referring to the computer that is hosting the database.
Administration Server	The central control entity of a domain which maintains the domain's configuration objects and distributes configuration changes to Managed Servers. For more information, see What Is the Administration Server? in <i>Understanding Oracle Fusion Middleware</i> .
Enterprise Manager	Oracle Enterprise Manager Fusion Middleware Control. For more information, see Oracle Enterprise Manager Fusion Middleware Control in <i>Understanding Oracle Fusion Middleware</i> .

Table 1-2 (Cont.) Description of the Elements in the Standalone Collocated Agent Standard Installation Topology

Element	Description and Links to Additional Documentation
Machine	Logical representation of the computer that hosts one or more WebLogic Server instances (servers). Machines are also the logical glue between WebLogic Managed Servers and the Node Manager; in order to start or stop a Managed Server with Node Manager, the Managed Server must be associated with a machine.
System Component	A standalone process that is managed by the WebLogic Management Framework. A system component corresponds to a standalone agent. For more information, see <i>What Is a System Component?</i> in <i>Understanding Oracle Fusion Middleware</i> .

1.1.4 About the Oracle Data Integrator Java EE Agent Standard Installation Topology

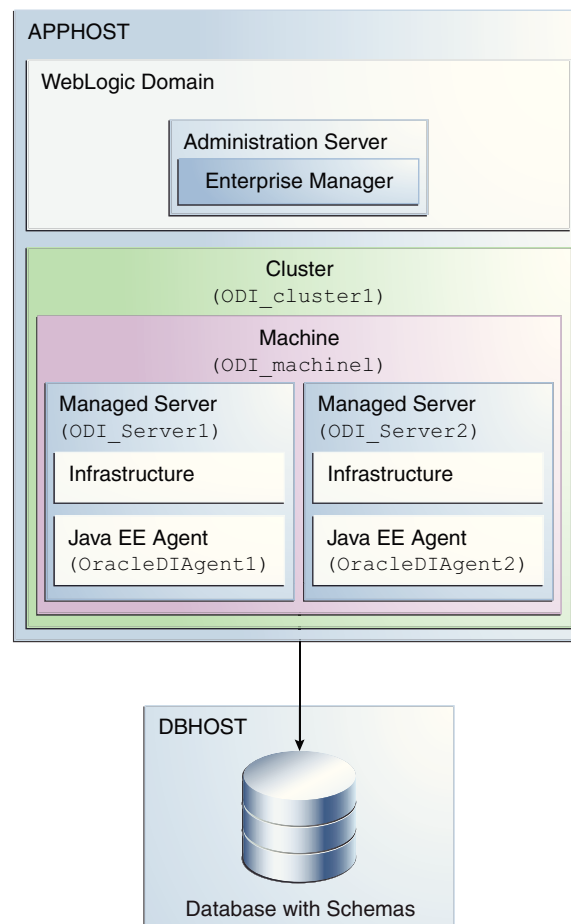
This topology represents a standard WebLogic Server domain that contains an Administration Server and a Managed Server on which the Infrastructure and Java EE agent are deployed.

The Managed Server is targeted to a machine inside a cluster. The domain is configured on a single host and requires a supported database where the required Fusion Middleware schemas are installed. The Java EE agent is installed into an existing Oracle home containing Oracle Fusion Middleware Infrastructure. ODI Console, ODI Studio, and the plugin for Fusion Middleware Control are also installed in the topology.

Note:

The infrastructure can use more than one machine for scalability and high-availability considerations. See [Preparing Your Environment for High Availability](#) for more information.

[Figure 1-3](#) shows the standard installation topology for an Oracle Data Integrator Java EE agent.

Figure 1-3 Standard Installation Topology for an ODI Java EE Agent

For configuration instructions, see [Configuring the Domain for a Java EE Agent](#).

[Table 1-3](#) describes all elements in this standard installation topology illustration.

Table 1-3 Description of the Elements in the Java EE Standard Installation Topology

Element	Description and Links to Additional Documentation
APPHOST	Standard term used in Oracle documentation referring to the computer that is hosting the application tier.
DBHOST	Standard term used in Oracle documentation referring to the computer that is hosting the database.
WebLogic Domain	A logically related group of Java components (in this case, the administration Server, Managed Servers, and other related software components). For more information, see <i>What Is an Oracle WebLogic Server Domain?</i> in <i>Understanding Oracle Fusion Middleware</i>.
Administration Server	The central control entity of a domain which maintains the domain's configuration objects and distributes configuration changes to Managed Servers. For more information, see <i>What Is the Administration Server?</i> in <i>Understanding Oracle Fusion Middleware</i>.

Table 1-3 (Cont.) Description of the Elements in the Java EE Standard Installation Topology

Element	Description and Links to Additional Documentation
Enterprise Manager	Oracle Enterprise Manager Fusion Middleware Control. For more information, see Oracle Enterprise Manager Fusion Middleware Control in <i>Understanding Oracle Fusion Middleware</i> .
Cluster	A collection of multiple WebLogic Server instances running simultaneously and working together. For more information, see Overview of Managed Servers and Managed Server Clusters in <i>Understanding Oracle Fusion Middleware</i> .
Machine	Logical representation of the computer that hosts one or more WebLogic Server instances (servers). Machines are also the logical glue between WebLogic Managed Servers and the Node Manager; in order to start or stop a Managed Server with Node Manager, the Managed Server must be associated with a machine.
Managed Server	Host for your applications, application components, Web services, and their associated resources. For more information, see Overview of Managed Servers and Managed Server Clusters in <i>Understanding Oracle Fusion Middleware</i> .
Infrastructure	Collection of services that include the following: • Metadata repository (MDS). This contains metadata for Oracle Fusion Middleware components, such as the Oracle Application Developer Framework. For more information, see What Is the Metadata Repository? in <i>Understanding Oracle Fusion Middleware</i>. • Oracle Application Developer Framework (Oracle ADF) • Oracle Web Services Manager (OWSM)
Java EE Agent	The Java EE run-time agent.

1.2 About the Oracle Data Integrator Topology

The Oracle Data Integrator topology is the physical and logical representation of the Oracle Data Integrator architecture and components.

Before you can begin developing using Oracle Data Integrator, you must first set up an Oracle Data Integrator topology, which is the physical and logical representation of the Oracle Data Integrator architecture and components. The Oracle Data Integrator topology defines where to find the sources and targets of the data that you are integrating.

Note that this topology is not the same as the standard installation topology, which is the layout of files installed and configured on your computer by the Oracle Universal Installer and the configuration wizard.

For more information, see Setting up a Topology in *Developing Integration Projects with Oracle Data Integrator*.

1.3 About Oracle Data Integrator Studio

Oracle Data Integrator Studio is a developer's interface for configuring and managing ODI.

To learn how to use ODI Studio to configure and manage your ODI topology, see [Configuring Oracle Data Integrator Studio](#).

1.4 Using This Document to Extend an Existing Domain

The procedures in this guide describe how to create a new domain. The assumption is that no other Oracle Fusion Middleware products are installed on your system.

If you have installed and configured other Oracle Fusion Middleware products on your system (for example, Fusion Middleware Infrastructure, with a domain that is up and running) and wish to extend the same domain to include Oracle Data Integrator, read [Installing Multiple Products in the Same Domain](#) for detailed information.

Preparing to Install and Configure Oracle Data Integrator

To prepare for your Oracle Data Integrator installation, verify that your system meets the basic requirements, then obtain the correct installation software.

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

This roadmap provides all the steps required to install and configure a standard Oracle Data Integrator installation topology.

[Roadmap for Verifying Your System Environment](#)

Before you begin the installation and configuration process, you must verify your system environment.

[About Product Distributions](#)

You create the initial Oracle Data Integrator domain using the Oracle Fusion Middleware Infrastructure distribution, which contains both Oracle WebLogic Server software and Oracle Java Required Files (JRF) software.

[Obtaining the Product Distribution](#)

You can obtain the Oracle Fusion Middleware Infrastructure and Oracle Data Integrator distribution on the Oracle Technology Network (OTN).

2.1 Roadmap for Installing and Configuring a Standard Installation Topology

This roadmap provides all the steps required to install and configure a standard Oracle Data Integrator installation topology.

[Table 2-1](#) shows the high-level steps required to install and configure the topology.

Table 2-1 Oracle Data Integrator Installation Roadmap

Task	Description	Documentation
Verify your system environment	Before beginning the installation, verify that the minimum system and network requirements are met.	See Roadmap for Verifying Your System Environment .
Check for any mandatory patches that will be required before or after the installation	Review the Oracle Fusion Middleware Infrastructure release notes to see if there are any mandatory patches required for the software products you are installing.	See Install and Configure in <i>Release Notes for Oracle Fusion Middleware Infrastructure</i> .

Table 2-1 (Cont.) Oracle Data Integrator Installation Roadmap

Task	Description	Documentation
Obtain the appropriate distribution	Obtain the Oracle Data Integrator product distribution for installation. If you are creating a Java EE or standalone collocated agent, you must also obtain and install the Oracle Fusion Middleware Infrastructure distribution prior to installing Oracle Data Integrator.	See Obtaining the Product Distribution .
Determine your installation directories	Verify that the installer can access or create the required installer directories. Also, verify that the directories exist on systems that meet the minimum requirements.	See What Are the Key Oracle Fusion Middleware Directories? in <i>Understanding Oracle Fusion Middleware</i> .
Install prerequisite software	If you are creating a Java EE or standalone collocated agent, install Oracle Fusion Middleware Infrastructure to create the Oracle home directory.	See Installing the Infrastructure Software in <i>Installing and Configuring the Oracle Fusion Middleware Infrastructure</i> . There is no need to configure a domain for Infrastructure; the purpose of this task is to install <code>oracle_common</code> into the Oracle home.
Install the software	Run the Oracle Universal Installer to install Oracle Data Integrator. Installing the software transfers the software to your system and creates the Oracle home directory.	See Installing the Oracle Data Integrator Software .
Create the Master and Work Repository schemas.	Use the Repository Creation Utility (RCU) to create the Master and Work Repository database schemas.	See Creating the Master and Work Repository Schemas .
Create the physical domain	Use ODI Studio to create the physical agent.	See Configuring Oracle Data Integrator Studio to create the physical agent.
Create and configure your domain	Use the configuration wizard to create and configure your domain.	See Configuring the Domain for a Standalone Agent to create the topology for a standalone agent. See Configuring the Domain for a Standalone Collocated Agent to create the topology for a standalone collocated agent. See Configuring the Domain for a Java EE Agent to create the topology for a Java EE agent.

Table 2-1 (Cont.) Oracle Data Integrator Installation Roadmap

Task	Description	Documentation
Administer and prepare your domain for high availability	Discover additional tools and resources to administer your domain. If you have configured a Java EE agent, you can also prepare and configure your domain to be highly available.	See Preparing Your Environment for High Availability .

2.2 Roadmap for Verifying Your System Environment

Before you begin the installation and configuration process, you must verify your system environment.

The following table identifies important tasks and checks to perform to ensure that your environment is properly prepared for installing and configuring Oracle Data Integrator.

Table 2-2 Roadmap for Verifying Your System Environment

Task	Description	Documentation
Verify certification and system requirements.	Verify that your operating system is certified and properly configured for installation and configuration.	See Verifying Certification, System, and Interoperability Requirements .
Identify a proper installation user.	Verify that the installation user has the proper permissions to install and configure the software.	See Selecting an Installation User .
Select the installation and configuration directories on your system.	Verify that you can create the necessary directories for installation and configuration, according to the recommended directory structure. - The Java EE and standalone collocated agent must be installed into an existing Oracle Home directory containing Oracle Fusion Middleware Infrastructure. - The standalone agent must be installed into a new, empty Oracle Home directory.	See About the Directories for Installation and Configuration .
Install a certified JDK.	The installation program for the distribution requires a certified JDK present on your system.	See About JDK Requirements for an Oracle Fusion Middleware Installation .
Install and configure a database for mid-tier schemas.	To configure your WebLogic domain, you must have access to a certified database that is properly configured for schemas required by Oracle Data Integrator.	See About Database Requirements for an Oracle Fusion Middleware Installation .

[Verifying Certification, System, and Interoperability Requirements](#)

Oracle recommends that you use the certification matrix and system requirements documents with each other to verify that your environment meets the requirements for installation.

[Selecting an Installation User](#)

The user who performs installation and configuration on your system requires sufficient permissions and privileges.

[About the Directories for Installation and Configuration](#)

During the installation and domain configuration process, you must plan on providing the locations for these directories: Oracle home, Domain home, and the Application home.

[About JDK Requirements for an Oracle Fusion Middleware Installation](#)

Most Fusion Middleware products are in `.jar` file format. These distributions do *not* include a JDK. To run a `.jar` distribution installer, you must have a certified JDK already installed on your system.

[About Database Requirements for an Oracle Fusion Middleware Installation](#)

Many Oracle Fusion Middleware products require database schemas prior to configuration. If you do not already have a database where you can install these schemas, you must install and configure a certified database.

2.2.1 Verifying Certification, System, and Interoperability Requirements

Oracle recommends that you use the certification matrix and system requirements documents with each other to verify that your environment meets the requirements for installation.

1. Verifying your environment meets certification requirements

Make sure that you are installing your product on a supported hardware and software configuration. For more information, see the certification document for your release on the *Oracle Fusion Middleware Supported System Configurations* page.

Oracle has tested and verified the performance of your product on all certified systems and environments. Whenever new certifications occur, they are added to the proper certification document right away. New certifications can be released at any time. Therefore, the certification documents are kept outside the documentation libraries and are available on Oracle Technology Network.

2. Using the system requirements document to verify certification

Oracle recommends that you use the *Oracle Fusion Middleware System Requirements and Specifications* document to verify that the certification requirements are met. For example, if the certification document indicates that your product is certified for installation on 64-Bit Oracle Linux 6.5, use this document to verify that your system meets the required minimum specifications. These include disk space, available memory, specific platform packages and patches, and other operating system-specific items. System requirements can change in the future. Therefore, the system requirement documents are kept outside of the documentation libraries and are available on Oracle Technology Network.

3. Verifying interoperability among multiple products

See Oracle Fusion Middleware 12c Interoperability and Compatibility in *Understanding Interoperability and Compatibility* to learn how to install and run

multiple Fusion Middleware products from the same release or mixed releases with each other.

2.2.2 Selecting an Installation User

The user who performs installation and configuration on your system requires sufficient permissions and privileges.

About User Permissions

The user who installs a Fusion Middleware product owns the files and has certain permissions on the files.

About Non-Default User Permissions on UNIX Operating Systems

Changing the default permissions setting reduces the security of the installation and possibly your system. Oracle does not recommend changing default permission settings.

Verifying the Installation User has Administrator Privileges on Windows Operating Systems

To update the Windows Registry, you must have Administrator privileges.

2.2.2.1 About User Permissions

The user who installs a Fusion Middleware product owns the files and has certain permissions on the files.

- Read and write permissions on all non-executable files (for example, `.jar`, `.properties`, or `.xml`). All other users in the same group as the file owner have read permissions only.
- Read, write, and execute permissions on all executable files (for example, `.exe`, `.sh`, or `.cmd`). All other users in the same group as the file owner have read and execute permissions only.

This means that someone other than the person who installs the software can use the installed binaries in the Oracle home to configure a domain or set of Fusion Middleware products.

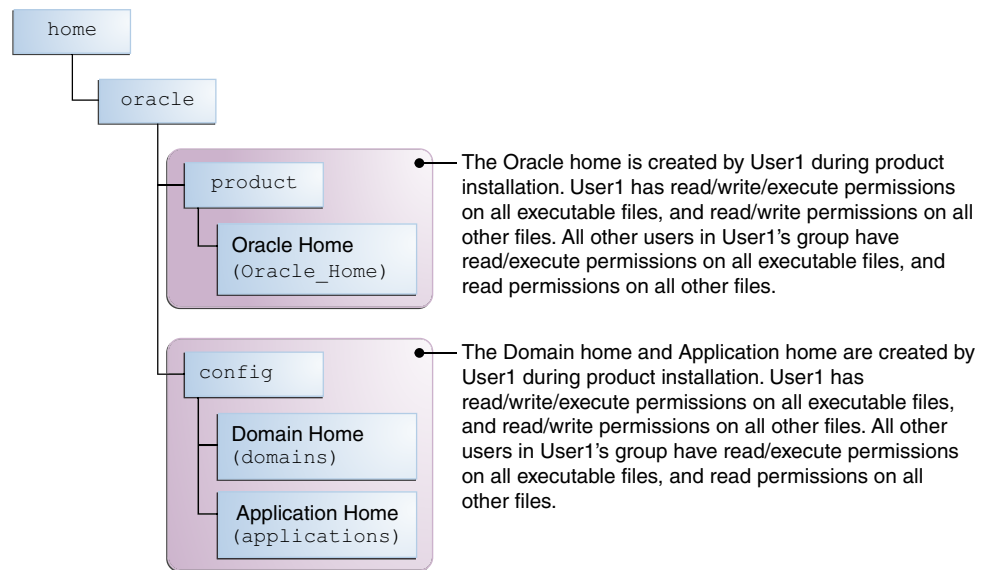
During configuration, the files generated by the configuration process are owned by the user who ran the Configuration Wizard, with the same permissions as described above for the installation user. However, security-sensitive files are not created with group permissions. Only the user that created the domain has read and write permissions and can administer the domain.

Consider the following examples:

- **Example 1: A Single User Installs the Software and Configures the Domain**

This example shows the permissions if the same user installs the software and configures the domain.

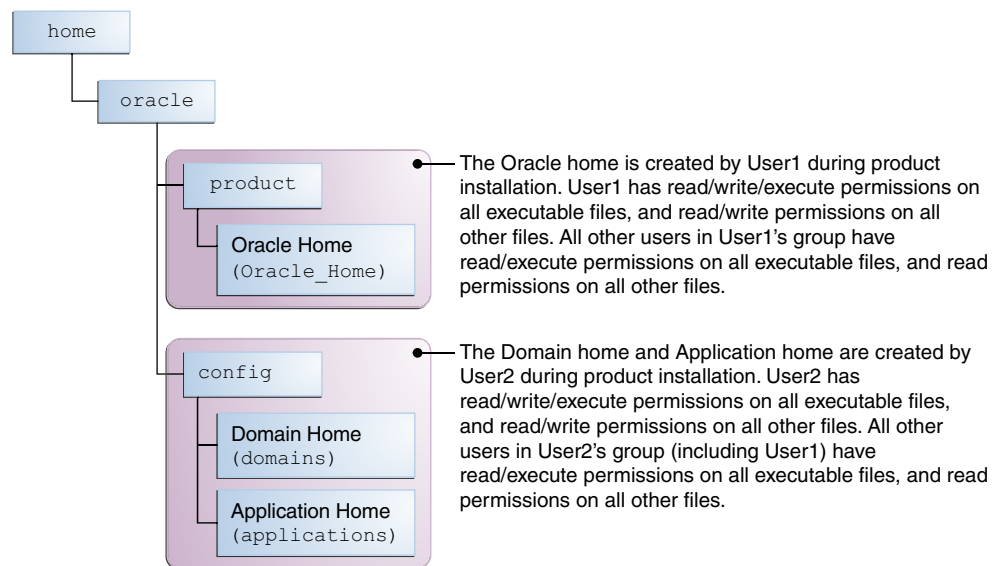
To ensure the proper permissions and privileges for all files, Oracle recommends that the same owner perform both tasks: install the Oracle Fusion Middleware product and configure the WebLogic Server domain using the Configuration Wizard.



