

Oracle® Fusion Middleware

Installing and Configuring Oracle B2B and SOA Suite for Healthcare Integration



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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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Oracle Fusion Middleware Installing and Configuring Oracle B2B and SOA Suite for Healthcare Integration, 12c (12.2.1.3.0)

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Preface

This document describes how to install and configure Oracle B2B and SOA Suite for Healthcare Integration.

- [Audience](#)
- [Documentation Accessibility](#)
- [Related Documents](#)
- [Conventions](#)
Learn about the conventions used in this document.

Audience

This guide is intended for system administrators or application developers who are installing and configuring Oracle B2B and SOA Suite for Healthcare Integration. It is assumed that readers are familiar with web technologies and have a general understanding of Windows and UNIX platforms.

Documentation Accessibility

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

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Related Documents

Refer to the Oracle Fusion Middleware Library for additional information.

- For B2B information, see Oracle B2B Documentation.
- For Healthcare information, see Oracle SOA for Healthcare 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

Learn about the conventions used in this document.

This document uses the following text conventions:

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.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1

About the Oracle B2B and SOA Suite for Healthcare Integration Installation

The standard installation for Oracle B2B and SOA Suite for Healthcare Integration described in this guide creates the standard topology, which represents a sample starting topology for this product.

- [About Oracle B2B and SOA Suite for Healthcare Integration](#)
Oracle B2B and SOA Suite for Healthcare Integration are two separate SOA-compatible products that enable document and data exchange.
- [About the Configuration Options for Oracle B2B and SOA Suite for Healthcare Integration](#)
In a regular Oracle SOA Quick Start installation, users can only exchange Custom Documents, which is a limited function of Oracle B2B. If this function fulfills your business needs, you do not need to install Oracle B2B.
- [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 Secondary Topologies](#)
Secondary topologies include configurations with components that require additional installation or configuration steps on top of the standard topology.
- [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.

About Oracle B2B and SOA Suite for Healthcare Integration

Oracle B2B and SOA Suite for Healthcare Integration are two separate SOA-compatible products that enable document and data exchange.

Oracle B2B is an e-commerce gateway that enables the secure and reliable exchange of business documents between an enterprise and its trading partners. See *Protocols Supported in B2B* in *User's Guide for Oracle B2B* for a list of the industry-standard e-commerce protocols supported in Oracle B2B.

Oracle B2B and SOA Suite for Healthcare Integration use several features of Oracle SOA Suite to help you design, create, and manage applications that process healthcare data. This software consists of the Healthcare Integration, JDeveloper adapter, and the Oracle SOA Suite for Healthcare Integration user interface, which provides a customized, web-based console for designing, monitoring, and managing HL7 documents.

Oracle B2B and SOA Suite for Healthcare Integration use the same installer, but users can choose to install and configure the products separately or in combination, depending on their needs. The configuration options for these products are explained

further in [About the Configuration Options for Oracle B2B and SOA Suite for Healthcare Integration](#).

 **Note:**

You must install B2B from the B2B installation in order for any B2B functionality to operate. After a SOA installation, the B2B UI will be active but you must still install B2B separately if you want to use any B2B functionality (composite, B2B UI, or B2B runtime engine).

About the Configuration Options for Oracle B2B and SOA Suite for Healthcare Integration

In a regular Oracle SOA Quick Start installation, users can only exchange Custom Documents, which is a limited function of Oracle B2B. If this function fulfills your business needs, you do not need to install Oracle B2B.

See [Activating a Limited Oracle B2B Interface without a Full Installation in *Installing Oracle SOA Suite and Business Process Management Suite Quick Start for Developers*](#).

For more functionality to exchange business documents between enterprise and business partners not involved in healthcare, you should install the full Oracle B2B.

 **Note:**

You must install B2B from the B2B installation in order for any B2B functionality to operate. After a SOA installation, the B2B UI will be active but you must still install B2B separately if you want to use any B2B functionality (composite, B2B UI, or B2B runtime engine).

Businesses in healthcare can take advantage of Oracle SOA Suite for Healthcare Integration software to exchange sensitive medical data. Healthcare users have two configuration options:

- X12 HIPAA users should install the full Oracle B2B installation configured with Healthcare Integration.
- Healthcare providers using HL7 documents should install the full Oracle SOA Suite for Healthcare Integration software.

This install guide explains how to configure Oracle B2B and Healthcare in the following ways:

- **Oracle B2B in a WebLogic Domain**

This option is for non-healthcare businesses. You select the B2B Install type and then select the B2B template while configuring to create a standard WebLogic domain.

- **Healthcare in a WebLogic Domain**

This option is for healthcare business using HL7 documents. You select the Healthcare Install type and then select the Healthcare template while configuring to create a standard WebLogic domain for Healthcare.

- **HIPAA Compliant Healthcare**

This option is for X12 HIPAA users. You select the B2B Install type during installation. During configuration, you select both Healthcare and B2B templates while configuring. After configuring the domain, you can still use the B2B user interface to exchange HIPAA (healthcare) documents. You can use this configuration option if you want to configure just B2B, but still take advantage of Healthcare without configuring the Healthcare libraries.

About the Oracle SOA Suite for Healthcare Integration Interface

The Oracle B2B user interface is the default when you finish installing Oracle SOA Suite for Healthcare Integration into your Oracle home. If you want to use the Oracle SOA Suite for Healthcare Integration user interface, you must complete both of the following tasks post-installation and during configuration:

1. Use the RCU to set a custom variable before running the domain configuration wizard.
2. Select an Oracle SOA Suite for Healthcare Integration-specific template during domain configuration.

The Oracle SOA Suite for Healthcare Integration user interface will not function properly if you do not do both tasks. These configurations are detailed further in [About the Healthcare Integration Custom Variable](#).

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 B2B and SOA Suite for Healthcare Integration. If 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 that this product supports. See [About the Standard Installation Topology](#) in *Planning an Installation of Oracle Fusion Middleware*.

- [About the Oracle B2B Standard Installation Topology](#)
This topology represents a standard WebLogic Server domain that contains an Administration Server and one or more clusters containing one or more Managed Servers.
- [About the Oracle SOA Suite for Healthcare Integration Standard Installation Topology](#)
This topology represents a standard WebLogic Server domain that contains an Administration Server and a cluster containing one Managed Server.
- [About Elements in the Standard Installation Topology Illustration](#)
The standard installation topology typically includes common elements.

About the Oracle B2B Standard Installation Topology

This topology represents a standard WebLogic Server domain that contains an Administration Server and one or more clusters containing one or more Managed Servers.

The following figure shows the standard installation topology for Oracle B2B.

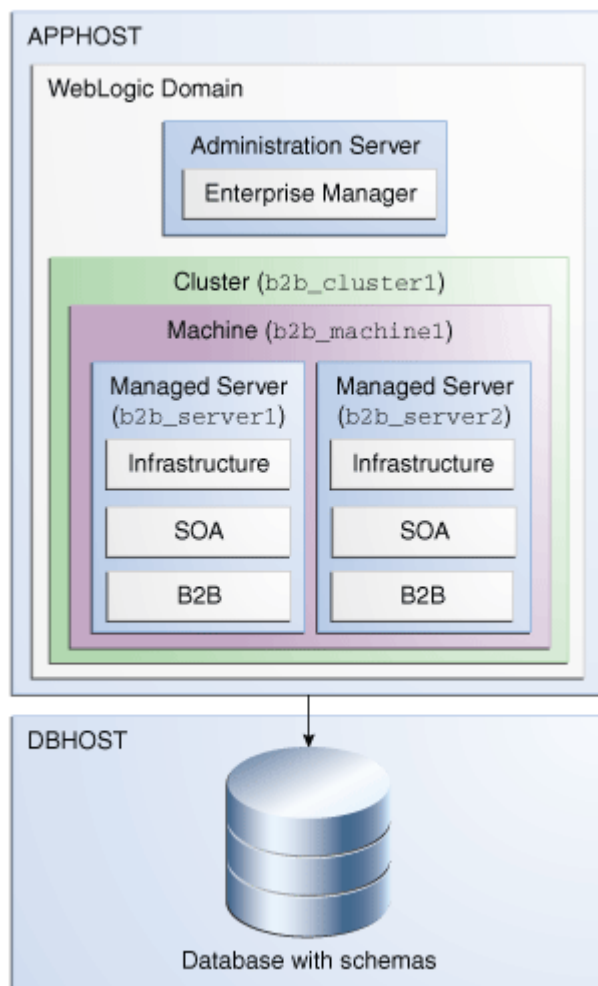


Note:

All Managed Servers of a component type in the domain must belong to that cluster. For example, Oracle B2B domains support only a single Oracle B2B cluster inside each domain.

See [Table 1-1](#) for information on elements of this topology.

Figure 1-1 Standard Topology for Oracle B2B



For configuration instructions, see [Configuring Oracle B2B Domain](#).

About the Oracle SOA Suite for Healthcare Integration Standard Installation Topology

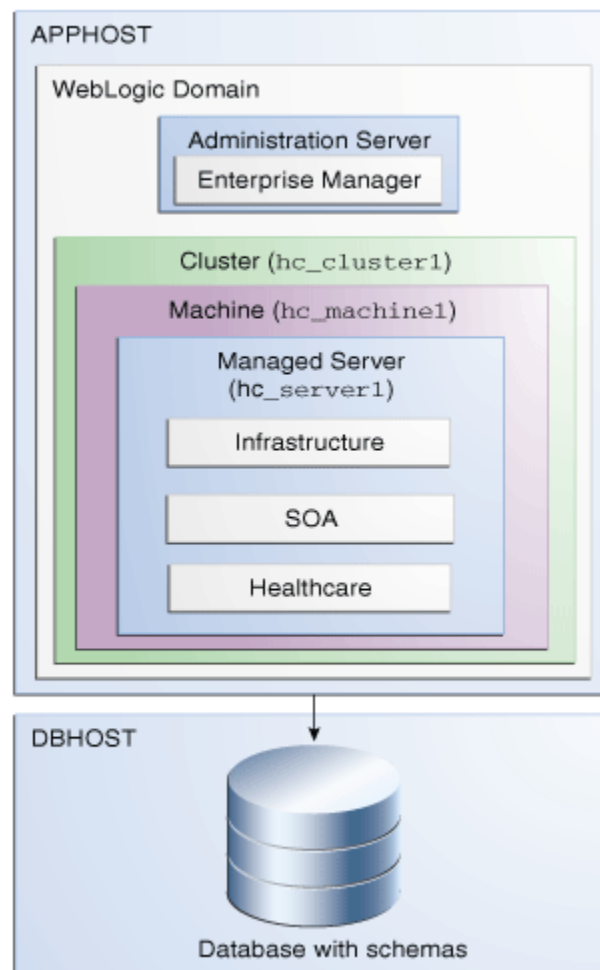
This topology represents a standard WebLogic Server domain that contains an Administration Server and a cluster containing one Managed Server.

The following figure shows the standard installation topology for Oracle SOA Suite for Healthcare Integration.

 **Note:**

All Managed Servers of a component type in the domain must belong to that cluster. For example, Oracle SOA Suite for Healthcare Integration domains support only a single Healthcare cluster inside each domain.

