Oracle® Banking Digital Experience

Installer Pre-Requisite Setup Guide

Innovation Release 25.1.2.0.0
G51758-01
April 2026

ORACLE

Oracle Banking Digital Experience Installer Pre-Requisite Setup Guide, Innovation Release 25.1.2.0.0

G51758-01

Contents

Preface

Purpose

This guide is designed to help acquaint you with the Oracle Banking application. This guide provides answers to specific features and procedures that the user need to be aware of the module to function successfully.

Audience

This document is intended for the following audience:

- Customers
- Partners

Documentation Accessibility

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

Access to Oracle Support

Oracle customer access to and use of Oracle support services will be pursuant to the terms and conditions specified in their Oracle order for the applicable services.

Critical Patches

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at Critical Patches, Security Alerts and Bulletins. All critical patches should be applied in a timely manner to ensure effective security, as strongly recommended by Oracle Software Security Assurance.

Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Related Resources

For more information on any related features, refer to the following documents:

- Oracle Banking Digital Experience Cloud Service Licensing Manuals

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	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 Introduction

This guide helps you to do the pre-requisite setup required before the execution of OBDX 25.1.1.0.0 Installer.

The details about each task are explained in following sections:

- Software List
  This topic provides information on **Software List**.
- Pre-requisite Software Installation and OS Configuration for OBDX Installer
  This topic describes the systematic instruction to **Pre-requisite Software Installation and OS Configuration for OBDX Installer** option.
- Python 3.11.0 installation on Linux Operating System
  This topic provides information on **Python 3.11.0 installation on Linux Operating System**.

1.1 Software List

This topic provides information on **Software List**.

Table 1-1 Software List

Software Name	Version	Mandatory Software
Operating System	ORACLE LINUX 8.7	Y
Oracle Database	19.26.0.0.0	Y
Oracle Java Development Kit	17.0.12+	Y
Oracle Weblogic Server	14.1.2.0.0	Y
Any HTTP Server	NA	Y
Oracle Digital Assistant (ODA)	20.05	N***
Python	3.11.9	Y****
Python Package: cx_Oracle	8.3.0	Y*****
Python Package: urwid	2.6.14	Y
Sqlcl	25.1.1.113.2054	Y******
Gradle	8.3.0	Y

* Required if OBDX Native Authentication is not used and OAM is managing Authentication.

** Required if Integration with Oracle Analytics Publisher is needed.

*** Required if OBDX Chat bot Banking Features are used.

**** For python 3 installation, refer section **1.2 Pre-requisite software installation and OS configuration for OBDX Installer – Python 3.11.9 for Linux Operating System**.

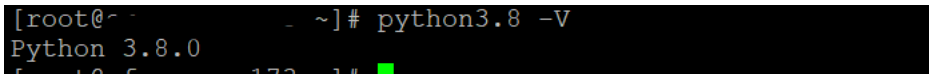
***** In case of python 3 cx_Oracle needs to be re-installed.

****** Required for database files execution.

1.2 Pre-requisite Software Installation and OS Configuration for OBDX Installer

This topic describes the systematic instruction to **Pre-requisite Software Installation and OS Configuration for OBDX Installer** option.

Below steps assume Python 3.11.x is installed and available on server. User can verify the Python version by executing the command as shown below:



> **Note**
>
> Below steps require root login on server where OBDX software pre-requisite are performed (i.e. Server which host Oracle Weblogic).

SQLCL Installation

Download the sqlcl version 25.1.1.113.2054 zip file from Oracle site.

Follow the documentation available at the site for the installation.

Gradle Installation

Download the gradle zip file from the gradle site.

Unzip the downloaded zip file into the desire path.

Example :

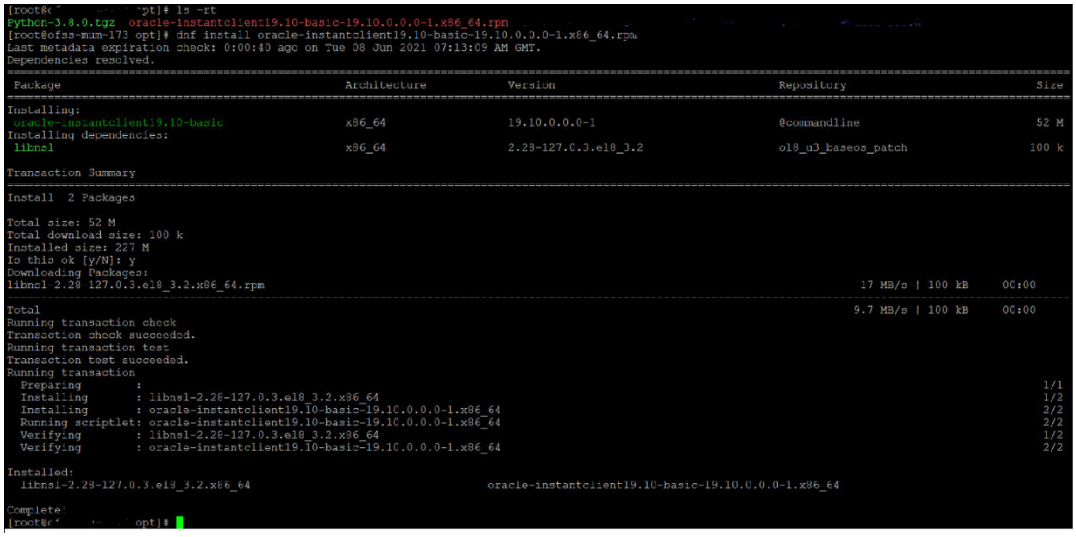
```
cd /home/obdxuser
unzip gradle-8.3-bin.zip
        GRADLE_HOME=/home/obdxuser/gradle-8.3
```

cx_Oracle (Software Installation)

1. Oracle Instant Client.
   Download oracle-instantclient19.10-basic-19.10.0.0.0-1.x86_64.rpm from site
   https://yum.oracle.com/repo/OracleLinux/OL7/oracle/instantclient/x86_64/getPackage/oracle-instantclient19.10-

   Run the below command.