If the user who creates the domain is different than the user who installed the software, then both users must have the same privileges, as shown in the next example.

- **Example 2: The Oracle Home and Domain are Created by Different Users**

This example shows the permissions where one user creates the Oracle home and another user configures the domain.



Note: Certain domain files do not have group permissions. For example, `cwallet.sso`.

Consider the following items before running the installer:

- On UNIX operating systems, Oracle recommends that you set `umask` to `027` on your system before you install the software. This ensures that file permissions are set properly during installation. Use the following command:

```
umask 027
```

You must enter this command in the same terminal window from which you plan to run the product installer.

- On UNIX operating systems, do not run the installation program as the `root` user. If you run the installer as a root user, the startup validation may fail and you cannot continue the installation.
- When you manage a product installation (for example, applying patches or starting managed Servers), use the same user ID that you used to install the product.
- On Windows operating systems, you must have Administrative privileges to install the product. See [Verifying the Installation User has Administrator Privileges on Windows Operating Systems](#) for more information.

2.2.2.2 About Non-Default User Permissions on UNIX Operating Systems

Changing the default permissions setting reduces the security of the installation and possibly your system. Oracle does not recommend changing default permission settings.

If other users require access to particular files or executable, consider using the UNIX `sudo` command (or other similar command) in lieu of changing file permissions.

Refer to your UNIX operating system Administrator's Guide or contact your operating system vendor if you need further assistance.

2.2.2.3 Verifying the Installation User has Administrator Privileges on Windows Operating Systems

To update the Windows Registry, you must have Administrator privileges.

By default, members with the Administrator privilege sign in to the system with regular privileges, but can request elevated permissions to perform administrative tasks.

To perform a task with elevated privileges:

1. Find the Command Prompt item, either from the Start menu or the Windows icon in the lower-left hand corner.
2. Right-click Command Prompt and select **Run as administrator**.

This opens a new command prompt window, and all actions performed in this window will be done with administrator privileges.

Note: If you have User Access Control enabled on your system, you may see an additional window asking you to confirm this action. Confirm and continue with this procedure.

3. Perform the desired task.

For example, to start the product installer:

For a jar file, enter:

```
java -jar distribution_name.jar
```

For an executable (.exe, .bin, or .sh file), enter:

`distribution_name.exe`

2.2.3 About the Directories for Installation and Configuration

During the installation and domain configuration process, you must plan on providing the locations for these directories: Oracle home, Domain home, and the Application home.

[About the Recommended Directory Structure](#)

Oracle recommends specific locations for the Oracle Home, Domain Home, and Application Home.

[About the Oracle Home Directory](#)

When you install any Oracle Fusion Middleware product, you must use an Oracle home directory.

[About the Domain Home Directory](#)

The Domain home is the directory where domains that you configure are created.

[About the Application Home Directory](#)

The Application home is the directory where applications for domains you configure are created.

[Installing Multiple Products in the Same Domain](#)

There are two methods for installing and configuring multiple products in one domain, also known as *extending* a domain.

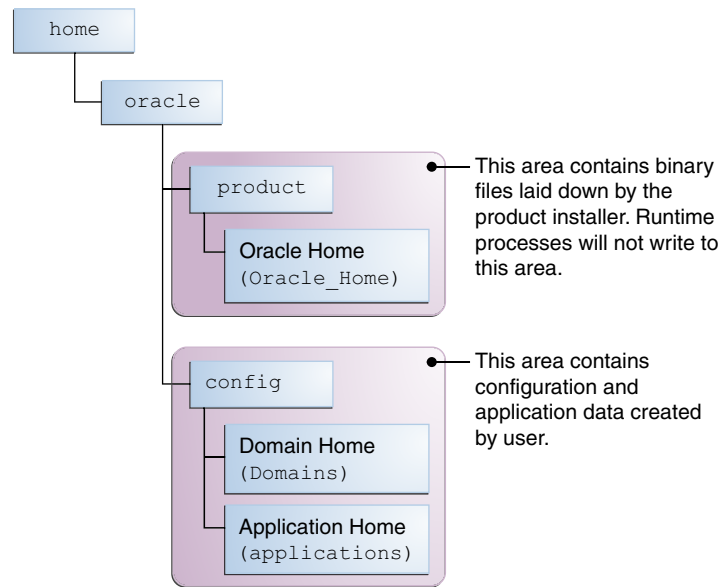
[Preparing for Shared Storage](#)

Oracle Fusion Middleware enables you to configure multiple Oracle WebLogic Server domains from a single Oracle home. This allows you to install the Oracle home in a single location on a shared volume and reuse the Oracle home for multiple host installations.

2.2.3.1 About the Recommended Directory Structure

Oracle recommends specific locations for the Oracle Home, Domain Home, and Application Home.

Oracle recommends a directory structure similar to the one shown in [Figure 2-1](#).

Figure 2-1 Recommended Oracle Fusion Middleware Directory Structure

A base location (Oracle base) should be established on your system (for example, /home/oracle) and from there, two separate branches should be created. The **product** directory should contain the product binary files and all of the Oracle home directories. The **config** directory should contain your domain and application data.

Oracle recommends that you do not keep your configuration data anywhere underneath the Oracle home; if you upgrade your product to another major release, you will be required to create a new Oracle home for binaries. You must also make sure that your configuration data exist in a location to which the binaries in the Oracle home have access.

The /home/oracle/product (for the Oracle home) and /home/oracle/config (for the application and configuration data) directories are used in examples throughout the documentation; be sure to replace these directories with the actual directories on your system.

2.2.3.2 About the Oracle Home Directory

When you install any Oracle Fusion Middleware product, you must use an Oracle home directory.

This directory is a repository for common files that are used by multiple Fusion Middleware products installed on the same machine. These files are essential to ensuring that Fusion Middleware operates correctly on your system. They facilitate checking of cross-product dependencies during installation. For this reason, you can consider the Oracle home directory a *central support directory* for all Oracle Fusion Middleware products installed on your system.

Fusion Middleware documentation refers to the Oracle home directory as **ORACLE_HOME**.

Oracle Home Considerations

Keep the following in mind when creating the Oracle home directory and installing Fusion Middleware products:

- Do not include spaces in the name of your Oracle home directory; the installer gives you an error message if your Oracle home directory path contains spaces.

- You can install only one instance of each Oracle Fusion Middleware product in a single Oracle home directory. If you need to maintain separate versions of a product on the same machine, each version must be in its own Oracle home directory.

Although you can have several different products in a single Oracle home, only one version of each product can be in the Oracle home.

Multiple Home Directories

Although in most situations, a single Oracle home directory is sufficient, it is possible to create more than one Oracle home directory. For example, you need to maintain multiple Oracle home directories in the following situations:

- You prefer to maintain separate development and production environments, with a separate product stack for each. With two directories, you can update your development environment without modifying the production environment until you are ready to do so.
- You want to maintain two different versions of a Fusion Middleware product at the same time. For example, you may want to install a new version of a product while keeping your existing version intact. In this case, you must install each product version in its own Oracle home directory.
- You need to install multiple products that are not compatible with each other. See Oracle Fusion Middleware 12c (12.2.1.2.6) Interoperability and Compatibility in *Understanding Interoperability and Compatibility* for more information.

Note: If you create more than one Oracle home directory, you must provide non-overlapping port ranges during the configuration phase for each product.

2.2.3.3 About the Domain Home Directory

The Domain home is the directory where domains that you configure are created.

The default Domain home location is `ORACLE_HOME/user_projects/domains/domain_name`. However, Oracle strongly recommends that you do not use this default location. Put your Domain home *outside* of the Oracle home directory, for example, in `/home/oracle/config/domains`. The `config` directory should contain domain and application data. Oracle recommends a separate domain directory so that new installs, patches, and other operations update the `ORACLE_HOME` only, *not* the domain configuration.

See [About the Recommended Directory Structure](#) for more about the recommended directory structure and locating your Domain home.

Fusion Middleware documentation refers to the Domain home directory as `DOMAIN_HOME` and includes all folders up to and including the domain name. For example, if you name your domain `exampledomain` and locate your domain data in the `/home/oracle/config/domains` directory, the documentation would use `DOMAIN_HOME` to refer to `/home/oracle/config/domains/exampledomain`.

2.2.3.4 About the Application Home Directory

The Application home is the directory where applications for domains you configure are created.

The default Application home location is `ORACLE_HOME/user_projects/applications/domain_name`. However, Oracle strongly recommends locating

your Application home *outside* of the Oracle home directory; if you upgrade your product to another major release, you must create a new Oracle home for binaries.

See [About the Recommended Directory Structure](#) for more about the recommended directory structure and locating your Application home.

Fusion Middleware documentation refers to the Application home directory as *APPLICATION_HOME* and includes all folders up to and including the domain name. For example, if you name your domain *exampledomain* and you locate your application data in the */home/oracle/config/applications* directory, the documentation uses *APPLICATION_HOME* to refer to */home/oracle/config/applications/exampledomain*.

2.2.3.5 Installing Multiple Products in the Same Domain

There are two methods for installing and configuring multiple products in one domain, also known as *extending* a domain.

- **Method 1.**

Install and configure Product A, including creating the schemas and starting all servers in the domain to verify a successful domain configuration.

This is the method used in all installation guides in the Fusion Middleware library. You can repeat this process for as many products as necessary. It allows you to validate one product at a time and add more products incrementally.

To install Product B in the same domain as Product A:

1. Stop all servers to prevent any updates to the domain while you are adding the new product.

For more information, see *Starting and Stopping Oracle Fusion Middleware in Administering Oracle Fusion Middleware*.

2. Follow instructions in the installation guide for Product B, including creating the necessary schemas.

3. Run the Configuration Wizard to configure the domain.

During configuration, the Configuration Wizard automatically detects the components that have been installed and offers you the option to extend the existing Product A domain to include Product B.

- **Method 2.**

Install all of the required products, then create the schemas for all of the products. After creating the schemas, configure the domain using all of the necessary product templates, then start all the servers.

This method of creating a multi-product domain may be slightly faster than Method 1; however, the installation guides in the Fusion Middleware library do not provide specific instructions for this method of domain creation.

See Also:

- Updating WebLogic Domains in *Creating WebLogic Domains Using the Configuration Wizard*.
 - For important information regarding the ability of Oracle Fusion Middleware products to function with previous versions of other Oracle Fusion Middleware, Oracle, or third-party products. Oracle Fusion Middleware 12c (12.2.1.2.6) Interoperability and Compatibility in *Understanding Interoperability and Compatibility*
-

2.2.3.6 Preparing for Shared Storage

Oracle Fusion Middleware enables you to configure multiple Oracle WebLogic Server domains from a single Oracle home. This allows you to install the Oracle home in a single location on a shared volume and reuse the Oracle home for multiple host installations.

If you plan to use shared storage in your environment, see *Using Shared Storage in High Availability Guide* for more information.

2.2.4 About JDK Requirements for an Oracle Fusion Middleware Installation

Most Fusion Middleware products are in `.jar` file format. These distributions do *not* include a JDK. To run a `.jar` distribution installer, you must have a certified JDK already installed on your system.

Make sure that the JDK is installed *outside* of the Oracle home. If you install the JDK under the Oracle home, you will encounter problems when you try to perform tasks in the future. Oracle Universal Installer validates that the Oracle home directory is empty; the install will not progress until you specify an empty directory. Oracle recommends that you locate your JDK installation in the `/home/oracle/products/jdk` directory.

Some products (such as Oracle HTTP Server and Oracle JDeveloper) are available as **platform-specific distributions**. Platform-specific distributions have a `.bin` (for UNIX operating systems) or `.exe` (for Windows operating systems) installer; in these cases, a platform-specific JDK is in the distribution and you do not need to install a JDK separately. However, you may need to upgrade this JDK to a more recent version, depending on the JDK versions that are certified.

Always verify the required JDK version by reviewing the certification information on the *Oracle Fusion Middleware Supported System Configurations* page. For 12c (12.2.1.2.6), the certified JDK is 1.8.0_101 and later.

To download the required JDK, navigate to the following URL and download the Java SE JDK:

<http://www.oracle.com/technetwork/java/javase/downloads/index.html>

2.2.5 About Database Requirements for an Oracle Fusion Middleware Installation

Many Oracle Fusion Middleware products require database schemas prior to configuration. If you do not already have a database where you can install these schemas, you must install and configure a certified database.

To find a certified database for your operating system, see the certification document for your release on the *Oracle Fusion Middleware Supported System Configurations* page on the Oracle Technology Network (OTN).

To make sure your database is properly configured for schema creation, see "Repository Creation Utility Requirements" in the *Oracle Fusion Middleware System Requirements and Specifications* document.

After your database is properly configured, you use the Repository Creation Utility (RCU) to create product schemas in your database. This tool is available in the Oracle home for your Oracle Fusion Middleware product. For more information, see About the Repository Creation Utility in *Creating Schemas with the Repository Creation Utility*.

2.3 About Product Distributions

You create the initial Oracle Data Integrator domain using the Oracle Fusion Middleware Infrastructure distribution, which contains both Oracle WebLogic Server software and Oracle Java Required Files (JRF) software.

Oracle JRF software consists of:

- Oracle Web Services Manager
- Oracle Application Development Framework (Oracle ADF)
- Oracle Enterprise Manager Fusion Middleware Control
- Repository Creation Utility (RCU)
- Other libraries and technologies required to support Oracle Fusion Middleware products

Installing Oracle Fusion Middleware Infrastructure is a prerequisite to installing Oracle Data Integrator.

2.4 Obtaining the Product Distribution

You can obtain the Oracle Fusion Middleware Infrastructure and Oracle Data Integrator distribution on the Oracle Technology Network (OTN).

To prepare to install Oracle Fusion Middleware Infrastructure and Oracle Data Integrator:

1. Enter `java -version` on the command line to verify that a certified JDK is installed on your system. For 12c (12.2.1.2.6), the certified JDK is 1.8.0_101 and later.

For more information, see [About JDK Requirements for an Oracle Fusion Middleware Installation](#).

2. Locate and download the Oracle Fusion Middleware Infrastructure and Oracle Data Integrator software.

See Obtaining Product Distributions in *Planning an Installation of Oracle Fusion Middleware*.

Installing the Oracle Data Integrator Software

Follow the steps in this section to install the Oracle Data Integrator software.

Before beginning the installation, ensure that you have verified the prerequisites and completed all steps covered in [Preparing to Install and Configure Oracle Data Integrator](#).

Starting the Installation Program

Before running the installation program, you must verify the JDK and prerequisite software is installed.

Navigating the Installation Screens

The installer shows a series of screens where you verify or enter information.

Verifying the Installation

After you complete the installation, verify it was successful by completing a series of tasks.

Installing Oracle Data Integrator in Silent Mode

You can install Oracle Data Integrator in silent mode by using the silent flag.

3.1 Starting the Installation Program

Before running the installation program, you must verify the JDK and prerequisite software is installed.

To start the installation program:

1. Sign in to the host system.
2. If you have not already done so, verify that a certified JDK is installed on your system: enter `java -version` on the command line. For 12c (12.2.1.2.6), the certified JDK is 1.8.0_101 and later.

For more information, see [About JDK Requirements for an Oracle Fusion Middleware Installation](#).

3. Verify that you have installed all prerequisite software, such as Oracle Fusion Middleware Infrastructure.
4. Go to the directory where you downloaded the installation program.
5. Unzip the installer `fmw_12.2.1.2.6_odi_Disk1_1of2.zip` and `fmw_12.2.1.2.6_odi_Disk1_2of2.zip` files.

6. Start the installation program by running the `java` executable from the JDK directory. For example:
 - (UNIX) `/home/Oracle/Java/jdk1.8.0_101/bin/java -jar fmw_12.2.1.2.6_odi_generic.jar`
 - (Windows) `C:\home\Oracle\Java\jdk1.8.0_101\bin\java -jar fmw_12.2.1.2.6_odi_generic.jar`

Note:

You can also start the installer in silent mode using a saved response file instead of launching the installer screens. For more about silent or command line installation, see *Using the Oracle Universal Installer in Silent Mode in Installing Software with the Oracle Universal Installer*.

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

3.2 Navigating the Installation Screens

The installer shows a series of screens where you verify or enter information.

The following table lists the order in which installer screens appear. If you need additional help with an installation screen, click **Help**.

Table 3-1 Oracle Data Integrator Install Screens

Screen	Description
Installation Inventory Setup	On UNIX operating systems, this screen opens if this is the first time you are installing any Oracle product on this host. Specify the location where you want to create your central inventory. Make sure that the operating system group name selected on this screen has write permissions to the central inventory location. For more about the central inventory, see <i>About the Oracle Central Inventory in Installing Software with the Oracle Universal Installer</i>. This screen does not appear on Windows operating systems.
Welcome	On this screen, review the information to make sure that you have met all the prerequisites, then click Next.
Auto Updates	On this screen, select to skip automatic updates, select patches, or search for the latest software updates, including important security updates, through your My Oracle Support account.
Installation Location	Use this screen to specify your Oracle home directory location. • The Java EE and standalone collocated agent must be installed into an existing Oracle Home directory containing Oracle Fusion Middleware Infrastructure. • The standalone agent must be installed into a new, empty Oracle Home directory. You can click View to verify and ensure that you are installing Oracle Data Integrator in the correct Oracle home.

Table 3-1 (Cont.) Oracle Data Integrator Install Screens

Screen	Description
Installation Type	To create the topology for Java EE or standalone collocated agents, select Enterprise Installation into an existing Oracle Home directory. To create the topology for standalone agents, select Standalone Installation . ODI Studio is available in all install types. See Configuring Oracle Data Integrator Studio for details.
Prerequisite Checks	This screen verifies that your system meets the minimum necessary requirements. To view the list of tasks that gets verified, select View Successful Tasks. To view log details, select View Log. If any prerequisite check fails, then an error message appears at the bottom of the screen. Fix the error and click Rerun to try again. To ignore the error or the warning message and continue with the installation, click Skip (not recommended).
Installation Summary	Use this screen to verify installation options you selected. If you want to save these options to a response file, click Save Response File and enter the response file location and name. The response file collects and stores all the information that you have entered, and enables you to perform a silent installation (from the command line) at a later time. Click Install to begin the installation.
Installation Progress	This screen shows the installation progress. When the progress bar reaches 100% complete, click Finish to dismiss the installer, or click Next to see a summary.
Installation Complete	This screen displays the Installation Location and the Feature Sets that are installed. Review this information and click Finish to close the installer.