Figure 1-2 Standard Installation Topology for Oracle SOA Suite for Healthcare Integration



For configuration instructions, see [Configuring the Oracle SOA Suite for Healthcare Integration Domain](#).

About Elements in the Standard Installation Topology Illustration

The standard installation topology typically includes common elements.

The following table describes all elements of the topology illustration:

Table 1-1 Description of Elements in Standard Installation Topologies

Element	Description and Links to Related Documentation
APPHOST	A standard term used in Oracle documentation to refer to the machine that hosts the application tier.
DBHOST	A standard term used in Oracle documentation to refer to the machine that hosts the database.
WebLogic Domain	A logically related group of Java components (in this case, the Administration Server, Managed Servers, and other related software components). See <i>What Is an Oracle WebLogic Server Domain?</i> in <i>Understanding Oracle Fusion Middleware</i> .
Administration Server	Central control entity of a WebLogic domain. It maintains configuration objects for that domain and distributes configuration changes to Managed Servers. See <i>What Is the Administration Server?</i> in <i>Understanding Oracle Fusion Middleware</i> .
Enterprise Manager	The Oracle Enterprise Manager Fusion Middleware Control is a primary tool used to manage a domain. See <i>Oracle Enterprise Manager Fusion Middleware Control</i> in <i>Understanding Oracle Fusion Middleware</i> .
Cluster	A collection of multiple WebLogic Server instances running simultaneously and working together. See <i>Overview of Managed Servers and Managed Server Clusters</i> in <i>Understanding Oracle Fusion Middleware</i> .
Machine	A logical representation of the computer that hosts one or more WebLogic Server instances (servers). Machines are also the logical glue between the Managed Servers and the Node Manager. In order to start or stop the Managed Servers using the Node Manager, associate the Managed Servers with a machine.
Managed Server	A host for your applications, application components, web services, and their associated resources. See <i>Overview of Managed Servers and Managed Server Clusters</i> in <i>Understanding Oracle Fusion Middleware</i> .
Infrastructure	A collection of services that include the following: <ul style="list-style-type: none"> • Metadata repository (MDS) contains the metadata for Oracle Fusion Middleware components, such as the Oracle Application Developer Framework. See <i>What Is the Metadata Repository?</i> in <i>Understanding Oracle Fusion Middleware</i>. • Oracle Application Developer Framework (Oracle ADF). • Oracle Web Services Manager (OWSM).

About Secondary Topologies

Secondary topologies include configurations with components that require additional installation or configuration steps on top of the standard topology.

The main sections of this guide describe how to install and configure a standard installation topology. The secondary topologies contain several products that are not identified or included in the standard installation topologies.

For guidelines to install and configure secondary topologies, see [Secondary Topologies for Oracle B2B](#).

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 B2B and SOA Suite for Healthcare Integration, see [Installing Multiple Products in the Same Domain](#).

2

Preparing to Install and Configure Oracle B2B and SOA Suite for Healthcare Integration

To prepare for your Oracle B2B and SOA Suite for Healthcare Integration 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 the steps required to install and configure a standard Oracle B2B and SOA Suite for Healthcare Integration 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 B2B and SOA Suite for Healthcare Integration 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 B2B and SOA Suite for Healthcare Integration distribution on the Oracle Technology Network (OTN).

Roadmap for Installing and Configuring a Standard Installation Topology

This roadmap provides the steps required to install and configure a standard Oracle B2B and SOA Suite for Healthcare Integration installation topology.

[Table 2-1](#) provides the high-level steps required for installing a standard installation topology.

Table 2-1 Standard Installation Roadmap

Task	Description	Documentation
Verify your system environment.	Before you begin 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 are required before the installation.	Review the Oracle Fusion Middleware Infrastructure release notes to see if there are any mandatory patches required for the software products that you are installing.	See Install and Configure in <i>Release Notes for Oracle Fusion Middleware Infrastructure</i> .

Table 2-1 (Cont.) Standard Installation Roadmap

Task	Description	Documentation
Obtain the appropriate distributions.	Both B2B and Healthcare require an existing Oracle Fusion Middleware Infrastructure installation and Oracle SOA Suite; B2B and Healthcare must be installed in the same Oracle home as Oracle Fusion Middleware Infrastructure and Oracle SOA Suite. You have a separate distribution for B2B and Healthcare, called <code>fmw_12.2.1.3.0_b2bhealthcare_generic.jar</code> .	See About Product Distributions .
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.	Install Oracle Fusion Middleware Infrastructure to create the Oracle home directory. Then install Oracle SOA Suite into the same Oracle home.	See Installing the Infrastructure Software in <i>Installing and Configuring the Oracle Fusion Middleware Infrastructure</i> .
Install the software.	Run the Oracle Universal Installer to install Oracle B2B and SOA Suite for Healthcare Integration. Installing the software transfers the software to your system and creates the Oracle home directory.	See Installing the Oracle B2B and SOA Suite for Healthcare Integration Software .
Select a database profile and review any required custom variables.	Before you install the required schemas in the database, review the information about any custom variables you need to set for the Oracle B2B and SOA Suite for Healthcare Integration schemas.	See About Database Requirements for an Oracle Fusion Middleware Installation .
Create the schemas.	Run the Repository Creation Utility to create the schemas required for configuration.	See Creating the Database Schemas .
Create a WebLogic domain.	Use the Configuration Wizard/Assistant to create and configure the WebLogic domain.	See Configuring the Domain for creating the standard topology for Oracle B2B and Healthcare.
Administer and prepare your domain for high availability.	Discover additional tools and resources to administer your domain and configure your domain to be highly available.	See Next Steps After Configuring the Domain .

Roadmap for Verifying Your System Environment

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

Table 2-2 identifies important tasks and checks to perform to ensure that your environment is prepared to install and configure Oracle B2B and SOA Suite for Healthcare Integration.

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 configured for installation and configuration.	See Verifying Certification, System, and Interoperability Requirements .
Identify a proper installation user.	Verify that the installation user has the required 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 to install and configure the software, according to the recommended directory structure.	See Understanding 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 configured for the schemas required by Oracle B2B and SOA Suite for Healthcare Integration.	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 installs and configures your system must have the required permissions and privileges.
- [Understanding 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 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.

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 that your environment meets certification requirements:

Make sure that you install your product on a supported hardware and software configuration. 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 are released, they are added to the 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 requirements. 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:

To learn how to install and run multiple Fusion Middleware products from the same release or mixed releases with each other, see Oracle Fusion Middleware 12c Interoperability and Compatibility in *Understanding Interoperability and Compatibility*.

Selecting an Installation User

The user who installs and configures your system must have the required permissions and privileges.

- [About User Permissions](#)
The user who installs a Fusion Middleware product owns the files and has certain permissions on the files.
- [Understanding 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 that the Installation User has Administrator Privileges on Windows Operating Systems](#)
To update the Windows Registry, you must have administrator privileges.

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 directory 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. This user has 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.

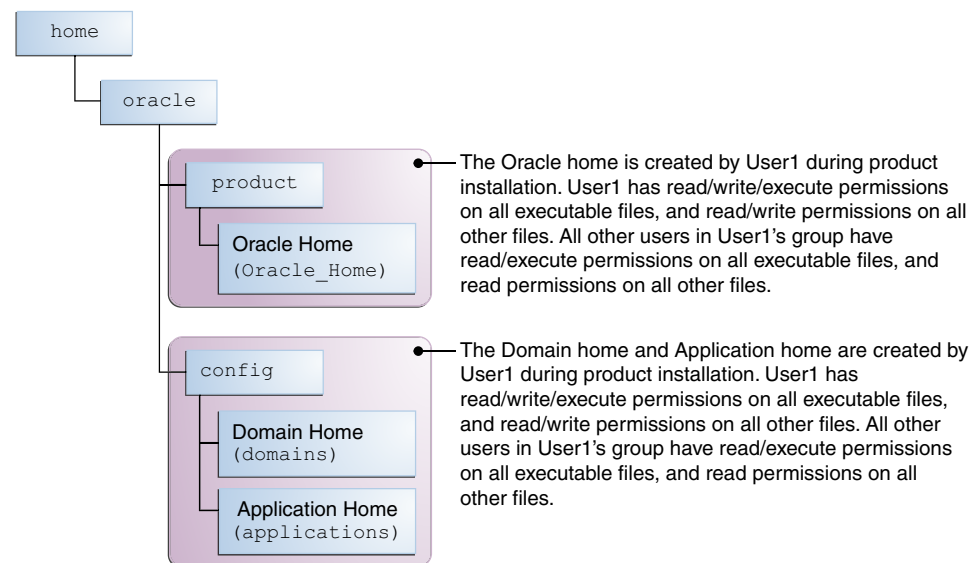
Consider the following examples:

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

This example explains the file permissions where the same user installs the software and configures the domain.

To ensure 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 by using the Configuration Wizard.

Figure 2-1 Directory Structure when a Single User Installs the Software and Configures the Domain

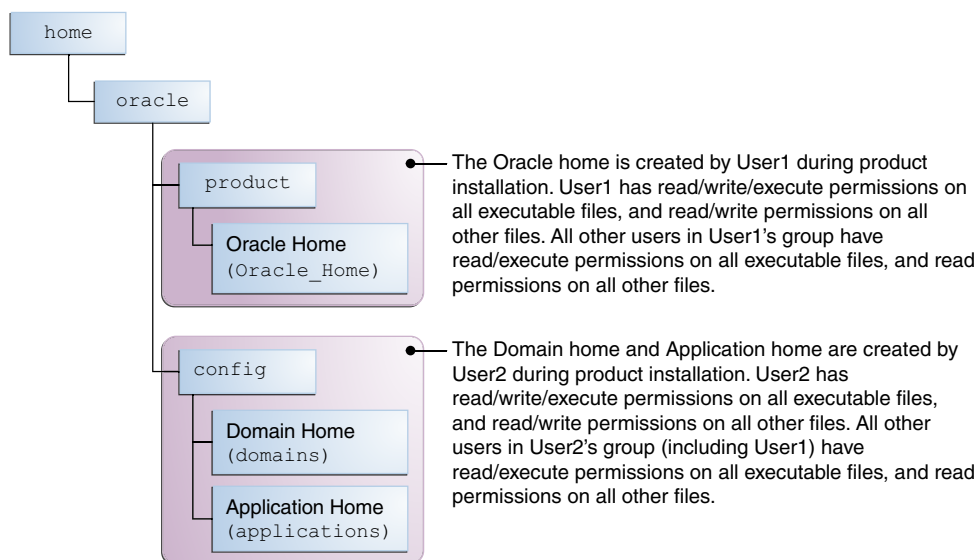


If the user who creates the domain is different than the user who installed the software, then both users must have the same privileges, as shown in the next example.

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

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

Figure 2-2 Directory Structure when Different Users Install the Software and Configure the Domain



 **Note:**

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

Consider the following points before you run 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 the 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 a `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](#).

Understanding 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.