   ```
   dnf install oracle-instantclient19.10-basic-19.10.0.0.0-1.x86_64.rpm
   ```



2. Install cx_Oracle.
   a. Download cx_Oracle from cx_Oracle (or cx-oracle org) website.
   b. Extract the tar file as shown below:

```
bash-4.2# tar -xvf urwid-2.1.2.tar.gz
urwid-2.1.2/
urwid-2.1.2/COPYING
urwid-2.1.2/MANIFEST.in
urwid-2.1.2/PKG-INFO
urwid-2.1.2/README.rst
urwid-2.1.2/docs/
urwid-2.1.2/docs/Makefile
urwid-2.1.2/docs/changelog.rst
urwid-2.1.2/docs/conf.py
urwid-2.1.2/docs/examples/
urwid-2.1.2/docs/examples/bigtext.py
urwid-2.1.2/docs/examples/bigtext.py.xdotool
```

   c. Browse into the extracted directory and run below command.

```
python3.11 setup.py build_py
```

```
[devops@obdxwls /]$ python3.11 setup.py build_py
running build_py
```

   d. Execute below command to perform Urwid installation.

```
python3.11 setup.py install
```

```
[devops@obdxwls /]$ python3.11 setup.py install
running install
running bdist_egg
running egg_info
writing cx_Oracle.egg-info/PKG-INFO
writing dependency_links to cx_Oracle.egg-info/dependency_links.txt
writing top-level names to cx_Oracle.egg-info/top_level.txt
reading manifest template 'MANIFEST.in'
no previously-included directories found matching 'odpi/test'
no previously-included directories found matching 'odpi/samples'
writing manifest file 'cx_Oracle.egg-info/SOURCES.txt'
installing library code to build/bdist.linux-x86_64/egg
running install_lib
running build_ext
building 'cx_Oracle' extension
```

> **Note**
>
> Or user can install cx_oracle from step mention in section **Python 3.11.0 installation on Linux Operating System** below step 2.

Urwid (Software Installation)

1. Download Urwid from Urwid (or urwid.org) website.

> **Note**
>
> Support version for Urwid is 2.6.14 (urwid-2.6.14.tar.gz).

2. Extract the tar file as shown below:

```
[devops@obdxwls ~]$ tar -xvf urwid-2.6.14.tar.gz
urwid-2.6.14/
urwid-2.6.14/COPYING
urwid-2.6.14/MANIFEST.in
urwid-2.6.14/PKG-INFO
urwid-2.6.14/README.rst
urwid-2.6.14/docs/
urwid-2.6.14/docs/Makefile
urwid-2.6.14/docs/changelog.rst
urwid-2.6.14/docs/conf.py
urwid-2.6.14/docs/examples/
urwid-2.6.14/docs/examples/bigtext.py
urwid-2.6.14/docs/examples/bigtext.py.xdotool
```

3. Browse into the extracted directory and run below command.

```
# python3.11 setup.py build_py
```

```
[devops@obdxwls ~]$ python3.11 setup.py build_py
running build_py
creating build
creating build/lib.linux-x86_64-3.11
creating build/lib.linux-x86_64-3.11/urwid
copying urwid/__init__.py -> build/lib.linux-x86_64-3.11/urwid
copying urwid/_async_kw_event_loop.py -> build/lib.linux-x86_64-3.11/urwid
copying urwid/canvas.py -> build/lib.linux-x86_64-3.11/urwid
copying urwid/command_map.py -> build/lib.linux-x86_64-3.11/urwid
copying urwid/compat.py -> build/lib.linux-x86_64-3.11/urwid
copying urwid/container.py -> build/lib.linux-x86_64-3.11/urwid
copying urwid/curses_display.py -> build/lib.linux-x86_64-3.11/urwid
copying urwid/decoration.py -> build/lib.linux-x86_64-3.11/urwid
copying urwid/display_common.py -> build/lib.linux-x86_64-3.11/urwid
copying urwid/escape.py -> build/lib.linux-x86_64-3.11/urwid
copying urwid/font.py -> build/lib.linux-x86_64-3.11/urwid
```

> **Note**
>
> Ensure Python 3.11.0 version should be available in PATH variable. Above execution should be done using Python 3.11.0.

4. Execute below command to perform Urwid installation.

```
# python3.11 setup.py install
```

```
[devops@obdxwls ~]$ python3.11 setup.py install
running install
running bdist_egg
running egg_info
writing urwid.egg-info/PKG-INFO
writing dependency_links to urwid.egg-info/dependency_links.txt
writing top-level names to urwid.egg-info/top_level.txt
reading manifest file 'urwid.egg-info/SOURCES.txt'
reading manifest template 'MANIFEST.in'
warning: no files found matching 'CHANGELOG'
writing manifest file 'urwid.egg-info/SOURCES.txt'
installing library code to build/bdist.linux-x86_64/egg
```

> **Note**
>
> Or user can install urwid from section **Python 3.11.0 installation on Linux Operating System** below step 2 Ensure Python 3.11.0 version should be available in PATH variable. Above execution should be done using Python 3.11.0.

1.3 Python 3.11.0 installation on Linux Operating System

This topic provides information on **Python 3.11.0 installation on Linux Operating System**.

1. Execute below commands to install the python 3.11.0.

```
dnf groupinstall 'development tools'
dnf install bzip2-devel expat-devel gdbm-devel ncurses-devel openssl-devel
readline-devel
wget sqlite-devel tk-devel xz-devel zlib-devel libffi-devel
wget https://www.python.org/ftp/python/3.11.0/Python-3.11.0.tgz
tar -xzvf Python-3.11.0.tgz
cd Python-3.11.0.
/configure --enable-optimizations
make altinstall
python3.11 –version
```

```
[devops@obdxwls ~]$ python3.11 -V
Python 3.11.9
```

2. Once above steps are executed successfully install the following required modules.

```
pip3.11 install cx-Oracle==8.3.0
pip3.11 install urwid==2.1.2
```

limits.conf (OS Configuration)

Ensure the nofile resource limit is set 10240 or higher for the user which would execute the OBDX Installer.