3.3 Verifying the Installation

After you complete the installation, verify it was successful by completing a series of tasks.

[Reviewing the Installation Log Files](#)

Review the contents of the installation log files to make sure that the installer did not encounter any problems.

[Checking the Directory Structure](#)

The contents of your installation vary based on the options you selected during the installation.

[Viewing the Contents of the Oracle Home](#)

You can view the contents of the Oracle home using the `viewInventory` script.

3.3.1 Reviewing the Installation Log Files

Review the contents of the installation log files to make sure that the installer did not encounter any problems.

By default, the installer writes logs files to the *Oracle_Inventory_Location/logs* (on UNIX operating systems) or *Oracle_Inventory_Location\logs* (on Windows operating systems) directory.

For a description of the log files and where to find them, see *Installation Log Files* in *Installing Software with the Oracle Universal Installer*.

3.3.2 Checking the Directory Structure

The contents of your installation vary based on the options you selected during the installation.

For more information about the directory structure after installation, see *What Are the Key Oracle Fusion Middleware Directories?* in *Understanding Oracle Fusion Middleware*.

3.3.3 Viewing the Contents of the Oracle Home

You can view the contents of the Oracle home using the `viewInventory` script.

For more information, see *Viewing the Contents of an Oracle Home* in *Installing Software with the Oracle Universal Installer*.

3.4 Installing Oracle Data Integrator in Silent Mode

You can install Oracle Data Integrator in silent mode by using the silent flag.

To install Oracle Data Integrator in silent mode, use the `-silent` flag on the command line when you start the installer.

For more information about silent or command line installation, see *Using the Oracle Universal Installer in Silent Mode*.

Example Response Files

The following are response file examples when installing Oracle Data Integrator in Silent mode:

For an Enterprise installation:

```
[ENGINE]
```

```
#DO NOT CHANGE THIS.  
Response File Version=1.0.0.0.0
```

```
[GENERIC]
```

```
#The oracle home location. This can be an existing Oracle Home or a new Oracle Home  
ORACLE_HOME=/scratch/aganeriw/odi1213enterprise
```

```
#Set this variable value to the Installation Type selected. e.g. Standalone  
Installation, Enterprise Installation.  
INSTALL_TYPE=Enterprise Installation
```

```
#Type String (URL format) Indicates the OCM Repeater URL which should be of the  
format [scheme[Http/Https]]://[repeater host]:[repeater port]  
COLLECTOR_SUPPORTHUB_URL=
```

For a Standalone Installation:

```
[ENGINE]
```

```
#DO NOT CHANGE THIS.  
Response File Version=1.0.0.0.0
```

[GENERIC]

#The oracle home location. This can be an existing Oracle Home or a new Oracle Home
ORACLE_HOME=/scratch/aganeriw/odi1213standalone

#Set this variable value to the Installation Type selected. e.g. Standalone
Installation, Enterprise Installation.
INSTALL_TYPE=Standalone Installation

#Provide the My Oracle Support Username. If you wish to ignore Oracle Configuration
Manager configuration provide empty string for user name.
MYORACLESUPPORT_USERNAME=

#Provide the My Oracle Support Password
MYORACLESUPPORT_PASSWORD=<SECURE VALUE>

#Set this to true if you wish to decline the security updates. Setting this to true
and providing empty string for My Oracle Support username will ignore the Oracle
Configuration Manager configuration
DECLINE_SECURITY_UPDATES=true

#Set this to true if My Oracle Support Password is specified
SECURITY_UPDATES_VIA_MYORACLESUPPORT=false

#Provide the Proxy Host
PROXY_HOST=

#Provide the Proxy Port
PROXY_PORT=

#Provide the Proxy Username
PROXY_USER=

#Provide the Proxy Password
PROXY_PWD=<SECURE VALUE>

#Type String (URL format) Indicates the OCM Repeater URL which should be of the
format [scheme[Http/Https]]://[repeater host]:[repeater port]
COLLECTOR_SUPPORTHUB_URL=

Creating the Master and Work Repository Schemas

Before you can configure an Oracle Data Integrator domain, you must create the Master and Work Repository (ODI_REPO) schemas on a certified database for use with this release of Oracle Fusion Middleware.

[Installing and Configuring a Certified Database](#)

Before creating the database schemas, you must install and configure a certified database, and verify that the database is up and running.

[Starting the Repository Creation Utility](#)

Start the Repository Creation Utility (RCU) after verifying that a certified JDK is installed on your system.

[Navigating the Repository Creation Utility Screens to Create the Schemas](#)

Enter required information in the RCU screens to create the database schemas.

4.1 Installing and Configuring a Certified Database

Before creating the database schemas, you must install and configure a certified database, and verify that the database is up and running.

For more information, see [About Database Requirements for an Oracle Fusion Middleware Installation](#).

4.2 Starting the Repository Creation Utility

Start the Repository Creation Utility (RCU) after verifying that a certified JDK is installed on your system.

To start the RCU:

1. Verify that a certified JDK already exists on your system by running `java -version` from the command line. For 12c (12.2.1.2.6), the certified JDK is 1.8.0_101 and later.

For more information, see [About JDK Requirements for an Oracle Fusion Middleware Installation](#).

2. Ensure that the JAVA_HOME environment variable is set to the location of the certified JDK. For example:
 - (UNIX) `setenv JAVA_HOME/home/Oracle/Java/jdk1.8.0_101`
 - (Windows) `set JAVA_HOME=C:\home\Oracle\Java\jdk1.8.0_101`
3. Go to the `/oracle_common/bin` directory:

- (UNIX) `ORACLE_HOME/oracle_common/bin`
 - (Windows) `ORACLE_HOME\oracle_common\bin`
4. Enter the following command:
- (UNIX) `./rcu`
 - (Windows) `rcu.bat`

4.3 Navigating the Repository Creation Utility Screens to Create the Schemas

Enter required information in the RCU screens to create the database schemas.

[Introducing the RCU](#)

The Welcome screen is the first screen that appears when you start the RCU.

[Selecting a Method of Schema Creation](#)

Use the Create Repository screen to select a method to create and load component schemas into the database.

[Providing Database Connection Details](#)

On the Database Connection Details screen, provide the database connection details for the RCU to connect to your database.

[Specifying a Custom Prefix and Selecting Schemas](#)

On the Select Components screen, specify a custom prefix and select the product database schema.

[Specifying Schema Passwords](#)

On the Schema Passwords screen, specify how you want to set the schema passwords on your database, then enter and confirm your passwords.

[Specifying Custom Variables](#)

On the Custom Variables screen, specify the custom variables for the Master and Work Repository.

[Completing Schema Creation](#)

Navigate through the remaining RCU screens to complete schema creation.

4.3.1 Introducing the RCU

The Welcome screen is the first screen that appears when you start the RCU.

Click **Next**.

4.3.2 Selecting a Method of Schema Creation

Use the Create Repository screen to select a method to create and load component schemas into the database.

On the Create Repository screen:

- If you have the necessary permission and privileges to perform DBA activities on your database, select **System Load and Product Load**. This procedure assumes that you have SYSDBA privileges.
- If you do *not* have the necessary permission or privileges to perform DBA activities in the database, you must select **Prepare Scripts for System Load** on this screen. This option generates a SQL script that you can give to your database administrator. See About System Load and Product Load in *Creating Schemas with the Repository Creation Utility*.
- If the DBA has already run the SQL script for System Load, select **Perform Product Load**.

4.3.3 Providing Database Connection Details

On the Database Connection Details screen, provide the database connection details for the RCU to connect to your database.

Note:

If you are unsure of the service name for your database, you can obtain it from the SERVICE_NAMES parameter in the initialization parameter file of the database. If the initialization parameter file does not contain the SERVICE_NAMES parameter, then the service name is the same as the global database name, which is specified in the DB_NAME and DB_DOMAIN parameters.

For example:

```
Database Type: Oracle Database
Name: examplehost.exampledomain.com
Port: 1521
Service Name: orcl.exampledomain.com
User Name: sys
Password: *****
Role: SYSDBA
```

Click **Next** to proceed, then click **OK** in the dialog window that confirms a successful database connections.

4.3.4 Specifying a Custom Prefix and Selecting Schemas

On the Select Components screen, specify a custom prefix and select the product database schema.

Select **Create new prefix**, specify a custom prefix, then select the **Oracle Data Integrator** schema.

Tip:

Make a note of the custom prefix you choose to enter here; you will need this later on during the domain creation process.

The custom prefix logically groups these schemas together for use in this domain only; you must create a unique set of schemas for each domain as schema sharing across domains is not supported.

See Also:

For more information, see the following topics in *Creating Schemas with the Repository Creation Utility*:

- Understanding Custom Prefixes
 - Planning Your Schema Creation
-

If you are running RCU from a Standalone installation, you will see the following:

Specify a unique prefix for all schemas created in this session, so you can easily locate, reference, and manage the schemas later.

☐ Select existing prefix:

☒ Create new prefix:

Alpha numeric only. Cannot start with a number. No special characters.

Component	Schema Owner
☐ Oracle AS Repository Components	
☒ AS Common Schemas	
☒ Common Infrastructure Services	DEV_STB
☐ SOA Suite	
☒ Oracle Data Integrator	
☒ Master and Work Repository	DEV_ODI_REPO
☐ Oracle GoldenGate	
☐ Oracle EDQ	

If you are running RCU from an Enterprise installation, you will see the following:

Specify a unique prefix for all schemas created in this session, so you can easily locate, reference, and manage the schemas later.

☐ Select existing prefix: CLF1

☒ Create new prefix: DEV

Alpha numeric only. Cannot start with a number. No special characters.

Component	Schema Owner
☐ Oracle AS Repository Components	
☒ AS Common Schemas	
☐ User Messaging Service	UMS
☐ Metadata Services	MDS
☐ WebLogic Services	WLS
☒ Common Infrastructure Services	DEV_STB
☒ Oracle Platform Security Services	DEV_OPSS
☒ Audit Services	DEV_IAU
☒ Audit Services Append	DEV_IAU_APPEND
☒ Audit Services Viewer	DEV_IAU_VIEWER
☒ Oracle Data Integrator	
☒ Master and Work Repository	DEV_ODI_REPO

Note:

If you have already created the ODI repository using ODI Studio, uncheck the ODI entry here and create only the dependent schema. In the Configuration Wizard, after retrieving the dependent schema connectivity from STB schema, manually fill in the ODI repository details.

Click **Next** to proceed, then click **OK** to confirm that prerequisite checking for schema creation was successful.

4.3.5 Specifying Schema Passwords

On the Schema Passwords screen, specify how you want to set the schema passwords on your database, then enter and confirm your passwords.

Tip:

You must make a note of the passwords you set on this screen; you will need them later on during the domain creation process.

4.3.6 Specifying Custom Variables

On the Custom Variables screen, specify the custom variables for the Master and Work Repository.

Enter value for the following custom variables.

Component	Custom Variable	Value
Master and Work Repository	Supervisor Password	*****
	Confirm Supervisor Password	*****
	Work Repository Type: (D) Development (Default) or (E)...	D
	Work Repository Name (WORKREP)	WORKREP
	Work Repository Password	*****
	Confirm Work Repository Password	*****
	Encryption Algorithm: AES-128 (Default) or AES-256	AES-128

Tip:

For more information about the options on this screen, see Custom Variables in *Creating Schemas with the Repository Creation Utility*.

4.3.7 Completing Schema Creation

Navigate through the remaining RCU screens to complete schema creation.

On the Map Tablespaces screen, the Encrypt Tablespace check box appears *only* if you enabled TDE (Transparent Data Encryption) in the database (Oracle or Oracle EBR) when you start the RCU. Select the **Encrypt Tablespace** check box if you want to encrypt all new tablespaces that the RCU will create.

When you reach the Completion Summary screen, click **Close** to dismiss the RCU.

Configuring Oracle Data Integrator Studio

Oracle Data Integrator Studio (ODI Studio) is the interface you use to manage and configure Oracle Data Integrator (ODI).

About Oracle Data Integrator Studio

Oracle Data Integrator Studio (ODI Studio) is the developer's interface that you use to configure and manage Oracle Data Integrator (ODI).

Creating the Database Schemas

Before you can configure an Oracle Data Integrator domain, you must create the Master and Work Repository (ODI_REPO) schemas on a certified database for use with this release of Oracle Fusion Middleware.

Setting the Same Time Zone for the Agent and Repository

Ensure that schedules are not affected by out-of-sync time zones by setting the same time zone for your agent and for the repository.

Adding Libraries to ODI Studio

You can add third-party libraries to ODI Studio.

Setting Java Home for ODI Studio

Set the JAVA_HOME environment variable to the location of the certified JDK before you start ODI Studio.

Starting ODI Studio

Start ODI Studio with the `odi` command.

Connecting to the Master Repository

Connect to the master repository before creating an agent.

5.1 About Oracle Data Integrator Studio

Oracle Data Integrator Studio (ODI Studio) is the developer's interface that you use to configure and manage Oracle Data Integrator (ODI).

ODI Studio is installed as part of standalone or enterprise option under the specified ORACLE_HOME directory. ODI Studio provides four graphical Navigators for managing ODI artifacts: Designer, Operator, Topology, and Security. ODI Studio can also directly execute jobs on demand, and can be used for development and initial testing.

5.2 Creating the Database Schemas

Before you can configure an Oracle Data Integrator domain, you must create the Master and Work Repository (ODI_REPO) schemas on a certified database for use with this release of Oracle Fusion Middleware.

Follow the instructions in [Creating the Master and Work Repository Schemas](#) to create the required schemas.

5.3 Setting the Same Time Zone for the Agent and Repository

Ensure that schedules are not affected by out-of-sync time zones by setting the same time zone for your agent and for the repository.

Each database has its own way of identifying the configured time zone. To ensure that scheduling is not affected by out-of-sync time zones, make sure Oracle Data Integrator Studio and the agent are started with the time zones identical to the time zone of the repository.

5.4 Adding Libraries to ODI Studio

You can add third-party libraries to ODI Studio.

All files required by ODI Studio, such as third-party JDBC drivers, Open Tools, and libraries, should be deployed into the `userlib` directory. The location of this directory is:

- On UNIX systems: `$HOME/.odi/oracledi/userlib`
- On Windows systems: `%APPDATA%\odi\oracledi\userlib`
where `%APPDATA%` is `C:\Documents and Settings\Application Data` (in Windows XP), and `C:\Users\myUserName\AppData\Roaming` (on Windows 7 and Windows 8).

The `userlib` directory contains the `additional_path.txt` file, where you can declare additional files or folders outside of the `userlib` directory from which ODI Studio acquires other libraries and drivers, as illustrated in the following example:

```
; Additional paths file
; You can add here paths to additional libraries
; Examples:
;   C:\ java\libs\myjar.jar
;   C:\ java\libs\myzip.zip
;   C:\java\libs\*.jar will add all jars contained in the C:\java\libs\
directory
;   C:\java\libs\**\*.jar will add all jars contained in the C:\java\libs\
directory and subdirectories

D:\java\libs\*.jar
D:\ODI\JDBC_drivers\sqljdbc_1.2\enu\sqljdbc.jar
```

You must restart ODI Studio after editing the `additional_path.txt` file for the changes to take effect.

5.5 Setting Java Home for ODI Studio

Set the `JAVA_HOME` environment variable to the location of the certified JDK before you start ODI Studio.

To set `JAVA_HOME` for ODI Studio:

1. Go to the `ORACLE_HOME/odi/studio/bin` directory.
2. Open the `odi.conf` file in an editor.
3. Add a line at the bottom of the file specifying the location of a certified JDK. . For 12c (12.2.1.2.6), the certified JDK is 1.8.0_101 and later. For example:

- (UNIX) `setenv JAVA_HOME/home/Oracle/Java/jdk1.8.0_101`
- (Windows) `set JAVA_HOME=C:\home\Oracle\Java\jdk1.8.0_101`

4. Save the file.

5.6 Starting ODI Studio

Start ODI Studio with the `odi` command.

To start ODI Studio:

1. Go to the `ORACLE_HOME/odi/studio` directory.
2. Enter the following command:
 - (UNIX) `./odi.sh`
 - (Windows) `odi.exe`

Note: On Windows operating systems *only* the user who installed ODI can start ODI Studio. No other user has privileges to start ODI Studio.

5.7 Connecting to the Master Repository

Connect to the master repository before creating an agent.

Before you create an agent, you must connect to the master repository.

Note:

If you have installed any previous version of Oracle Data Integrator (ODI) on the same computer you are currently using, you may be asked whether or not you want to import preferences and settings from those previous installations into Oracle Data Integrator Studio (ODI Studio). The procedure assumes that no previous versions of ODI exist on your computer.

For more information, refer to the topics in the ODI Studio **Help** menu.

To connect to the master repository:

1. From the ODI Studio menu, select **File**, then select **New**.

On the New gallery screen, select **Create a New ODI Repository Login**, then click **OK**.

2. On the Oracle Data Integrator Login screen, click the plus sign (+) icon to create a new login. On the Repository Connection Information screen:

- Oracle Data Integrator Connection section:
 - Login Name: Specify a custom login name.
 - User: Specify **SUPERVISOR** (all capital letters).
 - Password: Specify the supervisor password of RCU Custom Variable screen.

- Database Connection (Master Repository) section
 - User: Specify the schema user name for the Master repository. This should be *prefix_ODI_REPO* as specified on the Select Components screen in RCU.
 - Password: Specify the schema password for the Master repository. This was specified on the Schema Passwords screen in RCU.
 - Driver List: Select the appropriate driver for your database from the drop-down list.
 - URL: Specify the connection URL. Click on the magnifying glass icon for more information about the connection details for your driver.
- In the Work Repository section, select **Master Repository Only**.

Repository Connection Information

Oracle Data Integrator Connection

Login Name: Example ODI Project

User: SUPERVISOR

Password: ••••••••

Database Connection (Master Repository)

User: DEV1212_ODI_REPO

Password: ••••••••

Driver List: Oracle JDBC Driver

Driver Name: oracle.jdbc.OracleDriver

Url: jdbc:oracle:thin:@examplehost:1521:example_sid

Work Repository

☒ Master Repository Only

☐ Work Repository

☐ Default Connection

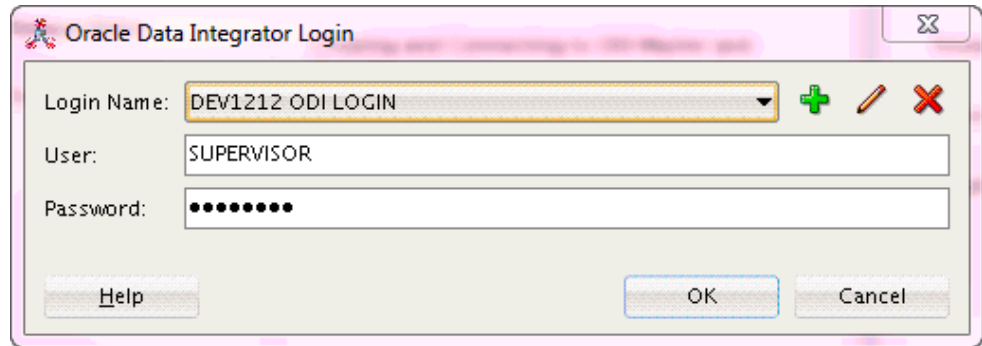
Help Test OK Cancel

Click **Test** to test the connection, and fix any errors. After the test is successful, click **OK** to create the connection.