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

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

By default, users 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 icon, either from the Start menu or the Windows icon in the lower-left 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 are 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
```

Understanding 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.

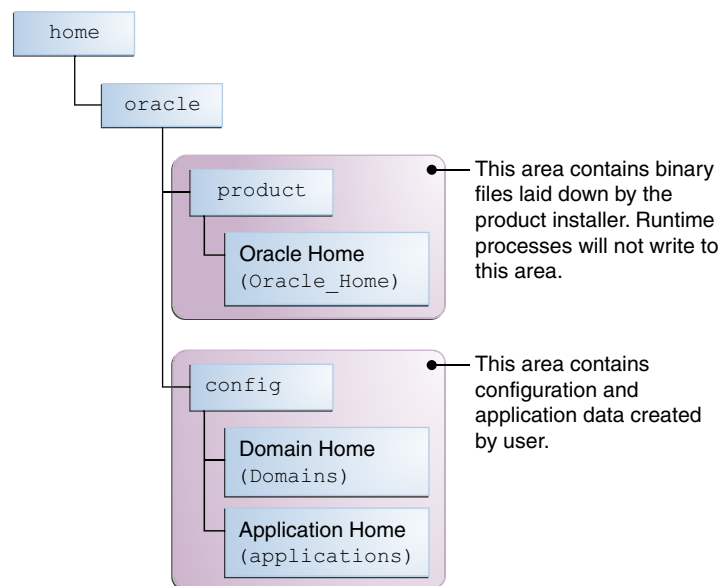
- [About the Recommended Directory Structure](#)
Oracle recommends specific locations for the Oracle Home, Domain Home, and Application Home.
- [About the Oracle Home Directory](#)
When you install any Oracle Fusion Middleware product, you must use an Oracle home directory.
- [About the Domain Home Directory](#)
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 to install and configure multiple products in one domain. This is also known as *extending* a domain.
- [Preparing for Shared Storage](#)
Oracle Fusion Middleware allows you to configure multiple 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.

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 2-3](#).

Figure 2-3 Recommended Oracle Fusion Middleware Directory Structure



A base location (Oracle base) should be established on your system (for example, /home/oracle). From this base location, create two separate branches, namely, the `product` directory and the `config` directory. The `product` directory should contain the

product binary files and all the Oracle home directories. The `config` directory should contain your domain and application data.

Oracle recommends that you do not keep your configuration data in the Oracle home directory; if you upgrade your product to another major release, are required to create a new Oracle home for binaries. You must also make sure that your configuration data exists in a location where 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 the examples throughout the documentation; be sure to replace these directories with the actual directories on your system.

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 ensure 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 you create the Oracle home directory and install Fusion Middleware products:

- Do not include spaces in the name of your Oracle home directory; the installer displays 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 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 (12.2.1.3.0) Interoperability and Compatibility in *Understanding Interoperability and Compatibility* .



Note:

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

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 on 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`.

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 that you locate 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 on 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`.

Installing Multiple Products in the Same Domain

There are two methods to install and configure multiple products in one domain. This is 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 add the new product.

See Starting and Stopping Oracle Fusion Middleware in *Administering Oracle Fusion Middleware*.

2. Follow the 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 you create the schemas, configure the domain by using 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:**

- To update WebLogic domains, see 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, see Oracle Fusion Middleware 12c (12.2.1.3.0) Interoperability and Compatibility in *Understanding Interoperability and Compatibility*.

Preparing for Shared Storage

Oracle Fusion Middleware allows you to configure multiple 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.

For configuration requirements specific to Managed File Transfer, see High Availability Properties in *Using Oracle Managed File Transfer*.

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 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 may encounter problems when you try to perform tasks in the future. Oracle Universal Installer validates that the Oracle home directory is empty; the install does not progress until you specify an empty directory. Oracle recommends that you locate your JDK installation in the `/home/oracle/products/jdk` directory.

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 (12.2.1.3.0), the certified JDK is 1.8.0_131 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>

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 that 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. See About the Repository Creation Utility in *Creating Schemas with the Repository Creation Utility*.

- [About the Custom Variables Required for the SOA Suite Schemas](#)
When you install the Oracle SOA Suite schemas, you are prompted to set two custom variables, which affect the way in which these schemas are created in the database.

About the Custom Variables Required for the SOA Suite Schemas

When you install the Oracle SOA Suite schemas, you are prompted to set two custom variables, which affect the way in which these schemas are created in the database.

These variables are explained further in the following sections:

- [About the Database Profile Custom Variable](#)
The Database Profile custom variable on the Repository Creation Utility (RCU) Custom Variables screen allows you to identify the predicted size or profile of the database on which you are installing the SOA Infrastructure schema.
- [About the Healthcare Integration Custom Variable](#)
The Healthcare Integration custom variable helps to activate the Oracle SOA Suite for healthcare integration user interface. The interface is not supported for Oracle SOA Suite for healthcare integration.

About the Database Profile Custom Variable

The Database Profile custom variable on the Repository Creation Utility (RCU) Custom Variables screen allows you to identify the predicted size or profile of the database on which you are installing the SOA Infrastructure schema.

To estimate the size of the database required for your Oracle SOA Suite configuration, consider the information in *Developing a Database Growth Management Strategy in Administering Oracle SOA Suite and Oracle Business Process Management Suite*.

If you enter **SMALL** or **MEDIUM** as the database profile, the RCU performs no special actions when the schema is created. The **SMALL** and **MEDIUM** options should be entered for informational purposes only.

If you enter **LARGE** as the database profile, the RCU creates the SOA Infrastructure schema using an Oracle database feature called Interval Partitioning. Interval partitioning improves the efficiency of the database when large numbers of composite applications must be processed. When you select the **LARGE** database profile, the RCU creates the interval partitioned tables in a manner supported by the Oracle SOA Suite purging scripts and guidelines.

For more information about database partitioning, see the following sections of the *Oracle Database VLDB and Partitioning Guide*:

- Partitioning Concepts
- Interval Partitioning

About the Healthcare Integration Custom Variable

The Healthcare Integration custom variable helps to activate the Oracle SOA Suite for healthcare integration user interface. The interface is not supported for Oracle SOA Suite for healthcare integration.

If you are *not* planning to use the Oracle SOA Suite for healthcare integration user interface, then set the value of the Healthcare Integration custom variable to **NO**. If you *are* planning to use the Oracle SOA Suite for healthcare integration user interface, set it to **YES**. Otherwise, the Oracle SOA Suite for healthcare integration user interface will not function properly after it is installed and configured.

When set to **YES**, the RCU creates additional materialized views in the database, which are required by the Oracle SOA Suite for healthcare integration user interface. When set to **NO**, you can perform these additional schema configuration tasks later by running the following SQL script on the database. This script is installed in the Oracle Fusion Middleware Oracle home when you select the Healthcare with B2B installation type:

```
ORACLE_HOME/common/sql/soainfra/sql/oracle/b2b_mv.sql
```

See *Using the Oracle SOA Suite for Healthcare Integration User Interface in Healthcare Integration User's Guide for Oracle SOA Suite*.

About Product Distributions

You create the initial Oracle B2B and SOA Suite for Healthcare Integration 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 B2B and SOA Suite for Healthcare Integration.

Obtaining the Product Distribution

You can obtain the Oracle Fusion Middleware Infrastructure and Oracle B2B and SOA Suite for Healthcare Integration distribution on the Oracle Technology Network (OTN).

To prepare to install Oracle Fusion Middleware Infrastructure and Oracle B2B and SOA Suite for Healthcare Integration:

1. Enter `java -version` on the command line to verify that a certified JDK is installed on your system. For 12c (12.2.1.3.0), the certified JDK is 1.8.0_131 and later.
See [About JDK Requirements for an Oracle Fusion Middleware Installation](#).
2. Locate and download the Oracle Fusion Middleware Infrastructure and Oracle B2B and SOA Suite for Healthcare Integration software.

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

3

Installing the Oracle B2B and SOA Suite for Healthcare Integration Software

Follow the steps in this section to install the Oracle B2B and SOA Suite for Healthcare Integration software.

Before beginning the installation, ensure that you have verified the prerequisites and completed all steps covered in [Preparing to Install and Configure Oracle B2B and SOA Suite for Healthcare Integration](#).

- [Verifying the Installation Checklist](#)
The installation process requires specific information.
- [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 whether it was successful by completing a series of tasks.

Verifying the Installation Checklist

The installation process requires specific information.

[Table 3-1](#) lists important items that you must know before, or decide during, Oracle B2B and SOA Suite for Healthcare Integration installation.

Table 3-1 Installation Checklist

Information	Example Value	Description
JAVA_HOME	/home/Oracle/Java/ jdk1.8.0_131	Environment variable that points to the Java JDK home directory.
Database host	examplehost.exampledomain	Name and domain of the host where the database is running.
Database port	1521	Port number that the database listens on. The default Oracle database listen port is 1521.
Database service name	orcl.exampledomain	Oracle databases require a unique service name. The default service name is orcl.

Table 3-1 (Cont.) Installation Checklist

Information	Example Value	Description
DBA username	SYS	Name of user with database administration privileges. The default DBA user on Oracle databases is SYS.
DBA password	myDBApw957	Password of the user with database administration privileges.
<i>ORACLE_HOME</i>	<i>/home/Oracle/product/ ORACLE_HOME</i>	Directory in which you will install your software. This directory will include Oracle Fusion Middleware Infrastructure and Oracle B2B and SOA Suite for Healthcare Integration, as needed.
WebLogic Server hostname	examplehost.exampledomain	Host name for Oracle WebLogic Server and Oracle B2B and SOA Suite for Healthcare Integration consoles.
Console port	7001	Port for Oracle WebLogic Server and Oracle B2B and SOA Suite for Healthcare Integration consoles.
<i>DOMAIN_HOME</i>	<i>/home/Oracle/config/ domains/b2b_domain</i>	Location in which your domain data is stored.
<i>APPLICATION_HOME</i>	<i>/home/Oracle/config/ applications/b2b_domain</i>	Location in which your application data is stored.
Administrator user name for your WebLogic domain	weblogic	Name of the user with Oracle WebLogic Server administration privileges. The default administrator user is weblogic.
Administrator user password	myADMpw902	Password of the user with Oracle WebLogic Server administration privileges.
FTP Port	7021	Port for embedded FTP server.
RCU	<i>ORACLE_HOME/ oracle_common/bin</i>	Path to the Repository Creation Utility (RCU).
RCU schema prefix	B2B	Prefix for names of database schemas used by Oracle B2B and SOA Suite for Healthcare Integration.
RCU schema password	myRCUpw674	Password for the database schemas used by Oracle B2B and SOA Suite for Healthcare Integration.

Table 3-1 (Cont.) Installation Checklist

Information	Example Value	Description
Configuration utility	<code>ORACLE_HOME/ oracle_common/ common/bin</code>	Path to the Configuration Wizard for domain creation and configuration.
<code>\$FTP_ROOT</code>	<code>\$DOMAIN_HOME/product/ ftp_root</code>	Embedded FTP server root directory.

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 (12.2.1.3.0), the certified JDK is 1.8.0_131 and later.

For more information about JDK requirements, 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. Start the installation program by running the `java` executable from the JDK directory. For example:
 - (UNIX) `/home/Oracle/Java/jdk1.8.0_131/bin/java -jar fmw_12.2.1.3.0_b2bhealthcare_generic.jar`
 - (Windows) `C:\home\Oracle\Java\jdk1.8.0_131\bin\java -jar fmw_12.2.1.3.0_b2bhealthcare_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.

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 3-2 Oracle B2B and SOA Suite for Healthcare Integration Install Screens

Screen	Description
Installation Inventory Setup	<p>On UNIX operating systems, this screen opens if this is the first time you are installing any Oracle product on this host. Specify the location where you want to create your central inventory. Make sure that the operating system group name selected on this screen has write permissions to the central inventory location.</p> <p>For more about the central inventory, see About the Oracle Central Inventory in <i>Installing Software with the Oracle Universal Installer</i>.</p> <p>This screen does not appear on Windows operating systems.</p>
Welcome	Review the information to make sure that you have met all the prerequisites, then click Next .
Auto Updates	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	<p>Specify your Oracle home directory location.</p> <p>This Oracle home must include Oracle Fusion Middleware Infrastructure , along with any other 12c (12.2.1.3.0) products that have been installed.</p> <p>You can click View to verify and ensure that you are installing Oracle B2B and SOA Suite for Healthcare Integration in the correct Oracle home.</p>
Installation Type	Select B2B if you are creating the B2B standard topology. Select Healthcare if you are creating a healthcare topology for HIPAA standards or HL7 documents.
Prerequisite Checks	<p>This screen verifies that your system meets the minimum necessary requirements.</p> <p>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).</p>
Installation Summary	<p>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.</p> <p>Click Install to begin the installation.</p>
Installation Progress	<p>This screen shows the installation progress.</p> <p>When the progress bar reaches 100% complete, click Finish to dismiss the installer, or click Next to see a summary.</p>
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.

Verifying the Installation

After you complete the installation, verify whether 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 that you selected during the installation.
- [Viewing the Contents of the Oracle Home](#)
You can view the contents of the Oracle home directory by using the `viewInventory` script.

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*.

Checking the Directory Structure

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

See *What Are the Key Oracle Fusion Middleware Directories?* in *Understanding Oracle Fusion Middleware*.

Viewing the Contents of the Oracle Home

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

See *Viewing the Contents of an Oracle Home* in *Installing Software with the Oracle Universal Installer*.

4

Configuring Oracle B2B Domain

After you have installed Oracle B2B, you can configure the domain, which you can also extend for high availability.

The configuration steps presented here assume that you have completed the installation steps covered in:

- [Preparing to Install and Configure Oracle B2B and SOA Suite for Healthcare Integration](#)
- [Installing the Oracle B2B and SOA Suite for Healthcare Integration Software](#)

Refer to the following sections to create the database schemas, configure a WebLogic domain, and verify the configuration:

- [Creating the Database Schemas](#)
Before you can configure an Oracle B2B and SOA Suite for Healthcare Integration domain, you must install required schemas on a certified database for use with this release of Oracle Fusion Middleware.
- [Configuring the Domain](#)
Use the Configuration Wizard to create and configure a domain.
- [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.

Creating the Database Schemas

Before you can configure an Oracle B2B and SOA Suite for Healthcare Integration domain, you must install required schemas on a certified database for use with this release of Oracle Fusion Middleware.

- [Installing and Configuring a Certified Database](#)
Before you create 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 you verify that a certified JDK is installed on your system.
- [Navigating the Repository Creation Utility Screens to Create Schemas](#)
Enter required information in the RCU screens to create the database schemas.

Installing and Configuring a Certified Database

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

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

Starting the Repository Creation Utility

Start the Repository Creation Utility (RCU) after you verify 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 (12.2.1.3.0), the certified JDK is 1.8.0_131 and later.
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_131`
 - (Windows) `set JAVA_HOME=C:\home\Oracle\Java\jdk1.8.0_131`
3. Change to the following directory:
 - (UNIX) `ORACLE_HOME/oracle_common/bin`
 - (Windows) `ORACLE_HOME\oracle_common\bin`
4. Enter the following command:
 - (UNIX) `./rcu`
 - (Windows) `rcu.bat`

Navigating the Repository Creation Utility Screens to Create 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 for Oracle B2B and Healthcare](#)
Specify a custom prefix and database schema to automatically select Common Infrastructure Services and dependent schemas.

- [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](#)
Specify the custom variables for the SOA Infrastructure schema.
- [Completing Schema Creation](#)
Navigate through the remaining RCU screens to complete schema creation.

Introducing the RCU

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

Click **Next**.

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 permissions 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 permissions 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**.

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
Host 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 connection.

Specifying a Custom Prefix and Selecting Schemas for Oracle B2B and Healthcare

Specify a custom prefix and database schema to automatically select Common Infrastructure Services and dependent schemas.

Select **Create new prefix**, specify a custom prefix, then select the **SOA Suite** schema. This action automatically selects the following schemas as dependencies:

- User Messaging Service
- Metadata Services
- Oracle Platform Security Services
- Audit Services
- Audit Services Append
- Audit Services Viewer
- WebLogic Services

The schema Common Infrastructure Services is also automatically created; this schema is grayed out; you cannot select or deselect it. This schema enables you to retrieve information from RCU during domain configuration. See *Understanding the Service Table Schema* in *Creating Schemas with the Repository Creation Utility*.

The custom prefix is used to logically group 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.

For more information about custom prefixes, see *Understanding Custom Prefixes* in *Creating Schemas with the Repository Creation Utility*.

For more information about how to organize your schemas in a multi-domain environment, see *Planning Your Schema Creation* in *Creating Schemas with the Repository Creation Utility*.

Tip:

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

Click **Next** to proceed, then click **OK** on the dialog window confirming that prerequisite checking for schema creation was successful.

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.

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

Specifying Custom Variables

Specify the custom variables for the SOA Infrastructure schema.

For the Oracle SOA Suite standard installation topology, set values for the **Database Profile (SMALL)** and **Healthcare Integration (NO for B2B installation, YES for Healthcare Integration for Oracle SOA Suite)**.

See [About the Custom Variables Required for the SOA Suite Schemas](#)

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

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 Transparent Data Encryption (TDE) 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 creates.

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

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.

Starting the Configuration Wizard

Start the Configuration Wizard to begin configuring a domain.

To start the Configuration Wizard:

1. Change to the following directory:
(UNIX) `ORACLE_HOME/oracle_common/common/bin`

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

where `ORACLE_HOME` is your 12c (12.2.1.3.0) Oracle home.

2. Enter the following command:

(UNIX) `./config.sh`

(Windows) `config.cmd`

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 Templates for Oracle B2B](#)
Use the Templates screen to select the templates you require.
- [Configuring High Availability Options](#)
Use this screen to configure service migration and persistence settings that affect high availability. This screen appears for the first time when you create a cluster that uses automatic service migration, persistent stores, or both, and all subsequent clusters that are added to the domain by using the Configuration Wizard, automatically apply the selected HA options.
- [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.
- [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 B2B](#)
Use the Managed Servers screen to configure Managed Servers.
- [Configuring a Cluster for Oracle B2B](#)
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 B2B 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 B2B 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 B2B 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.

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.

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

Selecting the Configuration Templates for Oracle B2B

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 B2B - 12.2.1.3.0 [soa]

Selecting this template automatically selects the following as dependencies:

- Oracle SOA Suite
- Oracle Enterprise Manager
- Oracle WSM Policy Manager
- Oracle JRF
- WebLogic Coherence Cluster Extension

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

Configuring High Availability Options

Use this screen to configure service migration and persistence settings that affect high availability. This screen appears for the first time when you create a cluster that uses automatic service migration, persistent stores, or both, and all subsequent clusters that are added to the domain by using the Configuration Wizard, automatically apply the selected HA options.

Enable Automatic Service Migration

Select **Enable Automatic Service Migration** to enable pinned services to migrate automatically to a healthy Managed Server for failover. It configures migratable target definitions that are required for automatic service migration and the cluster leasing. Choose one of these cluster leasing options:

- Database Leasing - Managed Servers use a table on a valid JDBC System Resource for leasing. Requires that the Automatic Migration data source have a valid JDBC System Resource. If you select this option, the Migration Basis is configured to Database and the Data Source for Automatic Migration is also automatically configured by the Configuration Wizard. If you have a high availability database, such as Oracle RAC, to manage leasing information, configure the database for server migration according to steps in [High-availability Database Leasing](#).
- Consensus Leasing - Managed Servers maintain leasing information in-memory. You use Node Manager to control Managed Servers in a cluster. (All servers that are migratable, or which could host a migratable target, must have a Node Manager associated with them.) If you select this option, the Migration Basis is configured to Consensus by the Configuration Wizard.

See Leasing for more information on leasing.

See Service Migration for more information on Automatic Service Migration.

JTA Transaction Log Persistence

This section has two options: **Default Persistent Store** and **JDBC TLog Store**.

- Default Persistent Store - Configures the JTA Transaction Log store of the servers in the default file store.
- JDBC TLog Store - Configures the JTA Transaction Log store of the servers in JDBC stores.

Oracle recommends that you select **JDBC TLog Store**. When you complete the configuration, you have a cluster where JDBC persistent stores are set up for Transaction logs.

For more details on persistent and TLOG stores, see the following topics in *Developing JTA Applications for Oracle WebLogic Server*:

- Using the Default Persistent Store
- Using a JDBC TLOG Store

JMS Service Persistence

A persistent **JMS store** is a physical repository for storing persistent message data and durable subscribers. It can be either a disk-based **file store** or a JDBC-accessible database. You can use a **JMS file store** for paging of messages to disk when memory is exhausted.

- JMS File Store - Configures a component to use JMS File Stores. If you select this option, you can choose the **File Store** option in the Advanced Configuration Screen to change the settings, if required. In the File Stores screen, you can set file store names, directories, and synchronous write policies.
- JMS JDBC Store - Configures a component to use JDBC stores for all its JMS servers. When you complete the configuration, you have a cluster and JDBC persistent stores are configured for the JMS servers.

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.

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*.

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.

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.

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

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**, specify details 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
Host Name	Enter the name of the server hosting the database. Example: examplehost.exampledomain.com
Port	Enter the port number on which the database listens. Example: 1521
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 <code>prefix</code> 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.
```

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*.

See *Database Configuration Type* in *Creating WebLogic Domains Using the Configuration Wizard*.

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.

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](#)

See *JDBC Component Schema* in *Creating WebLogic Domains Using the Configuration Wizard* for more details about this screen.

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.

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

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 B2B 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*.

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.

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.

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*.

Configuring Managed Servers for Oracle B2B

Use the Managed Servers screen to configure Managed Servers.

On the Managed Servers screen, a new Managed Server named `b2b_server1` is automatically created by default.

 **Note:**

When deployed on a SOA server, the default Managed Server name is `soa_server1` instead of `b2b_server1`. In this guide, `b2b_server1` is used to readily identify this Managed Server.

To configure Managed Servers for Oracle B2B:

1. In the Listen Address drop-down list, select the IP address of the host on which the Managed Server will reside or use the system name or DNS name that maps to a single IP address. Do not use `All Local Addresses`.
2. In the Server Groups drop-down list, make sure that **SOA-MGD-SVRS** is selected. This server group ensures that SOA and Oracle Web Services Manager (OWSM) services are targeted to the Managed Servers you are creating.

There is another server group called **SOA-MGD-SVRS-ONLY** that targets only SOA but not Oracle Web Services Manager (OWSM) to the server. This is typically used if you want to have Oracle Web Services Manager (OWSM) in a different server rather than with the SOA server.