2

Installing and Configuring Weblogic Server 14.1.2

This topic provides information on **Installing and Configuring Weblogic Server 14.1.2**.

This topic describes the steps for installing the Weblogic Server version 14.1.2.0.0:

- Section **"Installing Stand-alone Weblogic"**.
- Installing Stand-alone Weblogic Server
  This topic provides information on **Installing Stand-alone Weblogic Server**.

2.1 Installing Stand-alone Weblogic Server

This topic provides information on **Installing Stand-alone Weblogic Server**.

Oracle WebLogic Server is a scalable, enterprise-ready Java Platform, Enterprise Edition (Java EE) application server. The WebLogic Server supports the deployment of many types of distributed applications.

This topic describes the installation tasks which contains the following sections:

- Section **Installing Java 171.0.12**.
- Section **Installing Weblogic Server**.
- Section **Verifying the Installation**.
- **Setting Up Installer**.
- Installing Java 17.0.12
  This topic provides information on **Installing Java 17.0.12**.
- Installing Weblogic Server
  This topic describes the systematic instruction to **Installing Weblogic Server** option.
- Verifying Installation
  This topic provides information on **Verifying Installation**.

2.1.1 Installing Java 17.0.12

This topic provides information on **Installing Java 17.0.12**.

- Obtain the Java tarball pack from the Oracle Java Downloads. Download **jdk-171.0.12_linux-x64_bin.tar.gz** file to a directory.
- Change the directory in which you want to install,

  ```
  cd <Directory_Path>
  ```

- Unpack the tarball and install Java using the following command:

  ```
  tar <Path>/jdk-17.0.12_linux-x64_bin.tar.gz
  ```

> **Note**
>
> You must enter the absolute path of the folder where the TAR file is located.

- Now, set the path and environment variable for Java as:

```
export JAVA_HOME=<Java_Install_Path>/jdk-171.0.12
export PATH=$JAVA_HOME/bin:$PATH
```

2.1.2 Installing Weblogic Server

This topic describes the systematic instruction to **Installing Weblogic Server** option.

1. Download the WebLogic Server installation package.

   Obtain the WebLogic Server 14.1.2.0.0 ZIP file from Oracle Downloads. Extract the downloaded ZIP file to obtain the **fmw_14.1.2.0.0_wls.jar** file.

2. Navigate to the directory containing the extracted JAR file.

3. Start the WebLogic installer.

   Run the following command from the same directory:

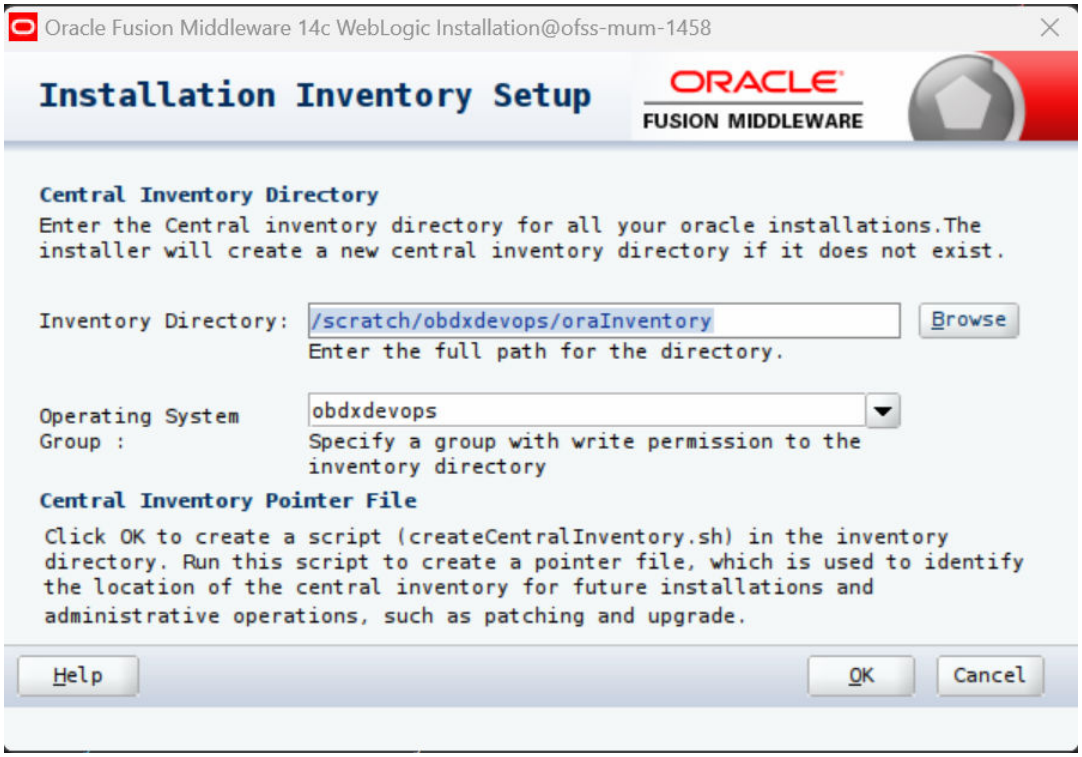
   ```
   java -jar <absolute_path>/fmw_14.1.2.0.0_wls.jar
   ```

> **Note**
>
> User must specify the absolute path of the directory where the JAR file is located.

4. Specify the Oracle Inventory directory (UNIX systems only).

   If this is the first Oracle product installation using Oracle Universal Installer, provide the location of the inventory directory where Oracle maintains installation data.

Figure 2-1 Installation Inventory Setup Screen



5. Specify the Oracle inventory directory and group permissions. Ensure the group has write permissions to this directory.
6. Click **OK**.