3. Specify and confirm a new wallet password on the New Wallet Password screen.
4. After you have successfully created a new login, you are returned to ODI Studio. Select **Connect to Repository** and, when prompted, provide your new wallet password.

After providing your wallet password, the Oracle Data Integrator Login screen appears. Provide the following information to log in:

- a. In the drop-down menu in the Login Name field, select the name of the new login you just created.
- b. Specify SUPERVISOR as the user name.
- c. Provide the password for the Supervisor user.



When you are logged in, follow the instructions in [Creating an Agent in the Master Repository with ODI Studio](#) to create the agent.

Configuring the Domain for a Standalone Agent

Create and configure a standalone domain for a standalone agent in the standard installation topology.

Note:

If you install multiple agents, each agent must have its own distinct domain.

[Creating the Database Schemas](#)

Before you can configure an Oracle Data Integrator domain, you must create the Master and Work Repository (ODI_REPO) schemas on a certified database for use with this release of Oracle Fusion Middleware.

[Creating an Agent in the Master Repository with ODI Studio](#)

A physical agent corresponds to a single standalone agent or a Java EE agent and should have a unique name in the topology. You create an ODI agent in the master repository with ODI Studio.

[Configuring the Domain](#)

Use the Configuration Wizard to create and configure a domain.

[Adding Libraries to a Standalone or Standalone Collocated Agent](#)

After configuring a standalone or standalone collocated agent, you can specify additional libraries if required.

[Starting a Standalone or Standalone Collocated Agent Using Node Manager](#)

Start Node Manager, then start the standalone or standalone collocated agent.

[Starting a Standalone or Standalone Collocated Agent Without Node Manager](#)

Start a standalone or standalone collocated agent without Node Manager, use the agent command.

[Verifying the Configuration](#)

After completing all configuration steps, you can perform additional steps to verify that your domain is properly configured.

6.1 Creating the Database Schemas

Before you can configure an Oracle Data Integrator domain, you must create the Master and Work Repository (ODI_REPO) schemas on a certified database for use with this release of Oracle Fusion Middleware.

Follow the instructions in [Creating the Master and Work Repository Schemas](#) to create the required schemas.

6.2 Creating an Agent in the Master Repository with ODI Studio

A physical agent corresponds to a single standalone agent or a Java EE agent and should have a unique name in the topology. You create an ODI agent in the master repository with ODI Studio.

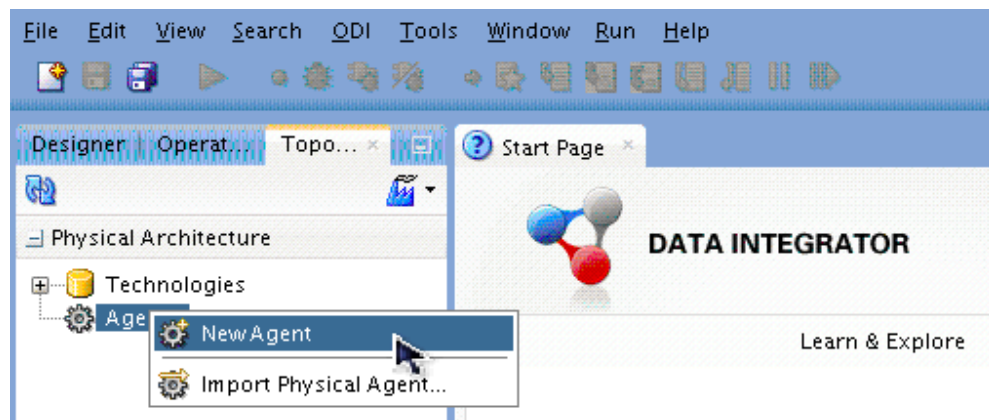
As part of its startup sequence, an agent connects to the master repository to verify that there is a physical agent defined in the master repository with its name. If it finds its entry, the agent continues with startup and, once started, it reads all the scheduled jobs of itself from the repository and starts processing them. If it does not find a physical agent entry for an agent, then the startup fails.

Before you can create an ODI agent, you must first start ODI Studio and connect to the master repository in ODI Studio. See:

- [Starting ODI Studio](#)
- [Connecting to the Master Repository](#)

To create a physical agent in the master repository with ODI Studio:

1. In the navigation pane on the left side, select the **Topology** tab, then right-click **Agents**, then select **New Agent**.

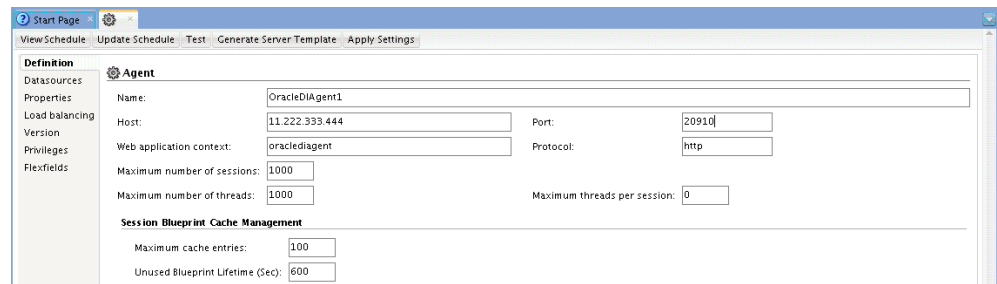


2. Specify the new agent details as summarized in the following table:

Field	Description
Name	Specify <code>OracleDIAgent1</code> as the agent name. This name must match the system component name.
Host	Enter the IP address or name of the machine where the agent is running. Do not use <code>localhost</code> .
Port	Enter the port number on which the agent listens.

Note:

If your environment includes a cluster with Oracle HTTP Server acting as a front-end to the cluster, provide the host name and port of the Oracle HTTP Server host instead. The name should be `OracleDIAgent`, not `OracleDIAgent1`.



3. From the ODI Studio menu, select **File** then **Save All** to save your changes.

6.3 Configuring the Domain

Use the Configuration Wizard to create and configure a domain.

For information on other methods to create domains, see Additional Tools for Creating, Extending, and Managing WebLogic Domains in *Creating WebLogic Domains Using the Configuration Wizard*.

Starting the Configuration Wizard

Start the Configuration Wizard to begin configuring a domain.

Navigating the Configuration Wizard Screens to Create and Configure the Domain

Enter required information in the Configuration Wizard screens to create and configure the domain for the topology.

6.3.1 Starting the Configuration Wizard

Start the Configuration Wizard to begin configuring a domain.

To start the Configuration Wizard:

1. Go to the `/oracle_common/common/bin` directory:
 (UNIX) `ORACLE_HOME/oracle_common/common/bin`
 (Windows) `ORACLE_HOME\oracle_common\common\bin`
 where `ORACLE_HOME` is your 12c (12.2.1.2.6) Oracle home.
2. Enter the following command:
 (UNIX) `./config.sh`
 (Windows) `config.cmd`

6.3.2 Navigating the Configuration Wizard Screens to Create and Configure the Domain

Enter required information in the Configuration Wizard screens to create and configure the domain for the topology.

Note:

You can use this procedure to extend an existing domain. If your needs do not match the instructions in the procedure, be sure to make your selections accordingly, or see the supporting documentation for more details.

Selecting the Domain Type and Domain Home Location

Use the Configuration Type screen to select a Domain home directory location, optimally outside the Oracle home directory.

Selecting the Configuration Template

Use the Templates screen to select the templates you require.

Specifying the Domain Mode and JDK

Use the JDK Selection screen to specify the Java Development Kit (JDK).

Specifying the Database Configuration Type

Use the Database Configuration type screen to specify details about the database and database schema.

Specifying JDBC Component Schema Information

Use the JDBC Component Schema screen to verify or specify details about the database schemas.

Testing the JDBC Connections

Use the JDBC Component Schema Test screen to test the data source connections.

Creating a New ODI System Component

Use the System Component screen to create a new ODI system component.

Configuring the ODI Server Access

Use the ODI Server Configuration screen to configure access to your ODI server.

Configuring Node Manager

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

Reviewing Your Configuration Specifications and Configuring the Domain

The Configuration Summary screen shows detailed configuration information for the domain you are about to create.

Writing Down Your Domain Home and Administration Server URL

The End of Configuration screen shows information about the domain you just configured.

6.3.2.1 Selecting the Domain Type and Domain Home Location

Use the Configuration Type screen to select a Domain home directory location, optimally outside the Oracle home directory.

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

To specify the Domain type and Domain home directory:

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

Tip:

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

6.3.2.2 Selecting the Configuration Template

Use the Templates screen to select the templates you require.

On the Templates screen, select the following template:

- Oracle Data Integrator - Standalone Agent

Note:

The Standalone template appears only if your *ORACLE_HOME* is an ODI Standalone installation. With the Enterprise installation, the Collocated Agent and JEE Agent templates appear.

Tip:

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

6.3.2.3 Specifying the Domain Mode and JDK

Use the JDK Selection screen to specify the Java Development Kit (JDK).

On the JDK Selection screen:

- Select the JDK on your system that is certified for use with Oracle Fusion Middleware. For 12c (12.2.1.2.6), the certified JDK is 1.8.0_101 and later.

6.3.2.4 Specifying the Database Configuration Type

Use the Database Configuration type screen to specify details about the database and database schema.

On the Database Configuration type screen, select **RCU Data**. This option instructs the Configuration Wizard to connect to the database and Service Table (STB) schema to automatically retrieve schema information for schemas needed to configure the domain.

Note:

If you select **Manual Configuration** on this screen, you must manually fill in parameters for your schema on the next screen.

After selecting **RCU Data**, fill in the following fields:

Field	Description
DBMS/Service	Enter the database DBMS name, or service name if you selected a service type driver. Example: orcl.exampledomain.com

Field	Description
Host Name	Enter the name of the server hosting the database. Example: <code>examplehost.exampledomain.com</code>
Port	Enter the port number on which the database listens. Example: <code>1521</code>
Schema Owner Schema Password	Enter the username and password for connecting to the database's Service Table schema. This is the schema username and password entered for the Service Table component on the Schema Passwords screen in the RCU (see Specifying Schema Passwords). The default username is <i>prefix_STB</i> , where <i>prefix</i> is the custom prefix that you defined in the RCU.

Click **Get RCU Configuration** when you finish specifying the database connection information. The following output in the Connection Result Log indicates that the operation succeeded:

```
Connecting to the database server...OK
Retrieving schema data from database server...OK
Binding local schema components with retrieved data...OK
```

Successfully Done.

Tip:

For more information about the schema installed when the RCU is run, see *About the Service Table Schema* in *Creating Schemas with the Repository Creation Utility*.

For more information about this screen, see *Database Configuration Type* in *Creating WebLogic Domains Using the Configuration Wizard*.

6.3.2.5 Specifying JDBC Component Schema Information

Use the JDBC Component Schema screen to verify or specify details about the database schemas.

Verify that the values populated on the JDBC Component Schema screen are correct for all schemas. If you selected **RCU Data** on the previous screen, the schema table should already be populated appropriately.

Tip:

For high availability environments, see the following sections in *High Availability Guide* for additional information on configuring data sources for Oracle RAC databases:

- [Configuring Active GridLink Data Sources with Oracle RAC](#)
- [Configuring Multi Data Sources](#)

For more information about this screen, see *JDBC Component Schema* in *Creating WebLogic Domains Using the Configuration Wizard*.

6.3.2.6 Testing the JDBC Connections

Use the JDBC Component Schema Test screen to test the data source connections.

A green check mark in the Status column indicates a successful test. If you encounter any issues, see the error message in the Connection Result Log section of the screen, fix the problem, then try to test the connection again.

By default, the schema password for each schema component is the password you specified while creating your schemas. If you want different passwords for different schema components, manually edit them in the previous screen (JDBC Component Schema) by entering the password you want in the **Schema Password** column, against each row. After specifying the passwords, select the check box corresponding to the schemas that you changed the password in and test the connection again.

Tip:

For more information about this screen, see JDBC Component Schema Test in *Creating WebLogic Domains Using the Configuration Wizard*.

6.3.2.7 Creating a New ODI System Component

Use the System Component screen to create a new ODI system component.

On the System Component screen, click **Add** then:

1. Under **System Component**, either accept the default ODI component (OracleDIAgent1) name, or specify a name of your choice.
2. Under **Component Type**, ensure that **ODI** is selected from the drop-down list.

System Component	Component Type	Restart Interval Seconds	Restart Delay Seconds
OracleDIAgent1	ODI	3600	0

Tip:

For more information this screen, see System Components in *Creating WebLogic Domains Using the Configuration Wizard*.

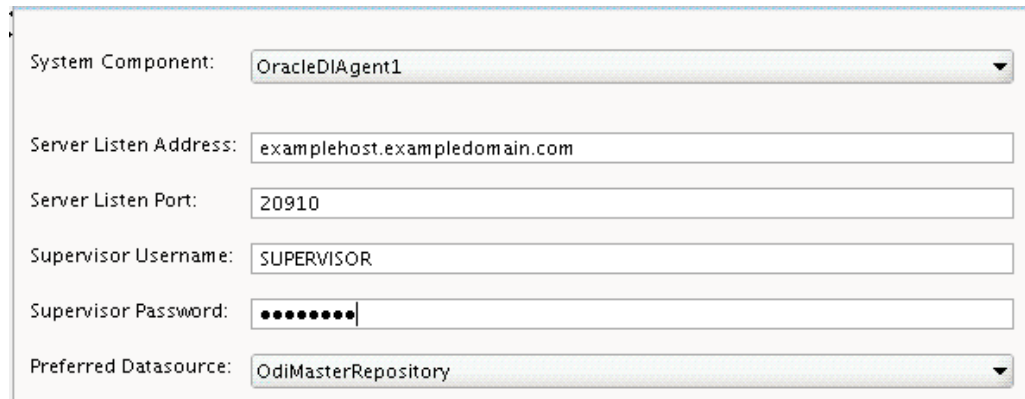
6.3.2.8 Configuring the ODI Server Access

Use the ODI Server Configuration screen to configure access to your ODI server.

Set ODI Server configuration values as specified in the following table.

Field	Description
System Component	Select the ODI system component (OracleDIAgent1).
Server Listen Address	Specify the IP address of the server where the ODI server should listen. Do not use localhost.
Server Listen Port	Enter the port number on which ODI server listens.
Supervisor Username	Specify SUPERVISOR as the user name.

Field	Description
Supervisor Password	Specify the Supervisor user password, as specified during schema creation.
Preferred Datasource	Use the default OdiMasterRepository; do not change this field.



The screenshot shows a configuration window with the following fields:

- System Component:** OracleDIAgent1 (dropdown menu)
- Server Listen Address:** examplehost.exampledomain.com (text field)
- Server Listen Port:** 20910 (text field)
- Supervisor Username:** SUPERVISOR (text field)
- Supervisor Password:** [masked with dots] (password field)
- Preferred Datasource:** OdiMasterRepository (dropdown menu)

Tip:

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

6.3.2.9 Configuring Node Manager

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

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

Tip:

For more information about this screen, see Node Manager in *Creating WebLogic Domains Using the Configuration Wizard*.

For more about Node Manager types, see Node Manager Overview in *Administering Node Manager for Oracle WebLogic Server*.

6.3.2.10 Reviewing Your Configuration Specifications and Configuring the Domain

The Configuration Summary screen shows detailed configuration information for the domain you are about to create.

Review each item on the screen and verify that the information is correct. To make any changes, go back to a screen by clicking the **Back** button or selecting the screen in the navigation pane. Domain creation does not start until you click **Create**.

Tip:

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

6.3.2.11 Writing Down Your Domain Home and Administration Server URL

The End of Configuration screen shows information about the domain you just configured.

Make a note of the following items because you need them later:

- Domain Location
- Administration Server URL

You need the domain location to access scripts that start Node Manager and Administration Server, and you need the URL to access the Administration Server.

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

6.4 Adding Libraries to a Standalone or Standalone Collocated Agent

After configuring a standalone or standalone collocated agent, you can specify additional libraries if required.

To add libraries to a ODI standalone or standalone collocated agent:

1. Set the environment variable `ODI_ADDITIONAL_CLASSPATH` to locate additional jars before starting the agent. For example:

```
ODI_ADDITIONAL_CLASSPATH=/share/libs/mytool.jar:/share/libs/  
drivers/mydriver.jar
```

2. Do one the following:

- Copy the additional libraries to the `DOMAIN_HOME/lib` directory. The ODI standalone and standalone collocated agents will automatically add these libraries to the agent's classpath.
- Edit the `DOMAIN_HOME/config/fmwconfig/components/ODI/Agent Name/bin/instance.sh/cmd` command to add the libraries to the `ODI_POST_CLASSPATH` variable.

6.5 Starting a Standalone or Standalone Collocated Agent Using Node Manager

Start Node Manager, then start the standalone or standalone collocated agent.

Note:

If you have not yet configured the physical agent in the master repository, go to [Creating an Agent in the Master Repository with ODI Studio](#).

[Starting Node Manager](#)

[Starting a Standalone or Standalone Collocated Agent](#)

6.5.1 Starting Node Manager

To start the per-domain Node Manager:

1. Go to the `DOMAIN_HOME/bin` directory.

2. Enter the following command:

- (UNIX) Using `nohup` and `nm.out` as an example output file:

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

where *LOG_DIR* is the location of directory in which you want to store the log files.

- (Windows) `startNodeManager.cmd`

Note:

On Windows operating systems, Oracle recommends that you configure Node Manager to run as a startup service. This allows Node Manager to start up automatically each time the system is restarted.

See *Running Node Manager as a Startup Service* in *Administering Node Manager for Oracle WebLogic Server*.

6.5.2 Starting a Standalone or Standalone Collocated Agent

To start an ODI standalone agent when using Node Manager:

1. Go to the *DOMAIN_HOME/bin* directory.
2. Start the agent:
 - (UNIX) `./startComponent.sh OracleDIAgent1`
 - (Windows) `startComponent.cmd OracleDIAgent1`
3. At the prompt, enter the Administrator password for the domain.