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. See *Application Service Groups, Server Groups, and Application Service Mappings in Domain Template Reference*.

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 **SOA-MGD-SVRS** to create a second Managed Server named `b2b_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](#).

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

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

Configuring a Cluster for Oracle B2B

Use the Clusters screen to create a new cluster.

On the Clusters screen:

1. Click **Add**.
2. Specify `b2b_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. See Create and configure clusters in *Oracle WebLogic Server Administration Console Online Help*.

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

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*.

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.

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

Assigning Oracle B2B 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.

 **Note:**

All Managed Servers of a component type in the domain must belong to that cluster. For example, Oracle B2B domains support only a single Oracle B2B cluster inside each domain.

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, `b2b_cluster1`.
2. In the Servers pane, assign `b2b_server1` to `b2b_cluster1` by doing one of the following:
 - Click once on `b2b_server1` to select it, then click the right arrow to move it beneath the selected cluster (`b2b_cluster1`) in the Clusters pane.
 - Double-click on `b2b_server1` to move it beneath the selected cluster (`b2b_cluster1`) in the Clusters pane.
3. Repeat to assign `b2b_server2` to `b2b_cluster1`.

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

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

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.

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

Creating a New Oracle B2B 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.

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 about scale out steps, see *Optional Scale Out Procedure* in *High Availability Guide*.

To create a new Oracle B2B 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 `soa_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.

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

Assigning Servers to Oracle B2B 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, `soa_machine1`.
2. In the Servers pane, assign `AdminServer` to `soa_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 (`soa_machine1`) in the Machines pane.
 - Double-click on `AdminServer` to move it beneath the selected machine (`soa_machine1`) in the Machines pane.
3. Repeat these steps to assign all Managed Servers to their respective machines.

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

Virtual Targets

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

For details about this screen, see *Virtual Targets* in *Creating WebLogic Domains Using the Configuration Wizard*.

Partitions

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

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

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**.

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

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.

Starting the Servers

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

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](#)

Starting Node Manager

To start the per-domain Node Manager:

1. Change to the following directory:
 - (UNIX) `setenv JAVA_HOME /home/Oracle/Java/jdk1.8.0_131`
 - (Windows) `set JAVA_HOME=C:\home\Oracle\Java\jdk1.8.0_131`

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*.

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 provided on the Administrator Account screen.

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

In production mode, a boot identity file can be created to bypass the need to provide a user name and password when starting the Administration Server. For more boot identity files, 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*.

Starting the Managed Servers

To start the Managed Servers:

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

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](#).

5

Configuring the Oracle SOA Suite for Healthcare Integration Domain

After you have installed Oracle SOA Suite for Healthcare Integration, you can configure the domain, which you can also extend for high availability.

The configuration steps presented here assume that you have completed the installation steps covered in:

- [Preparing to Install and Configure Oracle B2B and SOA Suite for Healthcare Integration](#)
- [Installing the Oracle B2B and SOA Suite for Healthcare Integration Software](#)

Refer to the following sections to create the database schemas for Oracle SOA Suite for Healthcare Integration, configure a WebLogic domain for Oracle SOA Suite for Healthcare Integration, and verify the configuration.

- [Creating the Database Schemas](#)
Before you can configure an Oracle B2B and SOA Suite for Healthcare Integration domain, you must install required schemas on a certified database for use with this release of Oracle Fusion Middleware.
- [Configuring the Domain](#)
Use the Configuration Wizard to create and configure a domain.
- [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.

Creating the Database Schemas

Before you can configure an Oracle B2B and SOA Suite for Healthcare Integration domain, you must install required schemas on a certified database for use with this release of Oracle Fusion Middleware.

- [Installing and Configuring a Certified Database](#)
Before you create 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 you verify that a certified JDK is installed on your system.
- [Navigating the Repository Creation Utility Screens to Create Schemas](#)
Enter required information in the RCU screens to create the database schemas.

Installing and Configuring a Certified Database

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

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

Starting the Repository Creation Utility

Start the Repository Creation Utility (RCU) after you verify 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 (12.2.1.3.0), the certified JDK is 1.8.0_131 and later.
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_131`
 - (Windows) `set JAVA_HOME=C:\home\Oracle\Java\jdk1.8.0_131`
3. Change to the following directory:
 - (UNIX) `ORACLE_HOME/oracle_common/bin`
 - (Windows) `ORACLE_HOME\oracle_common\bin`
4. Enter the following command:
 - (UNIX) `./rcu`
 - (Windows) `rcu.bat`

Navigating the Repository Creation Utility Screens to Create 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 for Oracle B2B and Healthcare](#)
Specify a custom prefix and database schema to automatically select Common Infrastructure Services and dependent schemas.

- [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](#)
Specify the custom variables for the SOA Infrastructure schema.
- [Completing Schema Creation](#)
Navigate through the remaining RCU screens to complete schema creation.

Introducing the RCU

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

Click **Next**.

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 permissions 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 permissions 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**.

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
Host 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 connection.

Specifying a Custom Prefix and Selecting Schemas for Oracle B2B and Healthcare

Specify a custom prefix and database schema to automatically select Common Infrastructure Services and dependent schemas.

Select **Create new prefix**, specify a custom prefix, then select the **SOA Suite** schema. This action automatically selects the following schemas as dependencies:

- User Messaging Service
- Metadata Services
- Oracle Platform Security Services
- Audit Services
- Audit Services Append
- Audit Services Viewer
- WebLogic Services

The schema Common Infrastructure Services is also automatically created; this schema is grayed out; you cannot select or deselect it. This schema enables you to retrieve information from RCU during domain configuration. See *Understanding the Service Table Schema* in *Creating Schemas with the Repository Creation Utility*.

The custom prefix is used to logically group 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.

For more information about custom prefixes, see *Understanding Custom Prefixes* in *Creating Schemas with the Repository Creation Utility*.

For more information about how to organize your schemas in a multi-domain environment, see *Planning Your Schema Creation* in *Creating Schemas with the Repository Creation Utility*.



Tip:

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

Click **Next** to proceed, then click **OK** on the dialog window confirming that prerequisite checking for schema creation was successful.

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.

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

Specifying Custom Variables

Specify the custom variables for the SOA Infrastructure schema.

For the Oracle SOA Suite standard installation topology, set values for the **Database Profile (SMALL)** and **Healthcare Integration (NO for B2B installation, YES for Healthcare Integration for Oracle SOA Suite)**.

See [About the Custom Variables Required for the SOA Suite Schemas](#)

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

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 Transparent Data Encryption (TDE) 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 creates.

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

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.

Starting the Configuration Wizard

Start the Configuration Wizard to begin configuring a domain.

To start the Configuration Wizard:

1. Change to the following directory:
(UNIX) `ORACLE_HOME/oracle_common/common/bin`

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

where `ORACLE_HOME` is your 12c (12.2.1.3.0) Oracle home.

2. Enter the following command:

(UNIX) `./config.sh`

(Windows) `config.cmd`

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 Templates for Oracle SOA Suite for Healthcare Integration](#)
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.
- [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 Healthcare](#)
Use the Managed Servers screen to configure Managed Servers.
- [Configuring a Cluster for Oracle Healthcare](#)
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 Healthcare 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 Healthcare 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 Healthcare 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.

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.

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

Selecting the Configuration Templates for Oracle SOA Suite for Healthcare Integration

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 SOA Suite for healthcare integration - 12.2.1.3.0 [soa]
Selecting this template automatically selects the following as dependencies:
 - Oracle B2B
 - Oracle SOA Suite
 - Oracle Enterprise Manager
 - Oracle WSM Policy Manager
 - Oracle JRF
 - WebLogic Coherence Cluster Extension

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

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.

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*.

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.

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.

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

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**, specify details 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
Host Name	Enter the name of the server hosting the database. Example: examplehost.exampledomain.com
Port	Enter the port number on which the database listens. Example: 1521