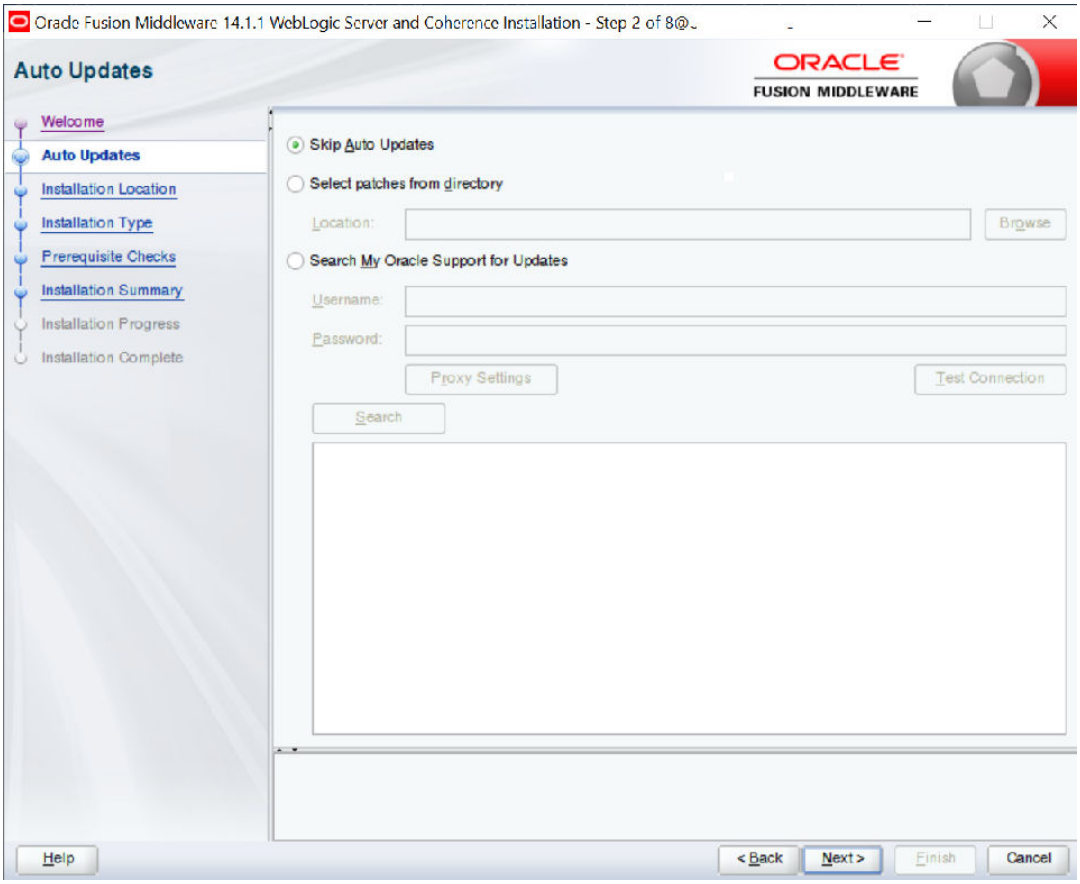
   The **Welcome screen** is displayed.

Figure 2-2 Welcome Screen

7. Click **Next**.

   The **Auto Updates** screen displays.

Figure 2-3 Auto Updates Screen

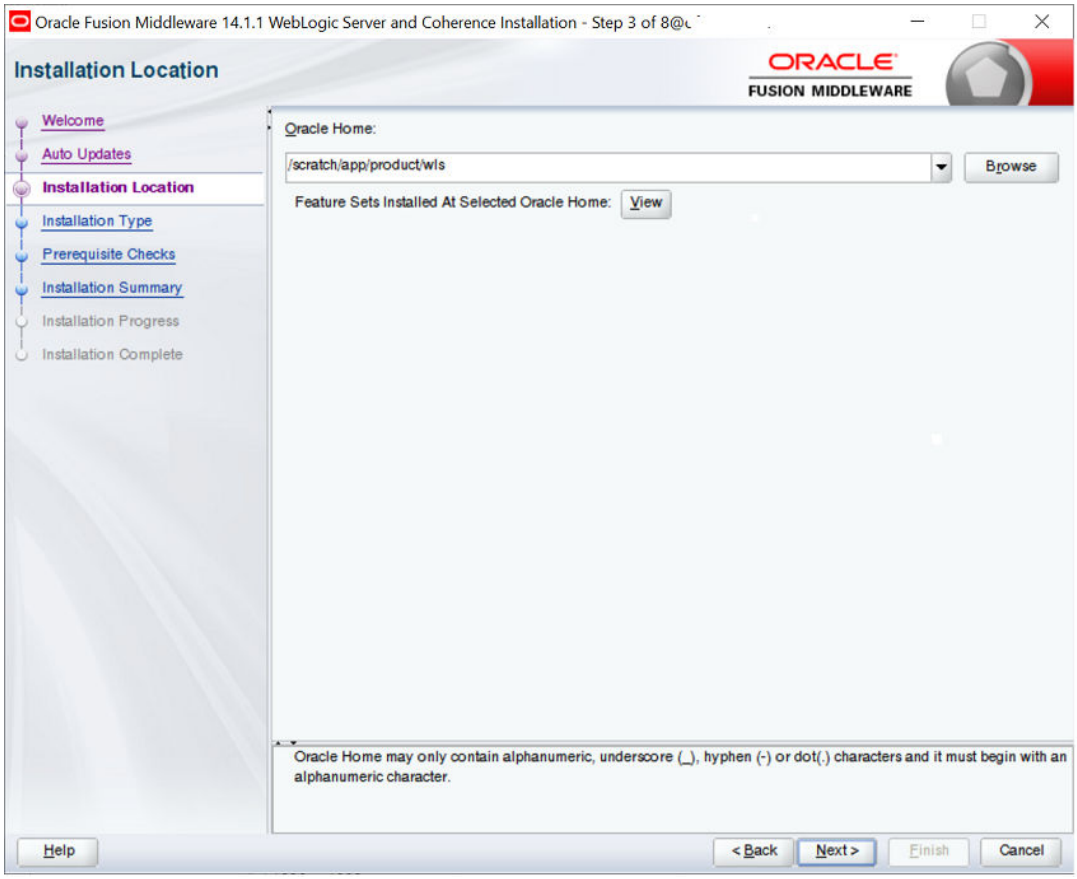


Configure Auto Updates.