To verify that your agent was started successfully, go to the following URL in your browser:

```
http://examplehost.exampledomain.com:port/oraclediagent
```

6.6 Starting a Standalone or Standalone Collocated Agent Without Node Manager

Start a standalone or standalone collocated agent without Node Manager, use the `agent` command.

To start a standalone agent without Node Manager:

1. Go to the *DOMAIN_HOME/bin* directory.
2. Start the agent:
 - (UNIX) `./agent.sh -NAME=OracleDIAgent1`
 - (Windows) `agent.cmd -NAME=OracleDIAgent1`

where `-NAME` must be entered in all capital letters, and the name of the agent (in this example, `OracleDIAgent1`) is case-sensitive.

6.7 Verifying the Configuration

After completing all configuration steps, you can perform additional steps to verify that your domain is properly configured.

To verify that the domain is configured properly, see [Performing Additional Domain Configuration Tasks](#).

Configuring the Domain for a Standalone Collocated Agent

Create and configure a WebLogic domain for a standalone collocated agent in the standard installation topology.

[Creating the Database Schemas](#)

Before you can configure an Oracle Data Integrator domain, you must create the Master and Work Repository (ODI_REPO) schemas on a certified database for use with this release of Oracle Fusion Middleware.

[Creating an Agent in the Master Repository with ODI Studio](#)

A physical agent corresponds to a single standalone agent or a Java EE agent and should have a unique name in the topology. You create an ODI agent in the master repository with ODI Studio.

[Configuring the Domain](#)

Use the Configuration Wizard to create and configure a domain.

[Adding Libraries to a Standalone or Standalone Collocated Agent](#)

After configuring a standalone or standalone collocated agent, you can specify additional libraries if required.

[Starting a Standalone or Standalone Collocated Agent Using Node Manager](#)

Start Node Manager, then start the standalone or standalone collocated agent.

[Starting a Standalone or Standalone Collocated Agent Without Node Manager](#)

Start a standalone or standalone collocated agent without Node Manager, use the `agent` command.

[Verifying the Configuration](#)

After completing all configuration steps, you can perform additional steps to verify that your domain is properly configured.

7.1 Creating the Database Schemas

Before you can configure an Oracle Data Integrator domain, you must create the Master and Work Repository (ODI_REPO) schemas on a certified database for use with this release of Oracle Fusion Middleware.

Follow the instructions in [Creating the Master and Work Repository Schemas](#) to create the required schemas.

7.2 Creating an Agent in the Master Repository with ODI Studio

A physical agent corresponds to a single standalone agent or a Java EE agent and should have a unique name in the topology. You create an ODI agent in the master repository with ODI Studio.

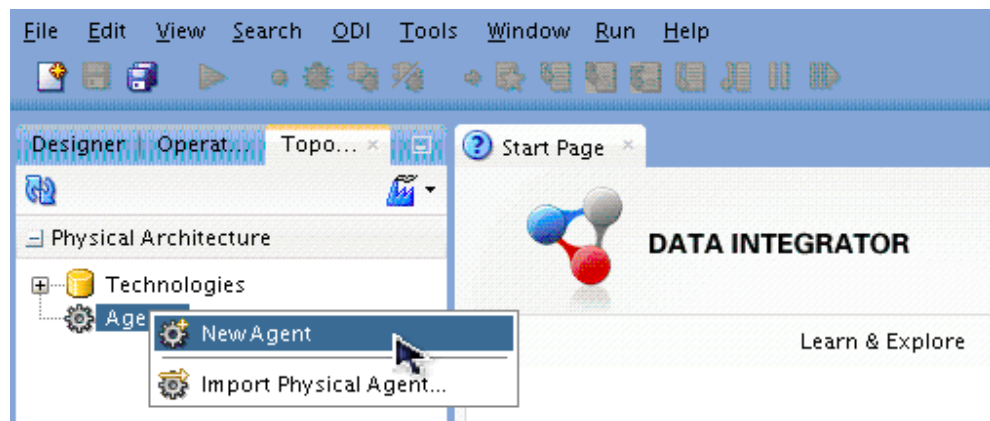
As part of its startup sequence, an agent connects to the master repository to verify that there is a physical agent defined in the master repository with its name. If it finds its entry, the agent continues with startup and, once started, it reads all the scheduled jobs of itself from the repository and starts processing them. If it does not find a physical agent entry for an agent, then the startup fails.

Before you can create an ODI agent, you must first start ODI Studio and connected to the master repository in ODI Studio. See:

- [Starting ODI Studio](#)
- [Connecting to the Master Repository](#)

To create a physical agent in the master repository with ODI Studio:

1. In the navigation pane on the left side, select the **Topology** tab, then right-click **Agents**, then select **New Agent**.

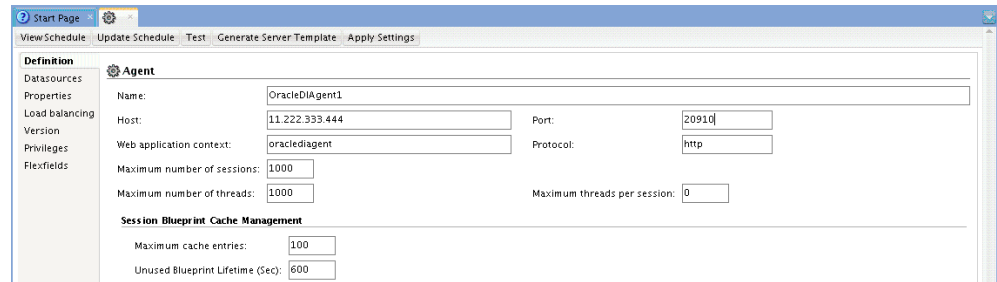


2. Specify the new agent details as summarized in the following table:

Field	Description
Name	Specify OracleDIAgent1 as the agent name. This name must match the system component name.
Host	Enter the IP address or name of the machine where the agent is running. Do not use localhost.
Port	Enter the port number on which the agent listens.

Note:

If your environment includes a cluster with Oracle HTTP Server acting as a front-end to the cluster, provide the host name and port of the Oracle HTTP Server host instead. The name should be OracleDIAgent, not OracleDIAgent1.



3. From the ODI Studio menu, select **File** then **Save All** to save your changes.

7.3 Configuring the Domain

Use the Configuration Wizard to create and configure a domain.

For information on other methods to create domains, see Additional Tools for Creating, Extending, and Managing WebLogic Domains in *Creating WebLogic Domains Using the Configuration Wizard*.

Starting the Configuration Wizard

Start the Configuration Wizard to begin configuring a domain.

Navigating the Configuration Wizard Screens to Create and Configure the Domain

Enter required information in the Configuration Wizard screens to create and configure the domain for the topology.

7.3.1 Starting the Configuration Wizard

Start the Configuration Wizard to begin configuring a domain.

To start the Configuration Wizard:

1. Go to the `/oracle_common/common/bin` directory:
 (UNIX) `ORACLE_HOME/oracle_common/common/bin`
 (Windows) `ORACLE_HOME\oracle_common\common\bin`
 where `ORACLE_HOME` is your 12c (12.2.1.2.6) Oracle home.
2. Enter the following command:
 (UNIX) `./config.sh`
 (Windows) `config.cmd`

7.3.2 Navigating the Configuration Wizard Screens to Create and Configure the Domain

Enter required information in the Configuration Wizard screens to create and configure the domain for the topology.

Note:

You can use this procedure to extend an existing domain. If your needs do not match the instructions in the procedure, be sure to make your selections accordingly, or see the supporting documentation for more details.

Selecting the Domain Type and Domain Home Location

Use the Configuration Type screen to select a Domain home directory location, optimally outside the Oracle home directory.

Selecting the Configuration Template

Use the Templates screen to select the templates you require.

Configuring the Administrator Account

Use the Administrator Account screen to specify the user name and password for the default WebLogic Administrator account for the domain.

Specifying the Domain Mode and JDK

Use the Domain Mode and JDK screen to specify the domain mode and Java Development Kit (JDK).

Specifying the Database Configuration Type

Use the Database Configuration type screen to specify details about the database and database schema.

Specifying JDBC Component Schema Information

Use the JDBC Component Schema screen to verify or specify details about the database schemas.

Testing the JDBC Connections

Use the JDBC Component Schema Test screen to test the data source connections.

Selecting Advanced Configuration

Use the Advanced Configuration screen to complete the domain configuration.

Configuring the Administration Server Listen Address

Use the Administration Server screen to select the IP address of the host.

Configuring Node Manager

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

Creating a New ODI System Component

Use the System Component screen to create a new ODI system component.

Configuring the ODI Server Access

Use the ODI Server Configuration screen to configure access to your ODI server.

Specifying the Node Manager Host Address

Use the Machines screen to select the IP address of the host running Node Manager.

Assigning System Components to Machines

Use the Assign System Components to Machines screen to assign the system component to the ODI machine.

Reviewing Your Configuration Specifications and Configuring the Domain

The Configuration Summary screen shows detailed configuration information for the domain you are about to create.

Writing Down Your Domain Home and Administration Server URL

The End of Configuration screen shows information about the domain you just configured.

7.3.2.1 Selecting the Domain Type and Domain Home Location

Use the Configuration Type screen to select a Domain home directory location, optimally outside the Oracle home directory.

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

To specify the Domain type and Domain home directory:

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

Tip:

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

7.3.2.2 Selecting the Configuration Template

Use the Templates screen to select the templates you require.

On the Templates screen, select the following template:

- Oracle Data Integrator - Standalone Collocated Agent

Selecting this template automatically selects the following as dependencies:

- Oracle JRF
- Oracle Coherence Cluster Extension

Tip:

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

7.3.2.3 Configuring the Administrator Account

Use the Administrator Account screen to specify the user name and password for the default WebLogic Administrator account for the domain.

Oracle recommends that you make a note of the user name and password that you enter on this screen; you need these credentials later to boot and connect to the domain's Administration Server.

Tip: For more information about this screen, see Administrator Account in *Creating WebLogic Domains Using the Configuration Wizard*.

7.3.2.4 Specifying the Domain Mode and JDK

Use the Domain Mode and JDK screen to specify the domain mode and Java Development Kit (JDK).

On the Domain Mode and JDK screen:

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

Tip:

For more information about this screen, see Domain Mode and JDK in *Creating WebLogic Domains Using the Configuration Wizard*.

7.3.2.5 Specifying the Database Configuration Type

Use the Database Configuration type screen to specify details about the database and database schema.

On the Database Configuration type screen, select **RCU Data**. This option instructs the Configuration Wizard to connect to the database and Service Table (STB) schema to automatically retrieve schema information for schemas needed to configure the domain.

Note:

If you select **Manual Configuration** on this screen, you must manually fill in parameters for your schema on the next screen.

After selecting **RCU Data**, fill in the following fields:

Field	Description
DBMS/Service	Enter the database DBMS name, or service name if you selected a service type driver. Example: <code>orcl.exampledomain.com</code>
Host Name	Enter the name of the server hosting the database. Example: <code>examplehost.exampledomain.com</code>
Port	Enter the port number on which the database listens. Example: <code>1521</code>
Schema Owner Schema Password	Enter the username and password for connecting to the database's Service Table schema. This is the schema username and password entered for the Service Table component on the Schema Passwords screen in the RCU (see Specifying Schema Passwords). The default username is <code>prefix_STB</code> , where <i>prefix</i> is the custom prefix that you defined in the RCU.

Click **Get RCU Configuration** when you finish specifying the database connection information. The following output in the Connection Result Log indicates that the operation succeeded:

```
Connecting to the database server...OK
Retrieving schema data from database server...OK
Binding local schema components with retrieved data...OK
```

Successfully Done.

Tip:

For more information about the schema installed when the RCU is run, see *About the Service Table Schema in Creating Schemas with the Repository Creation Utility*.

For more information about this screen, see *Database Configuration Type in Creating WebLogic Domains Using the Configuration Wizard*.

7.3.2.6 Specifying JDBC Component Schema Information

Use the JDBC Component Schema screen to verify or specify details about the database schemas.

Verify that the values populated on the JDBC Component Schema screen are correct for all schemas. If you selected **RCU Data** on the previous screen, the schema table should already be populated appropriately.

Tip:

For high availability environments, see the following sections in *High Availability Guide* for additional information on configuring data sources for Oracle RAC databases:

- Configuring Active GridLink Data Sources with Oracle RAC
- Configuring Multi Data Sources

For more information about this screen, see *JDBC Component Schema in Creating WebLogic Domains Using the Configuration Wizard*.

7.3.2.7 Testing the JDBC Connections

Use the JDBC Component Schema Test screen to test the data source connections.

A green check mark in the Status column indicates a successful test. If you encounter any issues, see the error message in the Connection Result Log section of the screen, fix the problem, then try to test the connection again.

By default, the schema password for each schema component is the password you specified while creating your schemas. If you want different passwords for different schema components, manually edit them in the previous screen (JDBC Component Schema) by entering the password you want in the **Schema Password** column, against each row. After specifying the passwords, select the check box corresponding to the schemas that you changed the password in and test the connection again.

Tip:

For more information about this screen, see *JDBC Component Schema Test in Creating WebLogic Domains Using the Configuration Wizard*.

7.3.2.8 Selecting Advanced Configuration

Use the Advanced Configuration screen to complete the domain configuration.

On the Advanced Configuration screen, select:

- Administration Server

Required to properly configure the listen address of the Administration Server.

- Node Manager

Required to configure Node Manager.

- System Components

Required to configure the standalone agent.

Optionally, select other available options as required for your desired installation environment. The steps in this guide describe a standard installation topology, but you may choose to follow a different path. If your installation requirements extend to additional options outside the scope of this guide, you may be presented with additional screens to configure those options. For information about all Configuration Wizard screens, see Configuration Wizard Screens in *Creating WebLogic Domains Using the Configuration Wizard*.

7.3.2.9 Configuring the Administration Server Listen Address

Use the Administration Server screen to select the IP address of the host.

Select the drop-down list next to **Listen Address** and select the IP address of the host where the Administration Server will reside, or use the system name or DNS name that maps to a single IP address. Do *not* use **All Local Addresses**.

Do *not* specify any server groups for the Administration Server.

7.3.2.10 Configuring Node Manager

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

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

Tip:

For more information about this screen, see Node Manager in *Creating WebLogic Domains Using the Configuration Wizard*.

For more about Node Manager types, see Node Manager Overview in *Administering Node Manager for Oracle WebLogic Server*.

7.3.2.11 Creating a New ODI System Component

Use the System Component screen to create a new ODI system component.

On the System Component screen, click **Add** then:

1. Under **System Component**, either accept the default ODI component (OracleDIAgent1) name, or specify a name of your choice.
2. Under **Component Type**, ensure that **ODI** is selected from the drop-down list.

System Component	Component Type	Restart Interval Seconds	Restart Delay Seconds
OracleDIAgent1	ODI	3600	0

Tip:

For more information this screen, see System Components in *Creating WebLogic Domains Using the Configuration Wizard*.

7.3.2.12 Configuring the ODI Server Access

Use the ODI Server Configuration screen to configure access to your ODI server.

Set ODI Server configuration values as specified in the following table.

Field	Description
System Component	Select the ODI system component (OracleDIAgent1).
Server Listen Address	Specify the IP address of the server where the ODI server should listen. Do not use localhost.
Server Listen Port	Enter the port number on which ODI server listens.
Supervisor Username	Specify SUPERVISOR as the user name.
Supervisor Password	Specify the Supervisor user password, as specified during schema creation.
Preferred Datasource	Use the default OdiMasterRepository; do not change this field.

The screenshot shows a configuration window with the following fields and values:

- System Component:** OracleDIAgent1 (selected from a dropdown)
- Server Listen Address:** examplehost.exampledomain.com
- Server Listen Port:** 20910
- Supervisor Username:** SUPERVISOR
- Supervisor Password:** masked with 10 dots
- Preferred Datasource:** OdiMasterRepository (selected from a dropdown)

Tip:

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

7.3.2.13 Specifying the Node Manager Host Address

Use the Machines screen to select the IP address of the host running Node Manager.

The system component you just created is automatically assigned to a machine called LocalODIMachine. The Machines screen shows that this machine is already created.

In the **Node Manager Listen Address** field, select the IP address of the host running Node Manager. Do not use localhost.

Name	Node Manager Listen Address	Node Manager Listen Port
LocalODIMachine	11.222.333.444	5556

Tip:

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

7.3.2.14 Assigning System Components to Machines

Use the Assign System Components to Machines screen to assign the system component to the ODI machine.

On the Assign System Components to Machines screen, verify that the system component `OracleDIAgent1` is assigned to the `LocalODIMachine`.

Tip:

For more information about the options on this screen, see *Assign System Components to Machines* in *Creating WebLogic Domains Using the Configuration Wizard*.

7.3.2.15 Reviewing Your Configuration Specifications and Configuring the Domain

The Configuration Summary screen shows detailed configuration information for the domain you are about to create.

Review each item on the screen and verify that the information is correct. To make any changes, go back to a screen by clicking the **Back** button or selecting the screen in the navigation pane. Domain creation does not start until you click **Create**.

Tip:

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

7.3.2.16 Writing Down Your Domain Home and Administration Server URL

The End of Configuration screen shows information about the domain you just configured.

Make a note of the following items because you need them later:

- Domain Location
- Administration Server URL

You need the domain location to access scripts that start Node Manager and Administration Server, and you need the URL to access the Administration Server.

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

7.4 Adding Libraries to a Standalone or Standalone Collocated Agent

After configuring a standalone or standalone collocated agent, you can specify additional libraries if required.

To add libraries to a ODI standalone or standalone collocated agent:

1. Set the environment variable `ODI_ADDITIONAL_CLASSPATH` to locate additional jars before starting the agent. For example:

```
ODI_ADDITIONAL_CLASSPATH=/share/libs/mytool.jar:/share/libs/  
drivers/mydriver.jar
```

2. Do one the following:

- Copy the additional libraries to the `DOMAIN_HOME/lib` directory. The ODI standalone and standalone collocated agents will automatically add these libraries to the agent's classpath.
- Edit the `DOMAIN_HOME/config/fmwconfig/components/ODI/Agent Name/bin/instance.sh/cmd` command to add the libraries to the `ODI_POST_CLASSPATH` variable.

7.5 Starting a Standalone or Standalone Collocated Agent Using Node Manager

Start Node Manager, then start the standalone or standalone collocated agent.

Note:

If you have not yet configured the physical agent in the master repository, go to [Creating an Agent in the Master Repository with ODI Studio](#).

[Starting Node Manager](#)

[Starting a Standalone or Standalone Collocated Agent](#)

7.5.1 Starting Node Manager

To start the per-domain Node Manager:

1. Go to the `DOMAIN_HOME/bin` directory.
2. Enter the following command:
 - (UNIX) Using `nohup` and `nm.out` as an example output file:

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

where *LOG_DIR* is the location of directory in which you want to store the log files.