Field	Description
Schema Owner	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).
Schema Password	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.
```

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*.

See *Database Configuration Type* in *Creating WebLogic Domains Using the Configuration Wizard*.

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.

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](#)

See *JDBC Component Schema* in *Creating WebLogic Domains Using the Configuration Wizard* for more details about this screen.

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.

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

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 B2B 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*.

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.

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.

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*.

Configuring Managed Servers for Oracle Healthcare

Use the Managed Servers screen to configure Managed Servers.

On the Managed Servers screen, a new Managed Server named `hc_server1` is automatically created by default.



Note:

When deployed on a SOA server, the default Managed Server name is `soa_server1` instead of `hc_server1`. In this guide, `hc_server1` is used to readily identify this Managed Server.

To configure Managed Servers for Oracle Healthcare:

1. In the Listen Address drop-down list, select the IP address of the host on which the Managed Server will reside or use the system name or DNS name that maps to a single IP address. Do not use `All Local Addresses`.
2. In the Server Groups drop-down list, make sure that **SOA-MGD-SVRS** is selected. This server group ensures that SOA and Oracle Web Services Manager (OWSM) services are targeted to the Managed Servers you are creating.

There is another server group called **SOA-MGD-SVRS-ONLY** that targets only SOA but not Oracle Web Services Manager (OWSM) to the server. This is typically used if you want to have Oracle Web Services Manager (OWSM) in a different server rather than with the SOA server.

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. See *Application Service Groups, Server Groups, and Application Service Mappings in Domain Template Reference*.

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 **SOA-MGD-SVRS** to create a second Managed Server named `hc_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](#).

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

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

Configuring a Cluster for Oracle Healthcare

Use the Clusters screen to create a new cluster.

On the Clusters screen:

1. Click **Add**.
2. Specify `hc_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. See *Create and configure clusters* in *Oracle WebLogic Server Administration Console Online Help*.

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

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*.

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.

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

Assigning Oracle Healthcare 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.

 **Note:**

All Managed Servers of a component type in the domain must belong to that cluster. For example, Oracle SOA Suite for Healthcare Integration domains support only a single Healthcare cluster inside each domain.

See About Dynamic Clusters for more on configured cluster and dynamic cluster terms.

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, `hc_cluster1`.
2. In the Servers pane, assign `hc_server1` to `hc_cluster1` by doing one of the following:
 - Click once on `hc_server1` to select it, then click the right arrow to move it beneath the selected cluster (`hc_cluster1`) in the Clusters pane.
 - Double-click on `hc_server1` to move it beneath the selected cluster (`hc_cluster1`) in the clusters pane.
3. Repeat to assign `hc_server2` to `hc_cluster1`.

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

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

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.

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

Creating a New Oracle Healthcare 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.

To create a new Oracle Healthcare 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 `hc_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.

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

Assigning Servers to Oracle Healthcare 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, `hc_machine1`.
2. In the Servers pane, assign `AdminServer` to `hc_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 (`hc_machine1`) in the Machines pane.
 - Double-click on `AdminServer` to move it beneath the selected machine (`hc_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 for a product are assigned to machines.

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

Virtual Targets

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

For details about this screen, see Virtual Targets in *Creating WebLogic Domains Using the Configuration Wizard*.

Partitions

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

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

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**.

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

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.

Starting the Servers

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

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](#)

Starting Node Manager

To start the per-domain Node Manager:

1. Change to the following directory:

- (UNIX) `setenv JAVA_HOME /home/Oracle/Java/jdk1.8.0_131`
- (Windows) `set JAVA_HOME=C:\home\Oracle\Java\jdk1.8.0_131`

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*.

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 provided on the Administrator Account screen.

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

In production mode, a boot identity file can be created to bypass the need to provide a user name and password when starting the Administration Server. For more boot identity files, 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](#).

Starting the Managed Servers

To start the Managed Servers:

1. Sign 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 the servers configured for this domain and displays their status (such as **Running** or **Shutdown**). For a newly configured domain, only the **AdminServer(admin)** will be running.

Select the first Managed Server.

3. Next to the **WebLogic Server** menu, select **Start Up**.
4. Repeat Steps 3 and 4 to start all Managed Servers.
5. On the main landing page, verify that all the Managed Servers are up and running.

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](#).

6

Next Steps After Configuring the Domain

After you configure 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 Your Environment for High Availability](#)
Scaling out for high availability requires additional steps.

Performing Basic Administrative Tasks

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

Table 6-1 Basic Administration Tasks for a New Domain

Task	Description	More Information
Getting familiar with Fusion Middleware administration tools	Get familiar with 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 the recommended backup and recovery procedures for Oracle Fusion Middleware.	See Introduction to Backup and Recovery in <i>Administering Oracle Fusion Middleware</i> .
Getting familiar with database purging	Get familiar with scheduling and running purge jobs that automatically remove older flow instances, adapter reports, and fault alerts data from the database.	See Managing Database Growth in <i>Administering Oracle SOA Suite and Oracle Business Process Management Suite</i> .

Performing Additional Domain Configuration Tasks

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

Table 6-2 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 information 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> .

Preparing Your Environment for High Availability

Scaling out for high availability requires additional steps.

[Table 6-3](#) provides a list of tasks to perform if you want to scale out your standard installation environment for high availability.

Table 6-3 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 <i>Scaling Out a Topology (Machine Scale Out)</i> 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 <i>Configuring High Availability for Web Tier Components</i> 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 <i>Server Load Balancing in a High Availability Environment and Configuring Load Balancer Virtual Server Names and Ports</i> 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 <i>Advanced Node Manager Configuration</i> in <i>Administering Node Manager for Oracle WebLogic Server</i> .

7

Uninstalling or Reinstalling Oracle B2B and SOA Suite for Healthcare Integration

Follow the instructions in this section to uninstall or reinstall Oracle B2B and SOA Suite for Healthcare Integration.

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.

- [About Product Uninstallation](#)
The Oracle Fusion Middleware uninstaller removes the software from the Oracle home directory.
- [Stopping Oracle Fusion Middleware](#)
Before running the Uninstall Wizard, 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.
- [Uninstalling the Software](#)
Follow the instructions in this section to start the Uninstall Wizard and remove the software.
- [Removing the Oracle Home Directory Manually](#)
After you uninstall the software, you must manually remove your Oracle home directory and any existing subdirectories that the Uninstall Wizard did not remove.
- [Removing the Program Shortcuts on Windows Operating Systems](#)
On Windows operating systems, you must also manually remove the program shortcuts; the Deinstallation Wizard does not remove them for you.
- [Removing the Domain and Application Data](#)
After you uninstall the software, you must remove the domain and application data.
- [Reinstalling the Software](#)
You can reinstall your software into the same Oracle home as a previous installation only if you uninstalled the software by following the instructions in this section, including manually removing the Oracle home directory.

About Product Uninstallation

The Oracle Fusion Middleware uninstaller removes the software from the Oracle home directory.

The following table summarizes the tasks to uninstall Fusion Middleware products.

Table 7-1 Roadmap for Product Uninstallation

Task	Description	Documentation
Stop Oracle Fusion Middleware	All servers and processes in your domain should be stopped before running the uninstaller.	See Stopping Oracle Fusion Middleware .
Remove your database schemas	Run Repository Creation Utility to remove your database schemas.	See Removing Your Database Schemas .
Remove the software	Run the product uninstaller to remove Oracle Fusion Middleware Infrastructure. Note that if your Oracle home contains multiple products, you must run the uninstaller multiple times, once for each product.	See Uninstalling the Software .
Remove the Oracle home directory	The uninstaller does not remove all files and folders from the Oracle home directory. After the uninstaller is finished, you must manually remove the Oracle home to complete your product removal.	See Removing the Oracle Home Directory Manually .
Remove your domain and application data	The uninstaller does not remove data contained in your Domain home or Application home directories, even if they are located inside the Oracle home. You must remove these directories manually.	See Removing the Domain and Application Data .

Stopping Oracle Fusion Middleware

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

See *Stopping an Oracle Fusion Middleware Environment* in *Administering Oracle Fusion Middleware*.

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. For more information about custom prefixes, see *About Custom Prefixes* in *Creating Schemas with the Repository Creation Utility*. This set of schemas cannot be shared with any other domain. For more information about creating schemas with the RCU, 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 that you are removing.

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

Uninstalling the Software

Follow the instructions in this section to start the Uninstall Wizard and remove the software.

If you want to uninstall the product in a silent (command-line) mode, see *Running the Oracle Universal Installer for Silent Uninstallation* in *Installing Software with the Oracle Universal Installer*.

- [Starting the Uninstall Wizard](#)
- [Selecting the Product to Uninstall](#)
- [Navigating the Uninstall Wizard Screens](#)

Starting the Uninstall Wizard

To start the Uninstall Wizard:

1. Change to the following directory:
(UNIX) `ORACLE_HOME/oui/bin`
(Windows) `ORACLE_HOME\oui\bin`
2. Enter the following command:
(UNIX) `./deinstall.sh`
(Windows) `deinstall.cmd`

Selecting the Product to Uninstall

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

After you run the Uninstall Wizard, the Distribution to Uninstall screen opens. From the dropdown menu, select **B2B 12.2.1.3.0** and click **Uninstall**. The uninstallation program shows the screens listed in [Navigating the Uninstall Wizard Screens](#).

Note:

You can uninstall Oracle Fusion Middleware Infrastructure after you uninstall Oracle B2B and SOA Suite for Healthcare Integration software by running the Uninstall Wizard again. Before doing so, make sure that 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. See *Uninstalling Oracle Fusion Middleware Infrastructure* in *Installing and Configuring the Oracle Fusion Middleware Infrastructure*.

Navigating the Uninstall Wizard Screens

The Uninstall Wizard shows a series of screens to confirm the removal of the software.

If you need help on screen listed in [Table 7-2](#), click **Help** on the screen.

Table 7-2 Uninstall Wizard Screens and Descriptions

Screen	Description
Welcome	Introduces you to the product Uninstall Wizard.
Uninstall Summary	Shows the Oracle home directory and its contents that are uninstalled. 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 the response file later to uninstall the product in silent (command-line) mode. See <i>Running the Oracle Universal Installer for Silent Uninstall</i> in <i>Installing Software with the Oracle Universal Installer</i> . Click Deinstall , to begin removing the software.
Uninstall Progress	Shows the uninstallation progress.
Uninstall Complete	Appears when the uninstallation is complete. Review the information on this screen, then click Finish to close the Uninstall Wizard.

Removing the Oracle Home Directory Manually

After you uninstall the software, you must manually remove your Oracle home directory and any existing subdirectories that the Uninstall Wizard 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. Right-click on the `ORACLE_HOME` folder and select **Delete**.

Removing the Program Shortcuts on Windows Operating Systems

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

To remove the program shortcuts on Windows:

1. Change to the following directory: `C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Oracle\ORACLE_HOME\Product`
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 you delete the `ORACLE_HOME` directory.

Removing the Domain and Application Data

After you uninstall 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/b2b_domain`, enter the following command:

```
cd /home/Oracle/config/domains
rm -rf b2b_domain
```

On a Windows operating system, if your Domain home directory is `C:\Oracle\Config\domains\b2b_domain`, use a file manager window and navigate to the `C:\Oracle\Config\domains` directory. Right-click on the `b2b_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/b2b_domain`, enter the following commands:

```
cd /home/Oracle/config/applications
rm -rf b2b_domain
```

On a Windows operating system, if your Application home directory is `C:\Oracle\Config\applications\b2b_domain`, use a file manager window and navigate to the `C:\Oracle\Config\applications` directory. Right-click on the `b2b_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 that you are removing. For example, to remove the `b2b_domain`, find the following line and remove it:

```
<domain location="/home/Oracle/config/domains/b2b_domain"/>
```

Save and exit the file when you are finished.

Reinstalling the Software

You can reinstall your software into the same Oracle home as a previous installation only if you uninstalled 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.

If ODI is installed again in the same location where it was previously deleted, delete the entire Oracle Home where it was previously installed.

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 that you specified during installation already contains the same software you are trying to install.

You can either:

- 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 you chose to create your Domain home or Application home somewhere inside your existing Oracle home. This data is not removed when you uninstall a product, so if you try to reinstall into the same Oracle home, the installer does not allow it. Your options are:

- Uninstall your software from the Oracle home (as this section describes) and then remove the Oracle home directory. After you uninstall 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.
- Select a different Oracle home directory.

A

Secondary Topologies for Oracle B2B

This appendix describes secondary (alternate) topologies for Oracle B2B.

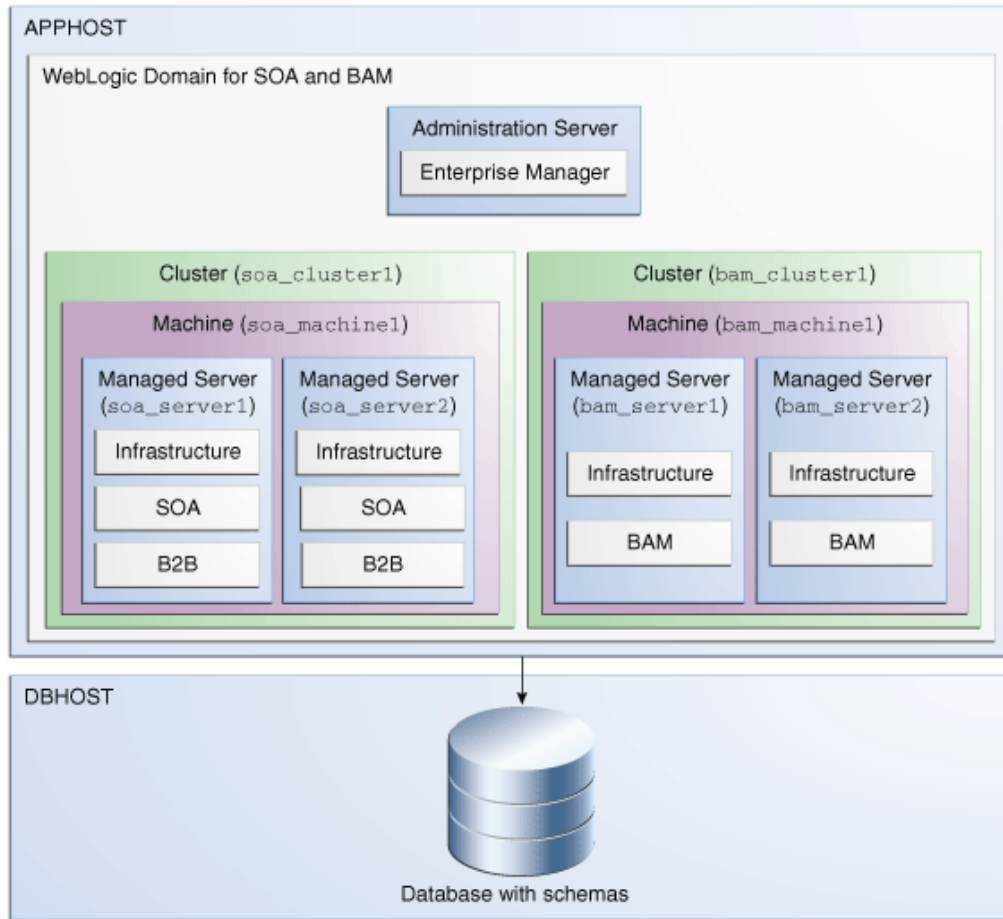
- [Oracle SOA Suite, Oracle B2B, and Business Activity Monitoring Topology](#)
Use this topology to implement Oracle Business Activity Monitoring (BAM) in your Oracle B2B domain.
- [Oracle SOA Suite, Oracle B2B, and Oracle Service Bus Topology](#)
Use this topology to implement Oracle Service Bus in your Oracle B2B domain.

Oracle SOA Suite, Oracle B2B, and Business Activity Monitoring Topology

Use this topology to implement Oracle Business Activity Monitoring (BAM) in your Oracle B2B domain.

The BAM software is targeted to its own cluster; this ensures that there is no resource contention between the Oracle B2B and BAM software.

Figure A-1 BAM and B2B Topology



Roadmap for Installing and Configuring the Oracle SOA Suite, B2B, and Business Activity Monitoring Topology

The following table describes the roadmap needed to configure this topology on your system.

Table A-1 Overview of the Installation and Configuration Steps for Oracle SOA Suite, B2B, and Business Activity Monitoring

Task	Description	More Information	Special Instructions
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 .	None.

Table A-1 (Cont.) Overview of the Installation and Configuration Steps for Oracle SOA Suite, B2B, and Business Activity Monitoring

Task	Description	More Information	Special Instructions
Obtain the appropriate distribution	Oracle B2B requires an existing Oracle SOA Suite and Oracle Fusion Middleware Infrastructure installation. When you install Oracle SOA Suite, Business Activity Monitoring also gets automatically installed. You must install B2B in the same Oracle home as Oracle Fusion Middleware Infrastructure and Oracle SOA Suite.	See About Product Distributions .	You must obtain all distributions of Oracle Infrastructure, Oracle SOA Suite and Business Process Management, and Oracle B2B.
Determine your installation directories	Verify that the directories that will need to be created can be created or accessed by the installer, and exist on systems that meet the minimum requirements.	See <i>What Are the Key Oracle Fusion Middleware Directories?</i> in <i>Understanding Oracle Fusion Middleware</i> .	None.
Install Oracle Fusion Middleware Infrastructure	Install Oracle Fusion Middleware Infrastructure to create the Oracle home directory for Oracle SOA Suite and B2B.	See <i>Installing the Infrastructure Software</i> in <i>Installing and Configuring the Oracle Fusion Middleware Infrastructure</i> .	You do not need to configure Oracle Fusion Middleware Infrastructure.
Install Oracle SOA Suite	Install the Oracle SOA Suite software into the existing Oracle Infrastructure Oracle home.	See <i>Installing the Oracle SOA Suite and Oracle Business Process Management Software</i> in <i>Installing and Configuring Oracle SOA Suite and Business Process Management</i> .	You do not need to configure Oracle SOA Suite.
Install Oracle B2B	Install the Oracle B2B software into the existing Oracle Infrastructure and Oracle SOA Suite Oracle home.	See Installing the Oracle B2B and SOA Suite for Healthcare Integration Software .	Select B2B on the Installation Type screen.

Table A-1 (Cont.) Overview of the Installation and Configuration Steps for Oracle SOA Suite, B2B, and Business Activity Monitoring

Task	Description	More Information	Special Instructions
Create a WebLogic domain	Use the configuration wizard to create and configure the WebLogic domain. Ensure that you select the appropriate options on the configuration screens.	See Configuring Oracle B2B Domain .	Follow the instructions provided for specific screens in Table A-2 .
Start the servers	Once you complete the domain creation, start the administration and managed servers.	See Starting the Servers .	None.
Verify the configuration	Verify to ensure that the domain is configured properly.	See Verifying the Configuration .	None.
Next steps after installing and configuring Oracle B2B.	You can perform administrative as well as management tasks for the domain that you have just configured.	See Next Steps After Configuring the Domain .	None.

Configuration Options to Select for Oracle SOA Suite, Oracle B2B, and Business Activity Monitoring

Almost all of the screens and options that you must select while configuring Oracle SOA Suite, Oracle B2B, and Business Activity Monitoring are identical to those provided in [Configuring the Domain](#). However, there are a couple of screens on which you must select different options, and [Table A-2](#) lists the key screens and options. Ensure that you select the configuration options as provided in this section.

Table A-2 Key Screens and Configuration Options for Oracle SOA Suite, Oracle B2B, and Business Activity Monitoring Topology

Screen	Description
Templates	This screen appears after you start the configuration wizard to create your domain. In addition to the templates listed in Selecting the Configuration Templates for Oracle B2B , select Business Activity Monitoring - 12.2.1.3.0 [soa] .

Table A-2 (Cont.) Key Screens and Configuration Options for Oracle SOA Suite, Oracle B2B, and Business Activity Monitoring Topology

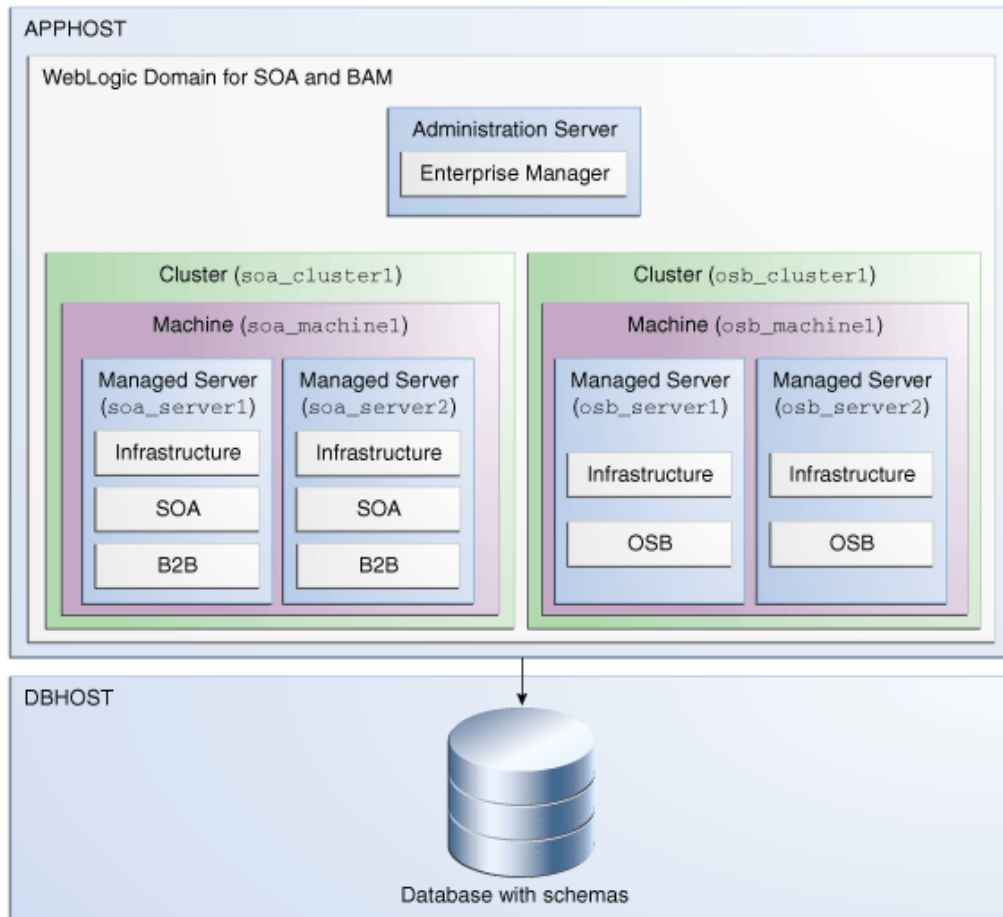
Screen	Description
Managed Servers	<p>On this screen, two managed servers are created: <code>bam_server1</code> and <code>soa_server1</code>, are created. Click Add and create two more managed servers: <code>bam_server2</code> and <code>soa_server2</code>.</p> <p>Ensure that in the Listen Address drop-down list, you select the IP address of the host on which the Managed Server will reside. Do not use All Local Addresses.</p> <p>In the Server Groups drop-down list, ensure that <code>soa_server1</code> and <code>soa_server2</code> are targeted to SOA-MGD-SVRS and <code>bam_server1</code> and <code>bam_server2</code> to BAM 12-MGD-SVRS-ONLY.</p>
Clusters	<p>On this screen, create two clusters: <code>soa_cluster1</code> and <code>bam_cluster1</code>.</p>
Assign Servers to Clusters	<p>On this screen, assign the servers as follows:</p> <ul style="list-style-type: none"> • <code>bam_server1</code> and <code>bam_server2</code> to <code>bam_cluster1</code> • <code>soa_server1</code> and <code>soa_server2</code> to <code>soa_cluster1</code>
Machines	<p>On this screen, create two machines: <code>bam_machine1</code> and <code>soa_machine1</code>.</p>
Assign Servers to Machine	<p>On this screen, assign the servers as follows:</p> <ul style="list-style-type: none"> • AdminServer, <code>bam_server1</code>, and <code>bam_server2</code> to <code>bam_machine1</code>. • <code>soa_server1</code> and <code>soa_server2</code> to <code>soa_machine1</code>.

Oracle SOA Suite, Oracle B2B, and Oracle Service Bus Topology

Use this topology to implement Oracle Service Bus in your Oracle B2B domain.

The Oracle Service Bus software is targeted to its own cluster; this ensures that there is no resource contention between the Oracle B2B and Oracle Service Bus software.

Figure A-2 Roadmap for Installing and Configuring the Oracle SOA Suite, B2B, and Oracle Service Bus Topology



The following table describes the roadmap needed to configure this topology on your system.

Table A-3 Overview of the Installation and Configuration Steps for Oracle SOA Suite, B2B, and Oracle Service Bus Topology

Task	Description	More Information	Special Instructions
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 .	None.

Table A-3 (Cont.) Overview of the Installation and Configuration Steps for Oracle SOA Suite, B2B, and Oracle Service Bus Topology

Task	Description	More Information	Special Instructions
Obtain the appropriate distribution	Oracle B2B requires and existing Oracle SOA Suite and Oracle Fusion Middleware Infrastructure installation. You must install B2B in the same Oracle home as Oracle Fusion Middleware Infrastructure, Oracle SOA Suite, and Oracle Service Bus.	See About Product Distributions .	You must obtain all distributions of Oracle Infrastructure, Oracle SOA Suite and Business Process Management, and Oracle Service Bus.
Determine your installation directories	Verify that the directories that will need to be created can be created or accessed by the installer, and exist on systems that meet the minimum requirements.	See <i>What Are the Key Oracle Fusion Middleware Directories?</i> in <i>Understanding Oracle Fusion Middleware</i> .	None.
Install Oracle Fusion Middleware Infrastructure	Install Oracle Fusion Middleware Infrastructure to create the Oracle home directory for Oracle SOA Suite and B2B.	See <i>Installing the Infrastructure Software</i> in <i>Installing and Configuring the Oracle Fusion Middleware Infrastructure</i> .	You do not need to configure Oracle Fusion Middleware Infrastructure.
Install Oracle SOA Suite	Install the Oracle SOA Suite software into the existing Oracle Infrastructure Oracle home.	See <i>Installing the Oracle SOA Suite and Oracle Business Process Management Software</i> in <i>Installing and Configuring Oracle SOA Suite and Business Process Management</i> .	You do not need to configure Oracle SOA Suite.
Install Oracle Service Bus	Install the Oracle Service Bus software into the existing Oracle Infrastructure and Oracle SOA Suite home.	See <i>Installing the Oracle Service Bus Software</i> in <i>Installing and Configuring Oracle Service Bus</i> .	You do not need to configure Oracle Service Bus.
Install Oracle B2B	Install the Oracle B2B software into the existing Oracle Infrastructure and Oracle SOA Suite Oracle home.	See Installing the Oracle B2B and SOA Suite for Healthcare Integration Software .	Select B2B on the Installation Type screen.

Table A-3 (Cont.) Overview of the Installation and Configuration Steps for Oracle SOA Suite, B2B, and Oracle Service Bus Topology

Task	Description	More Information	Special Instructions
Create a WebLogic domain	Use the configuration wizard to create and configure the WebLogic domain. Ensure that you select the appropriate options on the configuration screens.	See Configuring Oracle B2B Domain .	Follow the instructions provided for specific screens in Table A-4 .
Start the servers	Once you complete the domain creation, start the administration and managed servers.	See Starting the Servers .	None.
Verify the configuration	Verify to ensure that the domain is configured properly.	See Verifying the Configuration .	None.
Next steps after installing and configuring Oracle B2B.	You can perform administrative as well as management tasks for the domain that you have just configured.	See Next Steps After Configuring the Domain .	None.

Configuration Options to Select for Oracle SOA Suite, Oracle B2B, and Oracle Service Bus

Almost all of the screens and options that you must select while configuring Oracle SOA Suite, Oracle B2B, and Oracle Service Bus are identical to those provided in [Configuring the Domain](#). However, there are a couple of screens on which you must select different options, and [Table A-2](#) lists the key screens and options. Ensure that you select the configuration options provided here.

Table A-4 Key Screens and Configuration Options for Oracle SOA Suite, Oracle B2B, and Business Activity Monitoring Topology

Screen	Description
Templates	This screen appears after you start the configuration wizard to create your domain. In addition to the templates listed in Selecting the Configuration Templates for Oracle B2B , select Oracle Service Bus - 12.2.1.3.0 [soa] .

Table A-4 (Cont.) Key Screens and Configuration Options for Oracle SOA Suite, Oracle B2B, and Business Activity Monitoring Topology

Screen	Description
Managed Servers	<p>On this screen, two managed server are created: <code>osb_server1</code> and <code>soa_server1</code>. Click Add and create two more managed servers: <code>osb_server2</code> and <code>soa_server2</code>.</p> <p>Ensure that in the Listen Address drop-down list, you select the IP address of the host on which the Managed Server will reside. Do not use All Local Addresses.</p> <p>In the Server Groups drop-down list, ensure that <code>soa_server1</code> and <code>soa_server2</code> are targeted to SOA-MGD-SVRS and <code>osb_server1</code> and <code>osb_server2</code> to OSB 12-MGD-SVRS-ONLY.</p>
Clusters	<p>On this screen, create two clusters: <code>soa_cluster1</code> and <code>osb_cluster1</code>.</p>
Assign Servers to Clusters	<p>On this screen, assign the servers as follows:</p> <ul style="list-style-type: none"> • <code>osb_server1</code> and <code>osb_server2</code> to <code>osb_cluster1</code> • <code>soa_server1</code> and <code>soa_server2</code> to <code>soa_cluster1</code>
Machines	<p>On this screen, create two machines: <code>osb_machine1</code> and <code>soa_machine1</code>.</p>
Assign Servers to Machine	<p>On this screen, assign the servers as follows:</p> <ul style="list-style-type: none"> • AdminServer, <code>osb_server1</code>, and <code>osb_server2</code> to <code>osb_machine1</code>. • <code>soa_server1</code> and <code>soa_server2</code> to <code>soa_machine1</code>.

B

Updating the JDK After Installing and Configuring an Oracle Fusion Middleware Product

Consider that you have a JDK version `jdk1.8.0_121` installed on your machine. When you install and configure an Oracle Fusion Middleware product, the utilities, such as Configuration Wizard (`config.sh|exe`), OPatch, or RCU point to a default JDK, for example, `jdk1.8.0_121`. After some time, Oracle releases a new version of the JDK, say `jdk1.8.0_131` that carries security enhancements and bug fixes. From 12c (12.2.1.3.0) onwards, you can upgrade the existing JDK to a newer version, and can have the complete product stack point to the newer version of the JDK.

You can maintain multiple versions of JDK and switch to the required version on need basis.

- [About Updating the JDK Location After Installing an Oracle Fusion Middleware Product](#)

The binaries and other metadata and utility scripts in the Oracle home and Domain home, such as RCU or Configuration Wizard, use a JDK version that was used while installing the software and continue to refer to the same version of the JDK. The JDK path is stored in a variable called `JAVA_HOME` which is centrally located in `.globalEnv.properties` file inside the `ORACLE_HOME/oui` directory.

About Updating the JDK Location After Installing an Oracle Fusion Middleware Product

The binaries and other metadata and utility scripts in the Oracle home and Domain home, such as RCU or Configuration Wizard, use a JDK version that was used while installing the software and continue to refer to the same version of the JDK. The JDK path is stored in a variable called `JAVA_HOME` which is centrally located in `.globalEnv.properties` file inside the `ORACLE_HOME/oui` directory.

The utility scripts such as `config.sh|cmd`, `launch.sh`, or `opatch` reside in the `ORACLE_HOME`, and when you invoke them, they refer to the `JAVA_HOME` variable located in `.globalEnv.properties` file. To point these scripts and utilities to the newer version of JDK, you must update the value of the `JAVA_HOME` variable in the `.globalEnv.properties` file by following the directions listed in [Updating the JDK Location in an Existing Oracle Home](#).

To make the scripts and files in your Domain home directory point to the newer version of the JDK, you can follow one of the following approaches:

- Specify the path to the newer JDK on the Domain Mode and JDK screen while running the Configuration Wizard.

For example, consider that you installed Oracle Fusion Middleware Infrastructure with the JDK version `8u121`. So while configuring the WebLogic domain with the Configuration Assistant, you can select the path to the newer JDK on the Domain

Mode and JDK screen of the Configuration Wizard. Example: `/scratch/jdk/jdk1.8.0_131`.

- Manually locate the files that have references to the JDK using `grep` (UNIX) or `findstr` (Windows) commands and update each reference. See [Updating the JDK Location in an Existing Domain Home](#).

Note:

If you install the newer version of the JDK in the same location as the existing JDK by overwriting the files, then you don't need to take any action.

- [Updating the JDK Location in an Existing Oracle Home](#)
The `getProperty.sh|cmd` script displays the value of a variable, such as `JAVA_HOME`, from the `.globalEnv.properties` file. The `setProperty.sh|cmd` script is used to set the value of variables, such as `OLD_JAVA_HOME` or `JAVA_HOME` that contain the locations of old and new JDKs in the `.globalEnv.properties` file.
- [Updating the JDK Location in an Existing Domain Home](#)
You must search the references to the current JDK, for example `jdk1.8.0_121` manually, and replace those instances with the location of the new JDK.

Updating the JDK Location in an Existing Oracle Home

The `getProperty.sh|cmd` script displays the value of a variable, such as `JAVA_HOME`, from the `.globalEnv.properties` file. The `setProperty.sh|cmd` script is used to set the value of variables, such as `OLD_JAVA_HOME` or `JAVA_HOME` that contain the locations of old and new JDKs in the `.globalEnv.properties` file.

The `getProperty.sh|cmd` and `setProperty.sh|cmd` scripts are located in the following location:

(UNIX) `ORACLE_HOME/oui/bin`

(Windows) `ORACLE_HOME\oui\bin`

Where, `ORACLE_HOME` is the directory that contains the products using the current version of the JDK, such as `jdk1.8.0_121`.

To update the JDK location in the `.globalEnv.properties` file:

1. Use the `getProperty.sh|cmd` script to display the path of the current JDK from the `JAVA_HOME` variable. For example:

(UNIX) `ORACLE_HOME/oui/bin/getProperty.sh JAVA_HOME`

(Windows) `ORACLE_HOME\oui\bin\getProperty.cmd JAVA_HOME`

`echo JAVA_HOME`

Where `JAVA_HOME` is the variable in the `.globalEnv.properties` file that contains the location of the JDK.

2. Back up the path of the current JDK to another variable such as `OLD_JAVA_HOME` in the `.globalEnv.properties` file by entering the following commands:

(UNIX) `ORACLE_HOME/oui/bin/setProperty.sh -name OLD_JAVA_HOME -value specify_the_path_of_current_JDK`

(Windows) `ORACLE_HOME\oui\bin\setProperty.cmd -name OLD_JAVA_HOME -value specify_the_path_of_current_JDK`

This command creates a new variable called `OLD_JAVA_HOME` in the `.globalEnv.properties` file, with a value that you have specified.

3. Set the new location of the JDK in the `JAVA_HOME` variable of the `.globalEnv.properties` file, by entering the following commands:

```
(UNIX) ORACLE_HOME/oui/bin/setProperty.sh -name JAVA_HOME -  
value specify_the_location_of_new_JDK  
(Windows) ORACLE_HOME\oui\bin\setProperty.cmd -name JAVA_HOME  
-value specify_the_location_of_new_JDK
```

After you run this command, the `JAVA_HOME` variable in the `.globalEnv.properties` file now contains the path to the new JDK, such as `jdk1.8.0_131`.

Updating the JDK Location in an Existing Domain Home

You must search the references to the current JDK, for example `jdk1.8.0_121` manually, and replace those instances with the location of the new JDK.

You can use the `grep` (UNIX) or `findstr` (Windows) commands to search for the `jdk`-related references.

You'll likely be required to update the location of JDK in the following three files:

```
(UNIX) DOMAIN_HOME/bin/setNMJavaHome.sh  
(Windows) DOMAIN_HOME\bin\setNMJavaHome.cmd
```

```
(UNIX) DOMAIN_HOME/nodemanager/nodemanager.properties  
(Windows) DOMAIN_HOME\nodemanager\nodemanager.properties
```

```
(UNIX) DOMAIN_HOME/bin/setDomainEnv.sh  
(Windows) DOMAIN_HOME\bin\setDomainEnv.cmd
```