8. Select **Skip Auto Updates**. Follow recommended update practices based on your environment.
9. Click **Next**.

   The **Installation Location** screen displays.

Figure 2-4 Specify Installation Location Screen



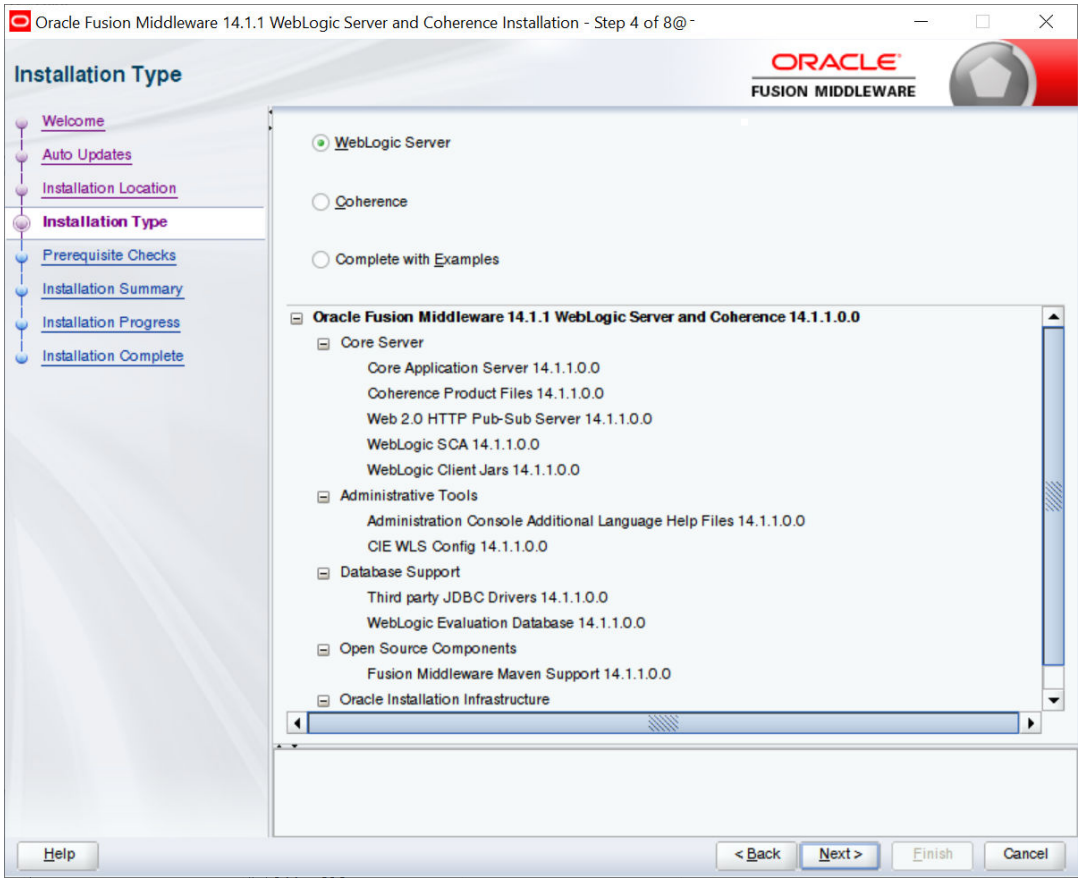
10. Specify the installation location.

    Provide the Oracle Middleware Home location. This must be an absolute path where WebLogic Server will be installed.

11. Click **Next**.

    The **Installation Type** screen displays.

Figure 2-5 Specify Installation Type Screen



12. Select the installation type.

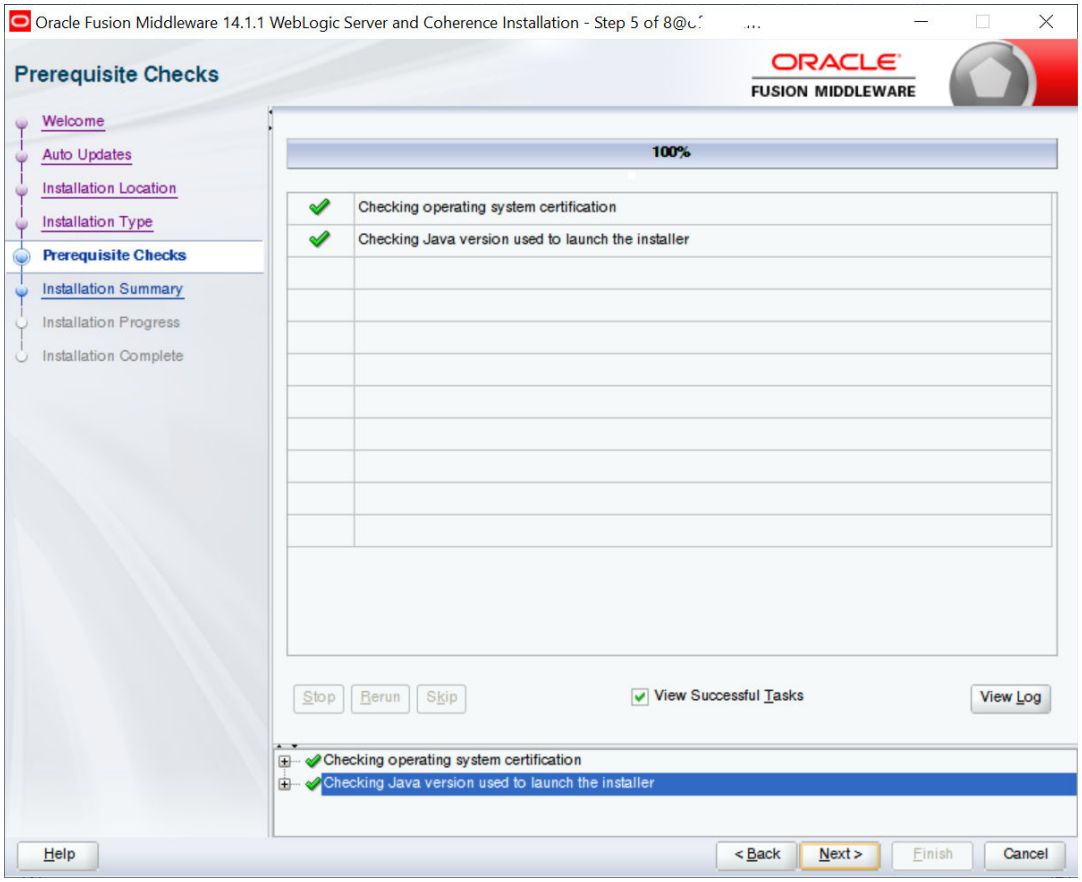
    The available installation types:

    - WebLogic Server
    - Coherence
    - Complete with Examples

13. Select **WebLogic Server** and click **Next**.

    The **Prerequisite Checks** screen displays.

Figure 2-6 Prerequisite Checks



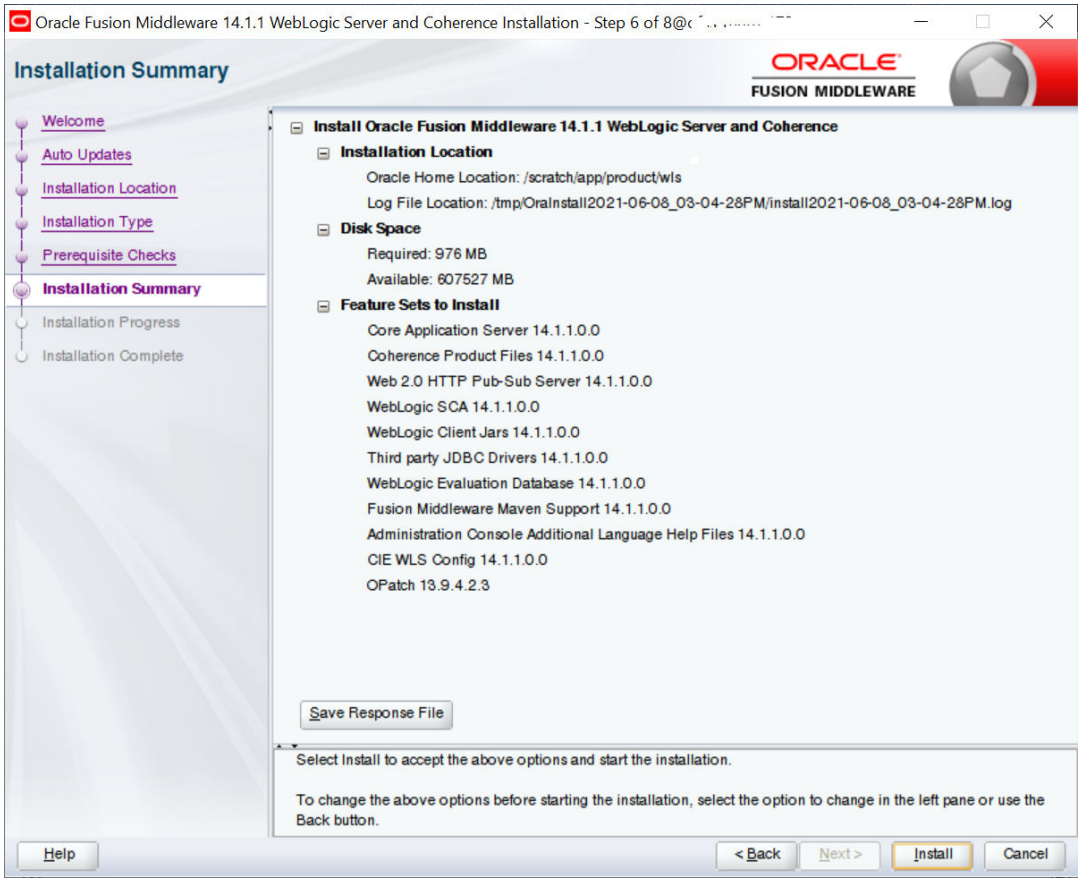
14. Review prerequisite checks.

    Ensure all system requirements are met. If errors are displayed, resolve them and click **Retry**.

15. Click **Next**.

    The **Installation Summary** screen displays.