- (Windows) `startNodeManager.cmd`

Note:

On Windows operating systems, Oracle recommends that you configure Node Manager to run as a startup service. This allows Node Manager to start up automatically each time the system is restarted.

See Running Node Manager as a Startup Service in *Administering Node Manager for Oracle WebLogic Server*.

7.5.2 Starting a Standalone or Standalone Collocated Agent

To start an ODI standalone agent when using Node Manager:

1. Go to the *DOMAIN_HOME/bin* directory.
2. Start the agent:
 - (UNIX) `./startComponent.sh OracleDIAgent1`
 - (Windows) `startComponent.cmd OracleDIAgent1`
3. At the prompt, enter the Administrator password for the domain.

To verify that your agent was started successfully, go to the following URL in your browser:

`http://examplehost.exampledomain.com:port/oraclediagent`

7.6 Starting a Standalone or Standalone Collocated Agent Without Node Manager

Start a standalone or standalone collocated agent without Node Manager, use the `agent` command.

To start a standalone agent without Node Manager:

1. Go to the *DOMAIN_HOME/bin* directory.
2. Start the agent:
 - (UNIX) `./agent.sh -NAME=OracleDIAgent1`
 - (Windows) `agent.cmd -NAME=OracleDIAgent1`

where `-NAME` must be entered in all capital letters, and the name of the agent (in this example, `OracleDIAgent1`) is case-sensitive.

7.7 Verifying the Configuration

After completing all configuration steps, you can perform additional steps to verify that your domain is properly configured.

To verify that the domain is configured properly, see [Performing Additional Domain Configuration Tasks](#).

Configuring the Domain for a Java EE Agent

Create and configure a WebLogic domain for a Java EE agent in the standard installation topology.

[Creating the Database Schemas](#)

Before you can configure an Oracle Data Integrator domain, you must create the Master and Work Repository (ODI_REPO) schemas on a certified database for use with this release of Oracle Fusion Middleware.

[Creating an Agent in the Master Repository with ODI Studio](#)

A physical agent corresponds to a single standalone agent or a Java EE agent and should have a unique name in the topology. You create an ODI agent in the master repository with ODI Studio.

[Generating a Template for a Java EE Agent](#)

Use the Server Template Generation wizard to generate the non-default template for deploying a Java EE agent defined in the ODI master repository.

[Configuring the Domain](#)

Use the Configuration Wizard to create and configure a domain.

[Adding Libraries to a Java EE Agent](#)

After configuring a Java EE agent, you can specify additional libraries if required.

[Starting the Servers](#)

After configuration is complete, start Node Manager, then the WebLogic Administration Server and Managed Servers.

[Verifying the Configuration](#)

After completing all configuration steps, you can perform additional steps to verify that your domain is properly configured.

8.1 Creating the Database Schemas

Before you can configure an Oracle Data Integrator domain, you must create the Master and Work Repository (ODI_REPO) schemas on a certified database for use with this release of Oracle Fusion Middleware.

Follow the instructions in [Creating the Master and Work Repository Schemas](#) to create the required schemas.

8.2 Creating an Agent in the Master Repository with ODI Studio

A physical agent corresponds to a single standalone agent or a Java EE agent and should have a unique name in the topology. You create an ODI agent in the master repository with ODI Studio.

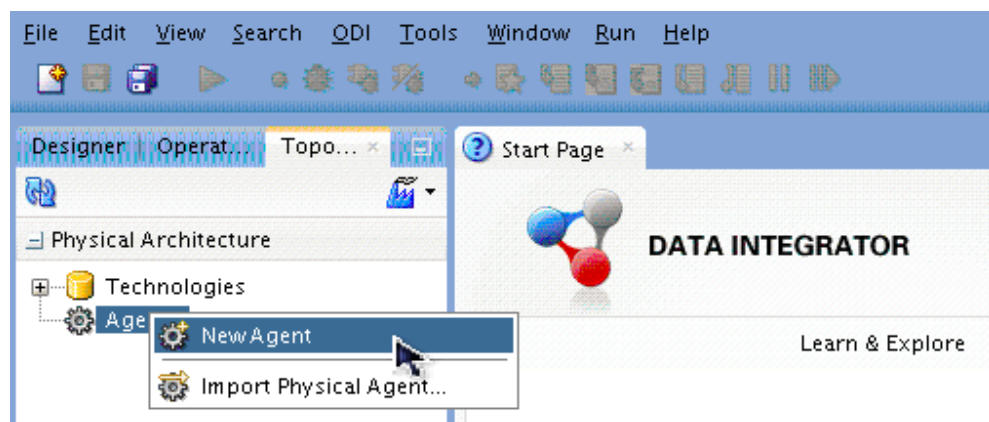
As part of its startup sequence, an agent connects to the master repository to verify that there is a physical agent defined in the master repository with its name. If it finds its entry, the agent continues with startup and, once started, it reads all the scheduled jobs of itself from the repository and starts processing them. If it does not find a physical agent entry for an agent, then the startup fails.

Before you can create an ODI agent, you must first start ODI Studio and connect to the master repository in ODI Studio. See:

- [Starting ODI Studio](#)
- [Connecting to the Master Repository](#)

To create a physical agent in the master repository with ODI Studio:

1. In the navigation pane on the left side, select the **Topology** tab, then right-click **Agents**, then select **New Agent**.



2. Specify the new agent details as summarized in the following table:

Field	Description
Name	Specify <code>OracleDIAgent1</code> as the agent name. This name must match the system component name.
Host	Enter the IP address or name of the machine where the agent is running. Do not use <code>localhost</code> .
Port	Enter the port number on which the agent listens.

Note:

If your environment includes a cluster with Oracle HTTP Server acting as a front-end to the cluster, provide the host name and port of the Oracle HTTP Server host instead. The name should be `OracleDIAgent`, not `OracleDIAgent1`.

The screenshot shows the 'Agent' configuration window in ODI Studio. The 'Definition' tab is active, and the 'Agent' sub-tab is selected. The configuration fields are as follows:

Field	Value
Name	OracleDiAgent1
Host	11.222.333.444
Port	20910
Web application context	oraclediagent
Protocol	http
Maximum number of sessions	1000
Maximum number of threads	1000
Maximum threads per session	0
Maximum cache entries	100
Unused Blueprint Lifetime (Sec)	600

3. From the ODI Studio menu, select **File** then **Save All** to save your changes.

8.3 Generating a Template for a Java EE Agent

Use the Server Template Generation wizard to generate the non-default template for deploying a Java EE agent defined in the ODI master repository.

Use this procedure if you require changes to the default template that deploys a Java EE agent with default name and settings. To create a Java EE agent with the Server Template Generation wizard:

1. From the **Physical Agent Editor** menu, select **Generate Server Template** to start the Template Generation wizard.
2. In the Agent Information step, review the agent information and modify the default configuration as appropriate. This information includes the following parameters: the **Agent Name**, the **Datasource JNDI Name**, the **Connection Retry Count**, the **Retry Delay**, and the **Supervisor Key**.
 - The **Connection Retry Count** specifies the number of retry attempts if the agent loses the connection to the repository. Note that setting this parameter to a non-zero value enables a high availability connection retry feature if the ODI repository resides on an Oracle RAC database. If this feature is enabled, the agent can continue to execute sessions without interruptions even if one or more Oracle RAC nodes become unavailable.
 - The **Retry Delay** specifies the number of milliseconds between connection retry attempts.
 - The **Supervisor Key** specifies the name of the key in the application server credential store that contains the login and the password of an ODI user with Supervisor privileges. The agent uses these credentials to connect to the repository.
3. Click **Next**.
4. To add domain and shared libraries for the agent, navigate to the **Libraries and Drivers** page, and then check the libraries you want to deploy with your agent. Libraries can be any JAR or ZIP files required by the agent. Select any additional JDBC drivers or libraries for accessing the source and target data servers in this page. Note that library name validation is limited within the newly added libraries, not against already deployed shared libraries.
 - Domain libraries are the libraries deployed in a domain that are available to all applications running in the domain. This approach to adding libraries is typically used when adding infrequently changed JAR files. Note that when using this approach, you must reboot all servers in the domain for the change to take effect.

- Shared libraries are libraries you specify in the agent deployment descriptor before deploying the agent to the domain. In this way, multiple applications can use the libraries resources and duplication is avoided. This approach to adding libraries is used for libraries that may need modifications or upgrade. Shared libraries allow you to change libraries without restarting the server, but you may need to restart the application.

5. Click **Next**.

6. In **Template Target and Summary** step, enter the **Target Template Path** that specifies the location where the server template is generated.

7. Click **Finish** to close the wizard and generate the server template with your specifications.

The generated template can be used to deploy the agent in an Oracle WebLogic Server domain.

8.4 Configuring the Domain

Use the Configuration Wizard to create and configure a domain.

For information on other methods to create domains, see Additional Tools for Creating, Extending, and Managing WebLogic Domains in *Creating WebLogic Domains Using the Configuration Wizard*.

[Starting the Configuration Wizard](#)

Start the Configuration Wizard to begin configuring a domain.

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

Enter required information in the Configuration Wizard screens to create and configure the domain for the topology.

8.4.1 Starting the Configuration Wizard

Start the Configuration Wizard to begin configuring a domain.

To start the Configuration Wizard:

1. Go to the `/oracle_common/common/bin` directory:

(UNIX) `ORACLE_HOME/oracle_common/common/bin`

(Windows) `ORACLE_HOME\oracle_common\common\bin`

where `ORACLE_HOME` is your 12c (12.2.1.2.6) Oracle home.

2. Enter the following command:

(UNIX) `./config.sh`

(Windows) `config.cmd`

8.4.2 Navigating the Configuration Wizard Screens to Create and Configure the Domain

Enter required information in the Configuration Wizard screens to create and configure the domain for the topology.

Note:

You can use this procedure to extend an existing domain. If your needs do not match the instructions in the procedure, be sure to make your selections accordingly, or see the supporting documentation for more details.

Selecting the Domain Type and Domain Home Location

Use the Configuration Type screen to select a Domain home directory location, optimally outside the Oracle home directory.

Selecting the Configuration Template

Use the Templates screen to select the templates you require.

Selecting the Application Home Location

Use the Application Location screen to select the location to store applications associated with your domain, also known as the *Application home* directory.

Configuring the Administrator Account

Use the Administrator Account screen to specify the user name and password for the default WebLogic Administrator account for the domain.

Specifying the Domain Mode and JDK

Use the Domain Mode and JDK screen to specify the domain mode and Java Development Kit (JDK).

Specifying the Database Configuration Type

Use the Database Configuration type screen to specify details about the database and database schema.

Specifying JDBC Component Schema Information

Use the JDBC Component Schema screen to verify or specify details about the database schemas.

Testing the JDBC Connections

Use the JDBC Component Schema Test screen to test the data source connections.

Creating Credential Keys

Use the Credentials screen to create two keys.

Selecting Advanced Configuration

Use the Advanced Configuration screen to complete the domain configuration.

Configuring the Administration Server Listen Address

Use the Administration Server screen to select the IP address of the host.

Configuring Node Manager

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

Configuring Managed Servers for Oracle Data Integrator

Use the Managed Servers screen to configure Managed Servers.

Configuring a Cluster for Oracle Data Integrator

Use the Clusters screen to create a new cluster.

Defining Server Templates

If you are creating dynamic clusters for a high availability setup, use the Server Templates screen to define one or more server templates for domain.

Configuring Dynamic Servers

If you are creating dynamic clusters for a high availability setup, use the Dynamic Servers screen to configure the dynamic servers.

Assigning Oracle Data Integrator Managed Servers to the Cluster

Use the Assign Servers to Clusters screen to assign Managed Servers to a new *configured cluster*. A configured cluster is a cluster you configure manually. You do not use this screen if you are configuring a *dynamic cluster*, a cluster that contains one or more generated server instances that are based on a server template.

Configuring Coherence Clusters

Use the Coherence Clusters screen to configure the Coherence cluster.

Creating a New Oracle Data Integrator Machine

Use the Machines screen to create new machines in the domain. A machine is required so that Node Manager can start and stop servers.

Assigning Servers to Oracle Data Integrator Machines

Use the Assign Servers to Machines screen to assign the Administration Server and Managed Servers to the new machine you just created.

Virtual Targets

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

Partitions

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

Reviewing Your Configuration Specifications and Configuring the Domain

The Configuration Summary screen shows detailed configuration information for the domain you are about to create.

Writing Down Your Domain Home and Administration Server URL

The End of Configuration screen shows information about the domain you just configured.

8.4.2.1 Selecting the Domain Type and Domain Home Location

Use the Configuration Type screen to select a Domain home directory location, optimally outside the Oracle home directory.

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

To specify the Domain type and Domain home directory:

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

Tip:

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

8.4.2.2 Selecting the Configuration Template

Use the Templates screen to select the templates you require.

On the Templates screen, make sure **Create Domain Using Product Templates** is selected, then select the following templates:

- Oracle Enterprise Manager Plugin for ODI
Selecting this template automatically selects the following as dependencies:
 - Oracle Enterprise Manager
 - Oracle JRF
 - WebLogic Coherence Cluster Extension
- Oracle Data Integrator - Agent
Selecting this template automatically selects the following as dependencies:
 - Oracle Data Integrator - Agent Libraries
 - Oracle Data Integrator SDK Shared Library TemplateIn addition, select the following templates:
 - Oracle Data Integrator - JFR
 - Oracle Data Integrator - REST Services
- Oracle Data Integrator - Console

Note:

For information about configuring and managing a secondary topology using the Oracle Data Integrator Console see [Oracle Data Integrator Components](#).

Tip:

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

8.4.2.3 Selecting the Application Home Location

Use the Application Location screen to select the location to store applications associated with your domain, also known as the *Application home* directory.

Oracle recommends that you locate your Application home in accordance with the directory structure in What Are the Key Oracle Fusion Middleware Directories? in *Understanding Oracle Fusion Middleware*, where the Application home is located outside

the Oracle home directory. This directory structure helps avoid issues when you need to upgrade or re-install your software.

Tip:

For more about the Application home directory, see [About the Application Home Directory](#).

For more information about this screen, see Application Location in *Creating WebLogic Domains Using the Configuration Wizard*.

8.4.2.4 Configuring the Administrator Account

Use the Administrator Account screen to specify the user name and password for the default WebLogic Administrator account for the domain.

Oracle recommends that you make a note of the user name and password that you enter on this screen; you need these credentials later to boot and connect to the domain's Administration Server.

Tip: For more information about this screen, see Administrator Account in *Creating WebLogic Domains Using the Configuration Wizard*.

8.4.2.5 Specifying the Domain Mode and JDK

Use the Domain Mode and JDK screen to specify the domain mode and Java Development Kit (JDK).

On the Domain Mode and JDK screen:

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

Tip:

For more information about this screen, see Domain Mode and JDK in *Creating WebLogic Domains Using the Configuration Wizard*.

8.4.2.6 Specifying the Database Configuration Type

Use the Database Configuration type screen to specify details about the database and database schema.

On the Database Configuration type screen, select **RCU Data**. This option instructs the Configuration Wizard to connect to the database and Service Table (STB) schema to automatically retrieve schema information for schemas needed to configure the domain.

Note:

If you select **Manual Configuration** on this screen, you must manually fill in parameters for your schema on the next screen.

After selecting **RCU Data**, fill in the following fields:

Field	Description
DBMS/Service	Enter the database DBMS name, or service name if you selected a service type driver. Example: <code>orcl.exampledomain.com</code>
Host Name	Enter the name of the server hosting the database. Example: <code>examplehost.exampledomain.com</code>
Port	Enter the port number on which the database listens. Example: <code>1521</code>
Schema Owner Schema Password	Enter the username and password for connecting to the database's Service Table schema. This is the schema username and password entered for the Service Table component on the Schema Passwords screen in the RCU (see Specifying Schema Passwords). The default username is <code>prefix_STB</code> , where <i>prefix</i> is the custom prefix that you defined in the RCU.

Click **Get RCU Configuration** when you finish specifying the database connection information. The following output in the Connection Result Log indicates that the operation succeeded:

```
Connecting to the database server...OK
Retrieving schema data from database server...OK
Binding local schema components with retrieved data...OK
```

Successfully Done.

Tip:

For more information about the schema installed when the RCU is run, see About the Service Table Schema in *Creating Schemas with the Repository Creation Utility*.

For more information about this screen, see Database Configuration Type in *Creating WebLogic Domains Using the Configuration Wizard*.

8.4.2.7 Specifying JDBC Component Schema Information

Use the JDBC Component Schema screen to verify or specify details about the database schemas.

Verify that the values populated on the JDBC Component Schema screen are correct for all schemas. If you selected **RCU Data** on the previous screen, the schema table should already be populated appropriately.

Tip:

For high availability environments, see the following sections in *High Availability Guide* for additional information on configuring data sources for Oracle RAC databases:

- Configuring Active GridLink Data Sources with Oracle RAC
- Configuring Multi Data Sources

For more information about this screen, see JDBC Component Schema in *Creating WebLogic Domains Using the Configuration Wizard*.

8.4.2.8 Testing the JDBC Connections

Use the JDBC Component Schema Test screen to test the data source connections.

A green check mark in the Status column indicates a successful test. If you encounter any issues, see the error message in the Connection Result Log section of the screen, fix the problem, then try to test the connection again.

By default, the schema password for each schema component is the password you specified while creating your schemas. If you want different passwords for different schema components, manually edit them in the previous screen (JDBC Component Schema) by entering the password you want in the **Schema Password** column, against each row. After specifying the passwords, select the check box corresponding to the schemas that you changed the password in and test the connection again.

Tip:

For more information about this screen, see JDBC Component Schema Test in *Creating WebLogic Domains Using the Configuration Wizard*.

8.4.2.9 Creating Credential Keys

Use the Credentials screen to create two keys.

On the Credentials screen:

1. A key for the Supervisor user already exists. Modify the credential as follows:
 - a. Specify SUPERVISOR (all CAPS) as the user name. This is the default name initially assigned to the SUPERVISOR account and cannot be changed unless you create a new SUPERVISOR account.
 - b. The password must be the same password specified on the Custom Variables screen in RCU during schema creation.
2. Create a second credential:
 - a. Click the plus sign (+) icon to add a new credential.
 - b. In the **Key Name** field, enter the name of this domain as the key.
 - c. In the **Username** and **Password** fields, provide the Administrator user's user name and password.
 - d. Select `oracle.odi.credmap` as the store name.

Note: If the repository is configured in external authentication mode, then the SUPERVISOR user name and password should be entered according to your external authentication settings.

Key Name	Username	Password	Store Name
SUPERVISOR	SUPERVISOR	••••••••	oracle.odi.credmap
exampledomain	weblogic	••••••••	oracle.odi.credmap ▼

Tip:

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

8.4.2.10 Selecting Advanced Configuration

Use the Advanced Configuration screen to complete the domain configuration.

On the Advanced Configuration screen, select:

- Administration Server
Required to properly configure the listen address of the Administration Server.
- Node Manager
Required to configure Node Manager.
- Topology
Required to configure the Oracle Data Integrator Managed Server.

Optionally, select other available options as required for your desired installation environment. The steps in this guide describe a standard installation topology, but you may choose to follow a different path. If your installation requirements extend to additional options outside the scope of this guide, you may be presented with additional screens to configure those options. For information about all Configuration Wizard screens, see Configuration Wizard Screens in *Creating WebLogic Domains Using the Configuration Wizard*.

8.4.2.11 Configuring the Administration Server Listen Address

Use the Administration Server screen to select the IP address of the host.

Select the drop-down list next to **Listen Address** and select the IP address of the host where the Administration Server will reside, or use the system name or DNS name that maps to a single IP address. Do *not* use All Local Addresses.

Do *not* specify any server groups for the Administration Server.

8.4.2.12 Configuring Node Manager

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

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

Tip:

For more information about this screen, see Node Manager in *Creating WebLogic Domains Using the Configuration Wizard*.

For more about Node Manager types, see Node Manager Overview in *Administering Node Manager for Oracle WebLogic Server*.

8.4.2.13 Configuring Managed Servers for Oracle Data Integrator

Use the Managed Servers screen to configure Managed Servers.

On the Managed Servers screen, a Managed Server named `ODI_server1` is automatically created by default.

To configure Managed Servers for Oracle Data Integrator:

1. In the Listen Address drop-down list, select the IP address of the host on which the Managed Server will reside. Do not use `All Local Addresses`.
2. In the Server Groups drop-down list, make sure that **JRF-MAN-SVR** is selected. This server group ensures that the Oracle JRF services are targeted to the Managed Servers you are creating.

Server groups target Fusion Middleware applications and services to one or more servers by mapping defined application service groups to each defined server group. A given application service group may be mapped to multiple server groups if needed. Any application services that are mapped to a given server group are automatically targeted to all servers that are assigned to that group. For more information, see Application Service Groups, Server Groups, and Application Service Mappings in *Domain Template Reference*.

These server names are referenced in examples throughout this document; if you choose different names be sure to replace them as needed.

Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Groups
ODI_server1	11.222.333.444	15101	☐	Disabled	JRF-MAN-SVR

Note:

You must make a note of the IP address and port number for the Managed Server. You will need this information when you configure the ODI agent.

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

Click **Add** and select **JRF-MAN-SVR** to create a second Managed Server named `ODI_server2`.

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

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

Tip:

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

8.4.2.14 Configuring a Cluster for Oracle Data Integrator

Use the Clusters screen to create a new cluster.

On the Clusters screen:

1. Click **Add**.
2. Specify `ODI_cluster1` in the Cluster Name field.
3. Leave the Cluster Address field blank.

By default, server instances in a cluster communicate with one another using unicast. If you want to change your cluster communications to use multicast, see Considerations for Choosing Unicast or Multicast in *Administering Clusters for Oracle WebLogic Server*.

You can also create clusters using Fusion Middleware Control. In this case, you can configure cluster communication (unicast or multicast) when you create the new cluster. For more information, see Create and configure clusters in *Oracle WebLogic Server Administration Console Online Help*.

Tip:

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

8.4.2.15 Defining Server Templates

If you are creating dynamic clusters for a high availability setup, use the Server Templates screen to define one or more server templates for domain.

To continue configuring the domain, click **Next**.

For steps to create a dynamic cluster for a high availability setup, see Using Dynamic Clusters in *High Availability Guide*.

8.4.2.16 Configuring Dynamic Servers

If you are creating dynamic clusters for a high availability setup, use the Dynamic Servers screen to configure the dynamic servers.

If you are *not* configuring a dynamic cluster, click **Next** to continue configuring the domain.

Note: When you create dynamic clusters, keep in mind that after you assign the **Machine Name Match Expression**, you do not need to create machines for your dynamic cluster.

For steps to create a dynamic cluster for a high availability setup, see Using Dynamic Clusters in *High Availability Guide*.

8.4.2.17 Assigning Oracle Data Integrator Managed Servers to the Cluster

Use the Assign Servers to Clusters screen to assign Managed Servers to a new *configured cluster*. A configured cluster is a cluster you configure manually. You do not use this screen if you are configuring a *dynamic cluster*, a cluster that contains one or more generated server instances that are based on a server template.

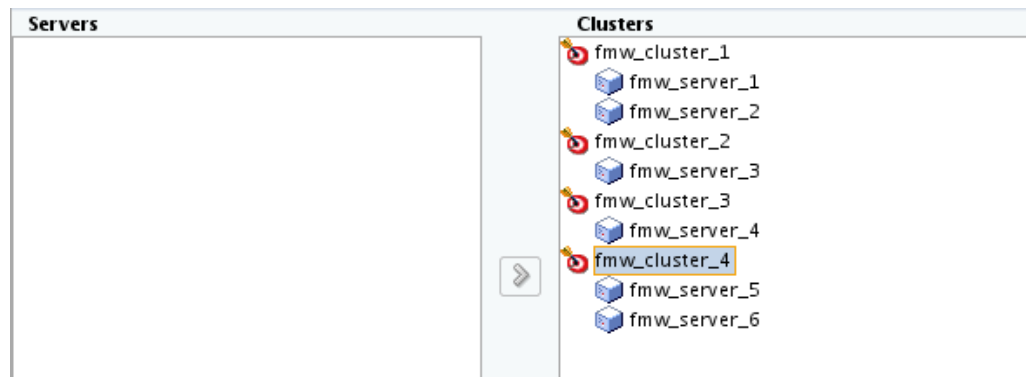
For more on configured cluster and dynamic cluster terms, see About Dynamic Clusters in *Understanding Oracle WebLogic Server*.

On the Assign Servers to Clusters screen:

1. In the Clusters pane, select the cluster to which you want to assign the Managed Servers; in this case, `ODI_cluster1`.
2. In the Servers pane, assign `ODI_server1` to `ODI_cluster1` by doing one of the following:
 - Click once on `ODI_server1` to select it, then click the right arrow to move it beneath the selected cluster (`ODI_cluster1`) in the Clusters pane.
 - Double-click on `ODI_server1` to move it beneath the selected cluster (`ODI_cluster1`) in the Clusters pane.
3. Repeat to assign `ODI_server2` to `ODI_cluster1`.

The following image shows a generic example of the Clusters pane after Managed Servers are assigned to clusters.

Figure 8-1 Managed Servers Assigned to Clusters



Tip:

For more information about this screen, see Assign Servers to Clusters in *Creating WebLogic Domains Using the Configuration Wizard*.

8.4.2.18 Configuring Coherence Clusters

Use the Coherence Clusters screen to configure the Coherence cluster.

Leave the default port number as the Coherence cluster listen port. After configuration, the Coherence cluster is automatically added to the domain.

Note:

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

See [Table 5-2](#) for more information and next steps for configuring Coherence.

Note:

For Coherence licensing information, see Oracle Coherence Products in *Licensing Information*.

8.4.2.19 Creating a New Oracle Data Integrator Machine

Use the Machines screen to create new machines in the domain. A machine is required so that Node Manager can start and stop servers.

Tip:

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

To create a new Oracle Data Integrator machine so that Node Manager can start and stop servers:

1. Select the Machine tab (for Windows) or the UNIX Machine tab (for UNIX), then click **Add** to create a new machine.
2. In the Name field, specify a machine name, such as `ODI_machine1`.
3. In the Node Manager Listen Address field, select the IP address of the machine in which the Managed Servers are being configured.

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

4. Verify the port in the Node Manager Listen Port field.
 5. Repeat these steps to add more machines, if required.
-

Note:

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

Tip:

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

8.4.2.20 Assigning Servers to Oracle Data Integrator Machines

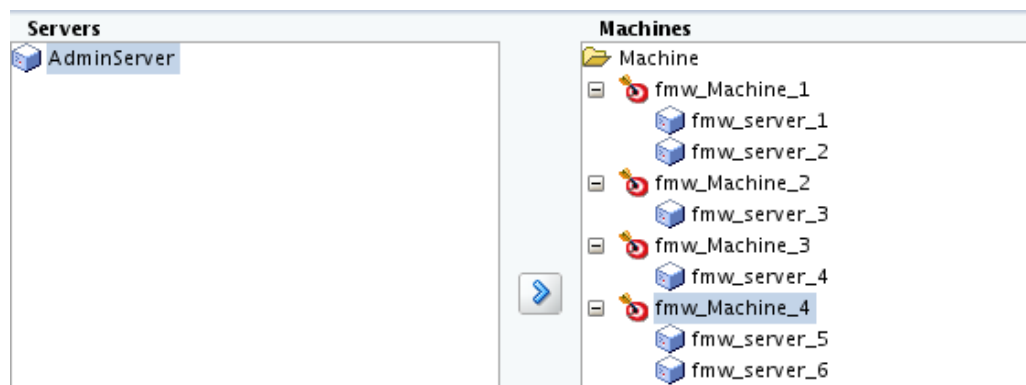
Use the Assign Servers to Machines screen to assign the Administration Server and Managed Servers to the new machine you just created.

On the Assign Servers to Machines screen:

1. In the Machines pane, select the machine to which you want to assign the servers; in this case, `ODI_machine1`.
2. In the Servers pane, assign AdminServer to `ODI_machine1` by doing one of the following:
 - Click once on AdminServer to select it, then click the right arrow to move it beneath the selected machine (`ODI_machine1`) in the Machines pane.
 - Double-click on AdminServer to move it beneath the selected machine (`ODI_machine1`) in the Machines pane.
3. Repeat these steps to assign all Managed Servers to their respective machines.

The following figure shows a generic example of the Machines pane after Managed Servers are assigned to machines.

Figure 8-2 Assign Managed Servers to Machines



Tip:

For more information about this screen, see Assign Servers to Machines in *Creating WebLogic Domains Using the Configuration Wizard*.

8.4.2.21 Virtual Targets

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

Tip: For more information about this screen, see Virtual Targets in *Creating WebLogic Domains Using the Configuration Wizard*.

8.4.2.22 Partitions

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

Tip: For more information about this screen, see Partitions in *Creating WebLogic Domains Using the Configuration Wizard*.

8.4.2.23 Reviewing Your Configuration Specifications and Configuring the Domain

The Configuration Summary screen shows detailed configuration information for the domain you are about to create.

Review each item on the screen and verify that the information is correct. To make any changes, go back to a screen by clicking the **Back** button or selecting the screen in the navigation pane. Domain creation does not start until you click **Create**.

Tip:

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

8.4.2.24 Writing Down Your Domain Home and Administration Server URL

The End of Configuration screen shows information about the domain you just configured.

Make a note of the following items because you need them later:

- Domain Location
- Administration Server URL

You need the domain location to access scripts that start Node Manager and Administration Server, and you need the URL to access the Administration Server.

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

8.5 Adding Libraries to a Java EE Agent

After configuring a Java EE agent, you can specify additional libraries if required.

To add libraries to a Java EE agent:

1. Set the environment variable `ODI_ADDITIONAL_CLASSPATH` to locate additional jars before starting the agent. For example:

```
ODI_ADDITIONAL_CLASSPATH=/share/libs/mytool.jar:/share/libs/
drivers/mydriver.jar
```

2. Do one the following:

- Copy the additional libraries to the `DOMAIN_HOME/lib` directory. The Java EE will automatically add these libraries to the agent's classpath.
- Follow the steps below to use the `generate_agent_wls_template.sh` script or ODI Studio to generate an agent template and then create/extend a WebLogic domain with that template.

To generate a template for a Java EE agent using the `generate_agent_wls_template.sh` script, specify domain and shared libraries with the `-domainLibraries` and `-sharedLibraries` arguments as illustrated in the following example:

```
./generate_agent_wls_template.sh
-agentName sample
-agentContextName context
```

```
-odiUser SUPERVISOR
-destinationJar /home/userName/NewFormaterJar.jar
-retryCount 10
-retryDelayMS 1
-createDataSourceForMasterRepository false
-masterDataSource jdbc/
odiMasterRepository,oracle.jdbc.OracleDriver,jdbc:oracle:thin:@mycompany.com-
isESSDependency false
-addToPath /home/userName
-domainLibraries /home/userName/odi/myDomain/userlib/myLib.jar
-sharedLibraries MessageBox
```

To generate a template for a Java EE agent and specify additional libraries for the agent using ODI Studio:

1. Start ODI Studio.
2. Select **Generate Server Template**, to start the Template Generation wizard.
3. In the **Agent Information** page, enter the agent information, such as the Java EE agent name, the datasource JNDI name, the connection retry count, and the Supervisor key.
4. In the **Libraries and Drivers** page, select the libraries you want to deploy with your Java EE agent from the list of external libraries. Note that library name validation is limited within the newly added libraries, not against already deployed shared libraries. You can select a domain library or a shared library. **Domain** libraries are the libraries deployed in the WebLogic domain and are available to a Java EE agent, since they are available to all applications running in the domain. Domain libraries are typically used when adding infrequently changed JAR files. Note that when using this approach, you must reboot all servers in the domain for the change to take effect. **Shared** libraries are libraries you specify in the agent deployment descriptor, before deploying the agent to the domain. With shared libraries, multiple applications can use the libraries resources and duplication is avoided. Shared libraries are used for libraries that may need modifications or upgrade. These libraries allow you to change libraries without restarting the server, but you may need to restart the application
5. Click **Next** to display the **Datasources** page.
6. In that page, select the datasource definitions that you want to include in the agent template. You can only select datasources using this wizard. To add datasources use the **Data Sources** tab.
7. Click **Next** to display the **Template Target and Summary** page.
8. In that page, specify where the template should be generated in the **Target Template Path** box.
9. Click **Finish** to close the wizard and generate the agent template.

8.6 Starting the Servers

After configuration is complete, start Node Manager, then the WebLogic Administration Server and Managed Servers.

Note:

For more information on additional tools you can use to manage your domain, see *Overview of Oracle Fusion Middleware Administration Tools in Administering Oracle Fusion Middleware*.

[Starting Node Manager](#)

[Starting the Administration Server](#)

[Starting the Managed Servers](#)

8.6.1 Starting Node Manager

To start the per-domain Node Manager:

1. Go to the `DOMAIN_HOME/bin` directory.
2. Enter the following command:
 - (UNIX) Using `nohup` and `nm.out` as an example output file:

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

where `LOG_DIR` is the location of directory in which you want to store the log files.

- (Windows) `startNodeManager.cmd`

Note:

On Windows operating systems, Oracle recommends that you configure Node Manager to run as a startup service. This allows Node Manager to start up automatically each time the system is restarted.

See *Running Node Manager as a Startup Service in Administering Node Manager for Oracle WebLogic Server*.

8.6.2 Starting the Administration Server

To start the Administration Server:

1. Go to the `DOMAIN_HOME/bin` directory.
2. Enter the following command:
 - (UNIX) `./startWebLogic.sh`
 - (Windows) `startWebLogic.cmd`

If you selected **Production Mode** on the Domain Mode and JDK screen when you created the domain, you see a prompt for the Administrator user login credentials as the Administrator Account screen provides.

Tip:

For more information about starting the Administration Server, see *Starting and Stopping Administration Server* in *Administering Oracle Fusion Middleware*.

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

You can verify that the Administration Server is up and running by accessing the Administration Server Console. The URL is provided on the End of Configuration screen (`http://
administration_server_host:administration_server_port/console`). The default Administration Server port number is 7001.

Note:

Make sure that the database hosting your product schemas is up and running and accessible by the Administration Server.

For more information about how to use the Administration Console, see *Getting Started Using Oracle WebLogic Server Administration Console* in *Administering Oracle Fusion Middleware*.

8.6.3 Starting the Managed Servers

To start the Managed Servers:

1. Log in to Oracle Fusion Middleware Control:

`http://administration_server_host:administration_server_port/em`

The Administration Server host and port number were in the URL on the End of Configuration screen ([Writing Down Your Domain Home and Administration Server URL](#)). The default Administration Server port number is 7001.

The login credentials were provided on the Administrator Account screen ([Configuring the Administrator Account](#)).

2. The Enterprise Manager landing page lists servers configured for this domain and shows their status (such as **Running** or **Shutdown**). For a newly configured domain, only the **AdminServer(admin)** will be running.
3. Select the first Managed Server.
4. Next to the **WebLogic Server** menu, select **Start Up**.
5. Repeat Steps 3 and 4 to start all Managed Servers.
6. On the main landing page, verify that all Managed Servers are up and running.

8.7 Verifying the Configuration

After completing all configuration steps, you can perform additional steps to verify that your domain is properly configured.

To verify that the domain is configured properly, see [Performing Additional Domain Configuration Tasks](#).

Next Steps After Configuring the Domain

After configuring a product domain, there are additional tasks that you may want to perform.

[Performing Basic Administrative Tasks](#)

Review the administrative tasks you will likely want to perform on a new domain.

[Performing Additional Domain Configuration Tasks](#)

Review additional configuration tasks you will likely want to perform on a new domain.

[Preparing Oracle Data Integrator for Development](#)

Review tasks you can perform to prepare Oracle Data Integrator for development.

[Preparing Your Environment for High Availability](#)

Scaling out for high availability requires additional steps.

9.1 Performing Basic Administrative Tasks

Review the administrative tasks you will likely want to perform on a new domain.

Table 9-1 Basic Administration Tasks for a New Domain

Task	Description	More Information
Getting familiar with Fusion Middleware administration tools	Get familiar with various tools that you can use to manage your environment.	See Overview of Oracle Fusion Middleware Administration Tools in <i>Administering Oracle Fusion Middleware</i> .
Starting and stopping products and servers	Learn how to start and stop Oracle Fusion Middleware, including the Administration Server, Managed Servers, and components.	See Starting and Stopping Oracle Fusion Middleware in <i>Administering Oracle Fusion Middleware</i> .
Configuring Secure Sockets Layer (SSL)	Learn how to set up secure communications between Oracle Fusion Middleware components using SSL.	See Configuring SSL in Oracle Fusion Middleware in <i>Administering Oracle Fusion Middleware</i> .
Monitoring Oracle Fusion Middleware	Learn how to keep track of the status of Oracle Fusion Middleware components.	See Monitoring Oracle Fusion Middleware in <i>Administering Oracle Fusion Middleware</i> .
Understanding Backup and Recovery Procedures	Learn recommended backup and recovery procedures for Oracle Fusion Middleware.	See Introduction to Backup and Recovery in <i>Administering Oracle Fusion Middleware</i> .

9.2 Performing Additional Domain Configuration Tasks

Review additional configuration tasks you will likely want to perform on a new domain.