Figure 2-7 Installation Summary



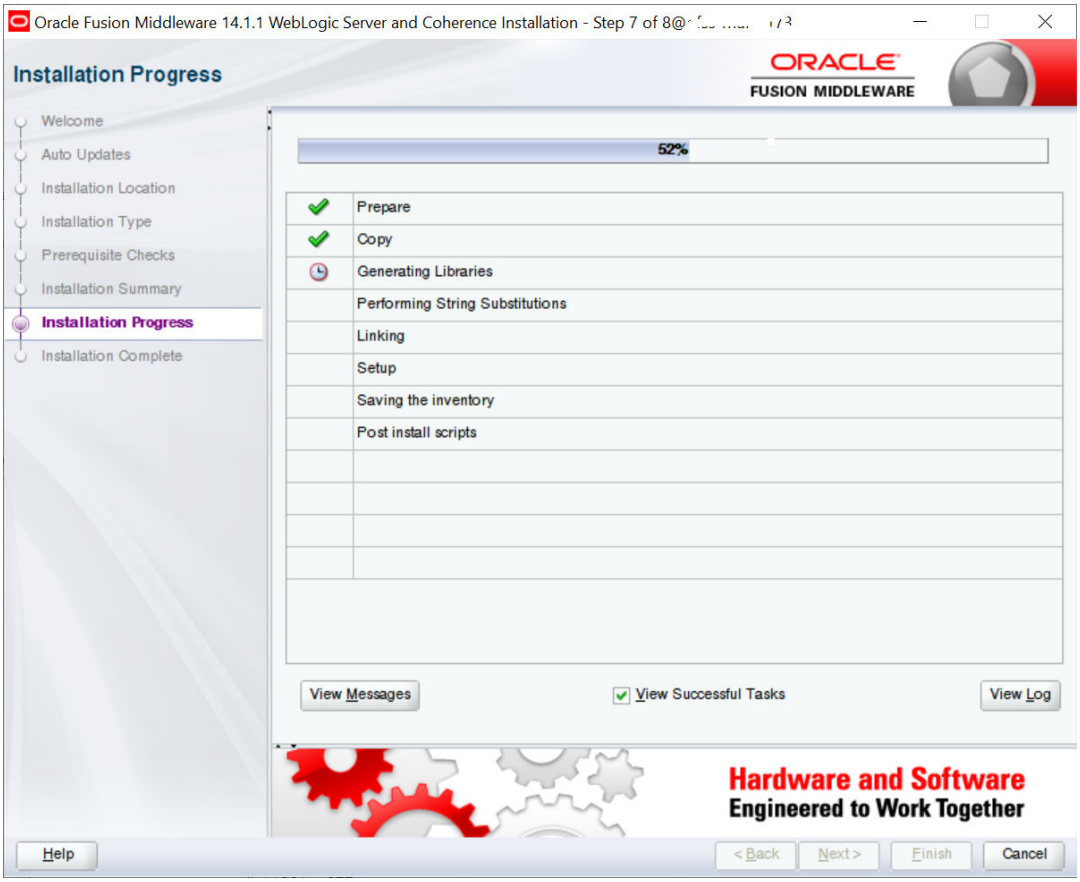
16. Review the installation summary.

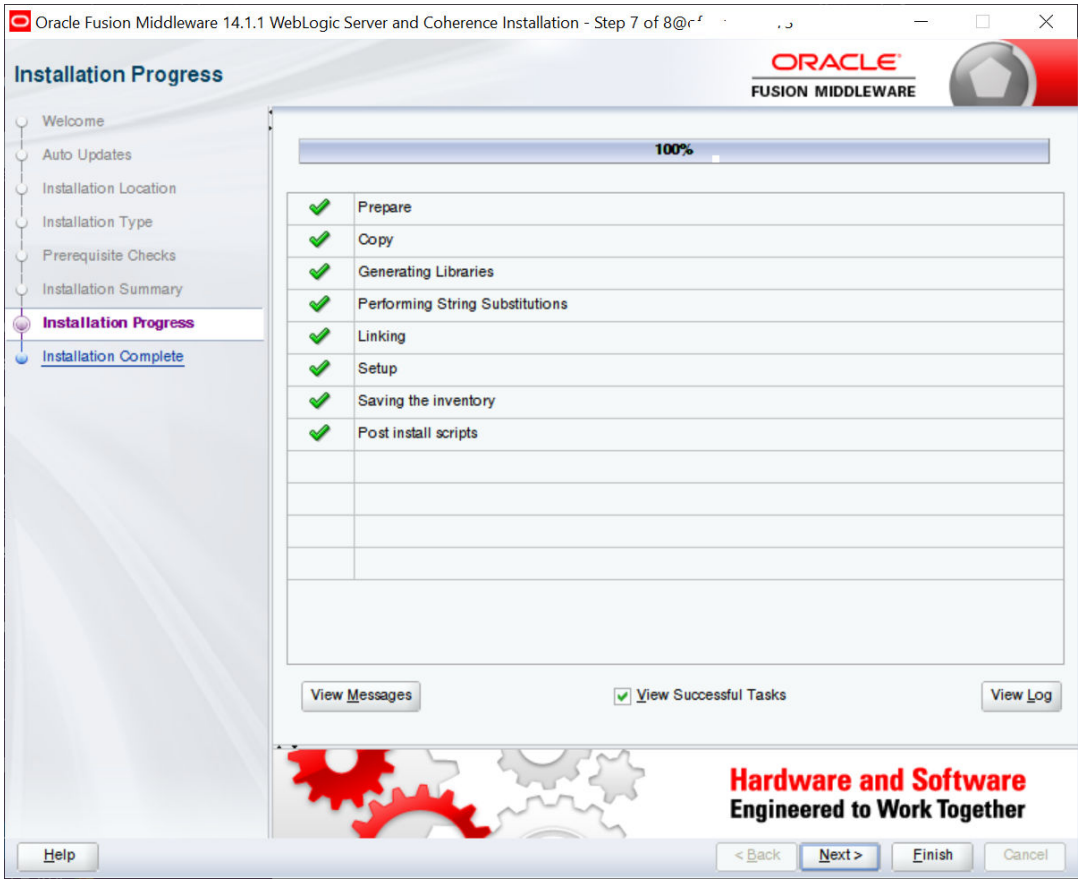
    Review the configuration details. To save the configuration as a response file, click **Save** and specify a file name (for example, `silent_install.rsp`).

17. Click **Install**.

    The **Installation Progress** screen displays.