Table 9-2 Additional Domain Configuration Tasks

Task	Description	More Information
Deploying Applications	Learn how to deploy your applications to Oracle Fusion Middleware.	See Deploying Applications in <i>Administering Oracle Fusion Middleware</i> .
Adding a Web Tier front-end to your domain	Oracle Web Tier hosts Web pages (static and dynamic), provides security and high performance along with built-in clustering, load balancing, and failover features. In particular, the Web Tier contains Oracle HTTP Server.	To install and configure Oracle HTTP Server in the WebLogic Server domain, see Configuring Oracle HTTP Server in a WebLogic Server Domain in <i>Installing and Configuring Oracle HTTP Server</i> . See also Installing Multiple Products in the Same Domain for important information.
Tuning and configuring Coherence for your topology	The standard installation topology includes a Coherence cluster that contains storage-enabled Managed Coherence Servers. This configuration is a good starting point for using Coherence, but depending upon your specific requirements, consider tuning and reconfiguring Coherence to improve performance in a production environment.	For more about Coherence clusters, see Configuring and Managing Coherence Clusters in <i>Administering Clusters for Oracle WebLogic Server</i> . For information on tuning Coherence, see Performance Tuning in <i>Administering Oracle Coherence</i> . For information on storing HTTP session data in Coherence, see Using Coherence*Web with WebLogic Server in <i>Administering HTTP Session Management with Oracle Coherence*Web</i> . For more about creating and deploying Coherence applications, see Getting Started in <i>Developing Oracle Coherence Applications for Oracle WebLogic Server</i> .

9.3 Preparing Oracle Data Integrator for Development

Review tasks you can perform to prepare Oracle Data Integrator for development.

[Table 9-3](#) lists tasks that prepare Oracle Data Integrator for development.

Table 9-3 Tasks for Preparing Oracle Data Integrator for Development

Task	Description	More Information
Creating a logical agent	Multiple physical agents having identical roles in different environments can be grouped under the same logical agent. A logical agent is related to physical agents through contexts. When starting an execution, you indicate the logical agent and the context. Oracle Data Integrator will translate this information into a single physical agent that will receive the execution request.	Creating a Logical Agent
Managing the agents	Once your agents are defined in the topology, you can start, deploy, and stop your agents as needed.	Managing Agents
Administer your repositories	Additional tasks are available to create and connect to new master and work repositories, changing passwords, and other administrative tasks to help you customize your environment.	Administering Repositories
Create a server template for your Java EE agent	Oracle Data Integrator provides a Server Template Generation wizard to help you create a server template for a run-time agent.	Creating a Server Template for the Java EE Agent
Include libraries in classpath	Libraries that enable usage of ODI SDK APIs.	Client Libraries for SDK APIs

9.4 Preparing Your Environment for High Availability

Scaling out for high availability requires additional steps.

[Table 9-4](#) provides a list of tasks to perform if you want to scale out your standard installation environment for high availability.

See Also:

For information about configuring your environment for high availability, see Roadmap for Setting Up a High Availability Topology in *Administering Oracle Data Integrator*.

Table 9-4 Tasks Required to Prepare Your Environment for High Availability

Task	Description	More Information
Scaling out to multiple host computers	To enable high availability, it is important to provide failover capabilities to another host computer. That way, if one computer goes down, your environment can continue to serve the consumers of your deployed applications.	See Scaling Out a Topology (Machine Scale Out) in the <i>High Availability Guide</i> .
Configuring high availability for your Web Tier components.	If you have added a Web tier front-end, then you must configure the Web Tier for high availability, as well as the WebLogic Server software.	See Configuring High Availability for Web Tier Components in <i>High Availability Guide</i> .
Setting up a front-end load balancer	A load balancer can be used to distribute requests across servers more evenly.	See Server Load Balancing in a High Availability Environment and Configuring Load Balancer Virtual Server Names and Ports in <i>High Availability Guide</i> .
Configuring Node Manager	Node Manager enables you to start, shut down, and restart the Administration Server and Managed Server instances from a remote location. This document assumes you have configured a per-domain Node Manager. Review the Node Manager documentation for information on advanced Node Manager configuration options and features.	See Advanced Node Manager Configuration in <i>Administering Node Manager for Oracle WebLogic Server</i> .

Deinstalling or Reinstalling Oracle Data Integrator

Follow the instructions in this section to deinstall or reinstall Oracle Data Integrator.

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

Stopping the Oracle Data Integrator Agents

Before running the deinstaller, stop all running agents.

Stopping Oracle Fusion Middleware

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

Removing Your Database Schemas

Before you remove the Oracle home, Oracle recommends that you run the Repository Creation Utility (RCU) to remove database schemas associated with this domain.

Deinstalling the Software

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

Removing the Oracle Home Directory Manually

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

Removing the Program Shortcuts on Windows Operating Systems

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

Removing the Domain and Application Data

After deinstalling the software, you must remove the domain and application data.

Removing Oracle Data Integrator Wallet Information

The ODI wallet holds encrypted data credentials that must be removed manually.

Reinstalling the Software

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

10.1 Stopping the Oracle Data Integrator Agents

Before running the deinstaller, stop all running agents.

To stop agents:

1. Go to the *DOMAIN_HOME/bin* directory.
2. Enter the following command:
 - (UNIX) `./stopComponent.sh OracleDIAgent1`
 - (Windows) `stopComponent.cmd OracleDIAgent1`

10.2 Stopping Oracle Fusion Middleware

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

For more information, see *Stopping an Oracle Fusion Middleware Environment in Administering Oracle Fusion Middleware*.

10.3 Removing Your Database Schemas

Before you remove the Oracle home, Oracle recommends that you run the Repository Creation Utility (RCU) to remove database schemas associated with this domain.

Each domain has its own set of schemas, uniquely identified by a custom prefix (see *About Custom Prefixes in Creating Schemas with the Repository Creation Utility*). This set of schemas cannot be shared with any other domain (see *Planning Your Schema Creation in Creating Schemas with the Repository Creation Utility*).

If there are multiple sets of schemas on your database, be sure to identify the schema prefix associated with the domain you are removing.

For schema removal steps, see *Dropping Schemas in Creating Schemas with the Repository Creation Utility*.

10.4 Deinstalling the Software

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

If you want to perform a silent (command-line) deinstallation, see *Running the Oracle Universal Installer for Silent Deinstallation in Installing Software with the Oracle Universal Installer*.

[Starting the Deinstallation Program](#)

[Selecting the Product to Deinstall](#)

[Navigating the Deinstallation Screens](#)

10.4.1 Starting the Deinstallation Program

To start the deinstaller:

- **On UNIX**

On the command line, enter the following commands:

```
cd $ORACLE_HOME/oui/bin
./deinstall.sh
```

- **On Windows**

Do one of the following:

- Use a file manager window to navigate to the *ORACLE_HOME\oui\bin* directory and double-click on *deinstall.cmd*.

- Open a command prompt and enter the following commands:

```
cd %ORACLE_HOME%\oui\bin
deinstall.cmd
```

- From the **Start** menu, select **All Programs**, then **Oracle**, then **OracleHome**, and then **Uninstall Oracle Software**.

10.4.2 Selecting the Product to Deinstall

Because multiple products exist in the Oracle home, ensure that you are deinstalling the correct product.

After you run the deinstaller, the Distribution to Uninstall screen opens. From the drop-down list, select **ODI 12.2.1.2.6** and click **Uninstall**. The deinstallation program shows the screens listed in [Navigating the Deinstallation Screens](#).

Note:

You can deinstall Oracle Fusion Middleware Infrastructure after you deinstall Oracle Data Integrator software by running the deinstallation wizard again. Before doing so, make sure there are no other products using the Infrastructure; those products will no longer function once the Infrastructure is removed. You will not encounter the Distribution to Uninstall screen if no other software depends on Oracle Fusion Middleware Infrastructure. For deinstallation instructions, see Deinstalling Oracle Fusion Middleware Infrastructure in *Installing and Configuring the Oracle Fusion Middleware Infrastructure*.

10.4.3 Navigating the Deinstallation Screens

The deinstaller shows a series of screens to confirm the deinstallation of the software.

If you need help on screen listed in [Table 10-1](#), click **Help** on the screen.

Table 10-1 *Deinstallation Screens and Descriptions*

Screen	Description
Welcome	Introduces you to the product deinstaller.

Table 10-1 (Cont.) Deinstallation Screens and Descriptions

Screen	Description
Deinstallation Summary	Shows the Oracle home directory and its contents that will be deinstalled. Verify that this is the correct directory. If you want to save these options to a response file, click Save Response File and enter the response file location and name. You can use response file later during a silent deinstallation. For more on silent or command line deinstallation, see Running the Oracle Universal Installer for Silent Deinstallation in <i>Installing Software with the Oracle Universal Installer</i>. Click Deinstall to begin removing the software.
Deinstallation Progress	Shows the deinstallation progress.
Deinstallation Complete	Appears when the deinstallation is complete. Review the information on this screen, then click Finish to dismiss the deinstaller.

10.5 Removing the Oracle Home Directory Manually

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

For example, if your Oracle home directory is `/home/Oracle/product/ ORACLE_HOME` on a UNIX operating system, enter the following commands:

```
cd /home/Oracle/product
rm -rf ORACLE_HOME
```

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

10.6 Removing the Program Shortcuts on Windows Operating Systems

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

To remove the program shortcuts on Windows:

1. Go to the `C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Oracle\ORACLE_HOME\Product` directory.
2. If you only have one product installed in your Oracle home, delete the `ORACLE_HOME` directory. If you have multiple products installed in your Oracle home, delete all products before deleting the `ORACLE_HOME` directory.

10.7 Removing the Domain and Application Data

After deinstalling the software, you must remove the domain and application data.

To remove the domain and application data:

1. Manually remove your Domain home directory. For example:

On a UNIX operating system, if your Domain home directory is `/home/Oracle/config/domains/odi_domain`, enter the following command:

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

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

2. Manually remove your Application home directory. For example:

On a UNIX operating system, if your Application home directory is `/home/Oracle/config/applications/odi_domain`, enter the following commands:

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

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

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

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

Save and exit the file when you are finished.

10.8 Removing Oracle Data Integrator Wallet Information

The ODI wallet holds encrypted data credentials that must be removed manually.

The deinstaller does not remove the ODI wallet, and it must be manually removed. Wallet information is stored in a directory inside the user's home directory as follows:

- (UNIX) `/home/exampleuser/.odi`
- (Windows) `C:\Users\exampleuser\AppData\Roaming\odi`

10.9 Reinstalling the Software

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

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

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

- Installing in an existing Oracle home that contains the same feature sets.

The installer warns you that the Oracle home you specified during installation already contains the same software you are trying to install.

Your options are:

- Select a different installation type. In this case, only the feature sets that do not exist in the Oracle home directory are installed.
- Select a different Oracle home directory.
- Installing in an existing, non-empty Oracle home.

For example, suppose that you chose to create your Domain home or Application home somewhere inside your existing Oracle home. This data is not removed during the deinstallation process, so if you try to reinstall into the same Oracle home, the installer does not allow it. Your options are:

1. Deinstall your software from the Oracle home (as this section describes) and then remove the Oracle home directory. After you deinstall the software and remove the Oracle home directory, you can reinstall and reuse the same Oracle home location. Any domain or application data that was in the Oracle home must be re-created.
2. Select a different Oracle home directory.

Oracle Data Integrator Components

The Oracle Data Integrator (ODI) distribution includes several products and feature sets.

The ODI distribution contains the products and feature sets described in [Table A-1](#). Unless otherwise noted, all products and feature sets are available with both the **Standalone Installation** and the **Enterprise Installation** types.

Table A-1 Oracle Data Integrator Components and Features

Product	Feature Set	Description
Oracle Data Integrator features	ODI SDK	The ODI Software Development Kit (SDK) is a Java API for performing run-time and design-time operations.
	ODI Studio	Oracle Data Integrator Studio is used for administering the infrastructure (security and topology), reverse-engineering the metadata, developing projects, scheduling, operating and monitoring executions.
	ODI Standalone Agent	The standalone agent runs as its own process and is deployed in a domain as a system component. It can be configured in a standalone domain and managed by WebLogic Management Framework, or it can be colocated in a WebLogic domain and managed by Fusion Middleware Control.
	ODI J2EE	This is the Java EE agent, which is a Java EE application that is deployed and runs on a Managed Server configured in a WebLogic domain. This feature set is only available with the Enterprise Installation type.
	ODI Standalone Agent Template	This template provides the domain files required when your Oracle Data Integrator installation is not being managed by Oracle WebLogic Server. This feature set is only available with the Standalone Installation type.
	ODI Console	Oracle Data Integrator Console is a web-based console available for different types of users.
Internal Features	Apache Ant	This is a software tool used for automating build processes.
	FMW Upgrade	This is the upgrade assistant that can be used to upgrade your 11g Oracle Data Integrator software to 12c. For more information, see <i>Upgrading Oracle Data Integrator from 11g in Upgrading Oracle Data Integrator</i> .
	OPatch	The OPatch utility is a tool that allows the application and rollback of interim patches to Oracle products.

Table A-1 (Cont.) Oracle Data Integrator Components and Features

Product	Feature Set	Description
	Repository Creation Utility	The Repository Creation Utility (RCU) is used for creating database schemas. This feature set is included with the Standalone Installation type. The Enterprise Installation type does not include RCU since Oracle Fusion Middleware Infrastructure is a requirement and RCU is included with the Oracle Fusion Middleware Infrastructure distribution.

Troubleshooting Oracle Data Integrator

Learn techniques for troubleshooting issues with Oracle Data Integrator (ODI).

General Troubleshooting Tips

Troubleshoot most common issues with Oracle Data Integrator installation.

Troubleshooting Using Installation and Configuration Log Files

Use the installation and configuration log files to troubleshoot Oracle Data Integrator issues.

Verifying ODI Client and Repository Compatibility

Troubleshoot potential compatibility issues between Oracle Data Integrator (ODI) and Repository versions.

Need More Help?

Access additional help through My Oracle Support.

B.1 General Troubleshooting Tips

Troubleshoot most common issues with Oracle Data Integrator installation.

If you encounter an error during installation:

- Read the *Oracle Fusion Middleware Release Notes* for the latest updates. The most current version of the release notes is available on the Oracle Technology Network (OTN) at:

<http://www.oracle.com/technetwork/documentation/index.html#middleware>

- Verify your system and configuration is certified. Refer to the *System Requirements and Supported Platforms for Oracle Fusion Middleware* document on the Oracle Fusion Middleware Supported System Configurations page:

<http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html>

- Verify your system meets the minimum system requirements. Refer to the *System Requirements and Specifications* document:

<http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-requirements-100147.html>

- If you entered incorrect information on one of the installation screens, return to that screen by clicking **Back** until you see the screen.
- If an error occurred while the installer is copying or linking files:
 1. Note the error and review the installation log files.

2. Remove the failed installation by following the steps in [Deinstalling or Reinstalling Oracle Data Integrator](#).
3. Correct the issue that caused the error.
4. Restart the installation.

B.2 Troubleshooting Using Installation and Configuration Log Files

Use the installation and configuration log files to troubleshoot Oracle Data Integrator issues.

The installation and configuration log files contain useful information to help troubleshoot any issues you may encounter. For more information about these log files and their contents, see *Configuring Installation and Configuration Log Files* in *Installing Software with the Oracle Universal Installer*.

B.3 Verifying ODI Client and Repository Compatibility

Troubleshoot potential compatibility issues between Oracle Data Integrator (ODI) and Repository versions.

If you are using Oracle Data Integrator with other Oracle Fusion Middleware products, make sure you have read *Oracle Data Integration Interoperability with Other Fusion Middleware Products* in *Understanding Interoperability and Compatibility*.

Oracle strongly recommends that you use identical versions of different ODI components such as ODI Studio, ODI Console, standalone and J2EE Agents, and executable scripts for a specific site or platform. In addition, you should make sure your Master and Work Repository versions are compatible with these components ([Table B-1](#)).

Table B-1 ODI and Repository Compatible Versions

ODI Version	Repository Version
12c (12.2.1.2.0)	05.01.02.02
12c (12.2.1.1.0)	05.01.02.02
12c (12.1.2)	05.01.01.16
11g Release 1 (11.1.1.7.0)	04.03.04.02
11g Release 1 (11.1.1.6.0)	04.03.04.02

B.4 Need More Help?

Access additional help through My Oracle Support.

If this appendix does not solve the problem you encountered, try looking for a solution on My Oracle Support (formerly *OracleMetaLink*):

<https://support.oracle.com/>

If you are unable to find a solution for your problem, open a service request.

Secondary Topologies for Oracle Data Integrator

This appendix describes secondary (alternate) topologies for Oracle Data Integrator.

[Oracle Data Integrator Topology with the Oracle Data Integrator Console](#)

Oracle Data Integrator (ODI) Console is a web-based console that administrators and developers can use to configure the ODI topology and browse development artifacts.

[Using the Oracle Data Integrator Console](#)

The Oracle Data Integrator (ODI) Console is available for selection in the Configuration Wizard.

C.1 Oracle Data Integrator Topology with the Oracle Data Integrator Console

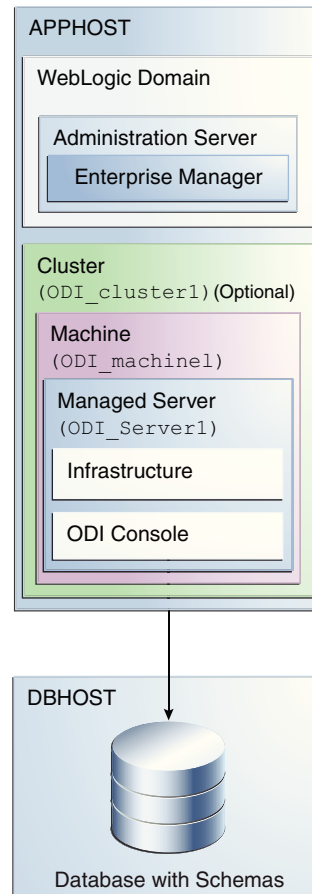
Oracle Data Integrator (ODI) Console is a web-based console that administrators and developers can use to configure the ODI topology and browse development artifacts.

ODI Console is a web-based console available to:

- Administrators use Oracle Data Integrator Console to create and import repositories and to configure the topology.
- Business users and developers to browse development artifacts in this interface, using, for example, the Data Lineage and Flow Map features.

This ODI Console integrates with Oracle Fusion Middleware Control Console and allows Fusion Middleware administrators to drill down into the details of Oracle Data Integrator components and sessions.

[Figure C-1](#) illustrates an Oracle Data Integrator topology including the ODI Console.

Figure C-1 Secondary Installation Topology including the ODI Console

C.2 Using the Oracle Data Integrator Console

The Oracle Data Integrator (ODI) Console is available for selection in the Configuration Wizard.

To access the ODI Console, select **Oracle Data Integrator - Console - 12.2.1.2.6[odi]** in the Configuration Wizard **Templates** screen.

To use the ODI Console, follow the instructions in Using Oracle Data Integrator Console in *Administering Oracle Data Integrator*.