Figure 2-8 Installation Progress





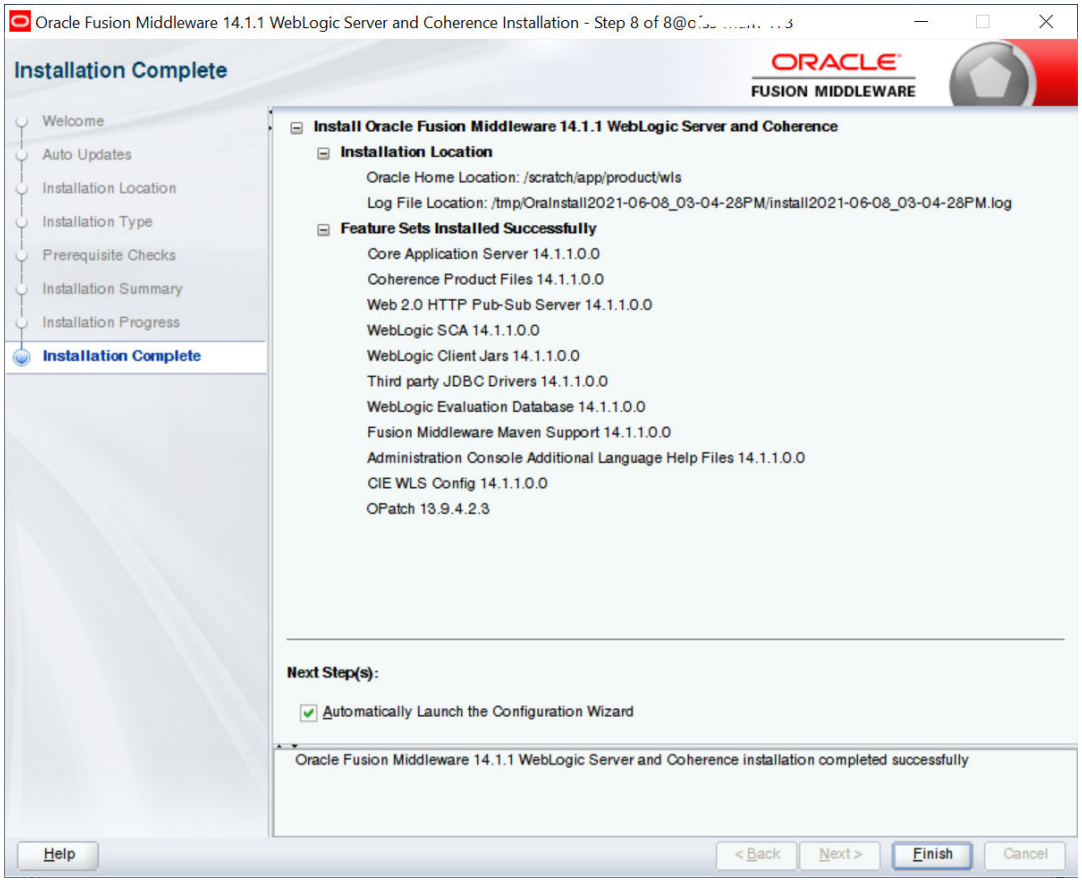
18. Monitor the installation progress.

    The progress screen displays the installation status. To exit before completion, click **Cancel**.

19. Click **Next** after installation completes.

    The **Installation Complete** screen displays.

Figure 2-9 Installation Complete



20. Complete the installation.

    Review the installation summary, including Oracle Home Location and Log File Location.

21. Click **Finish**.

2.1.3 Verifying Installation

This topic provides information on **Verifying Installation**.

User can perform the following tasks to verify that your installation was successful:

- Verifying the Installation Logs: Check for the presence of installation log files in logs directory. The location of the file is shown at the end of installation in the **Installation Complete** screen.
- Verifying the Installation Directory: Check if **Oracle Home** directory is exists or not.

3

Oracle HTTP Server Installation

This topic provides information on **Oracle HTTP Server Installation**.

Oracle Webtier is the Web server component for Oracle Fusion Middleware. The Oracle Web Tier installation gives you the option of installing Oracle HTTP Server and Oracle Web Cache. OPMN is installed, by default, and you do not have the option of deselecting this product.

Together, these products are responsible for managing incoming HTTP requests, caching web messages, and sending XML and HTML back to the client. Also, it provides a listener for Oracle WebLogic Server and the framework for hosting static pages, dynamic pages, and applications over the Web. Oracle Web Tier contains the following components:

- **Oracle HTTP Server:**Oracle HTTP Server (OHS) is an enterprise grade Web Server software - based on open source Apache HTTP Web Server - designed to deliver the following benefits:
  - Deliver HTTP Listener for Oracle WebLogic Server through built-in WebLogic Web Server Proxy Plug-In.
  - Deliver Web Server component for Fusion Middleware.
  - Serve static web content such as HTML, JavaScript, Images etc, and dynamic web content built with CGI/FastCGI based applications.
- **Oracle Web Cache:**Oracle Web Cache is a content-aware server accelerator, or reverse proxy, for the Web tier that improves the performance, scalability, and availability of Web sites that run on Oracle HTTP Server. Oracle Web Cache is the primary caching mechanism provided with Oracle Fusion Middleware. Caching improves the performance, scalability, and availability of websites that run on Oracle WebLogic Server by storing frequently accessed URLs in memory.

There are different Methods to install Webtier. An Oracle Web Tier solution can be built in one of the following ways:

- **In stand-alone mode:** Oracle Web Tier is configured without a domain, and administered from the command line. Refer section **Installing Stand-alone Weblogic Server**for an overview of the installation procedure.
- **Using Oracle Enterprise Manager Fusion Middleware Control:** In order to use the Oracle Enterprise Manager Fusion Middleware Control, WebLogic Server domain needs to be configured using both the Enterprise Manager and the Java Required Files (JRF) domain templates.

Here, we install Oracle Web Tier in stand-alone mode and following are the sections lists the steps for it:

- Section **"Installing and Configuring Oracle HTTP Server (Webtier)"**
- Section **"Verifying the Installation"**
- Installing and Configuring Oracle HTTP Server (OHS)
  This topic describes the systematic instruction to **Installing and Configuring Oracle HTTP Server (OHS)** option.

- Verifying Installation
  This topic provides information on **Verifying Installation**.

3.1 Installing and Configuring Oracle HTTP Server (OHS)

This topic describes the systematic instruction to **Installing and Configuring Oracle HTTP Server (OHS)** option.

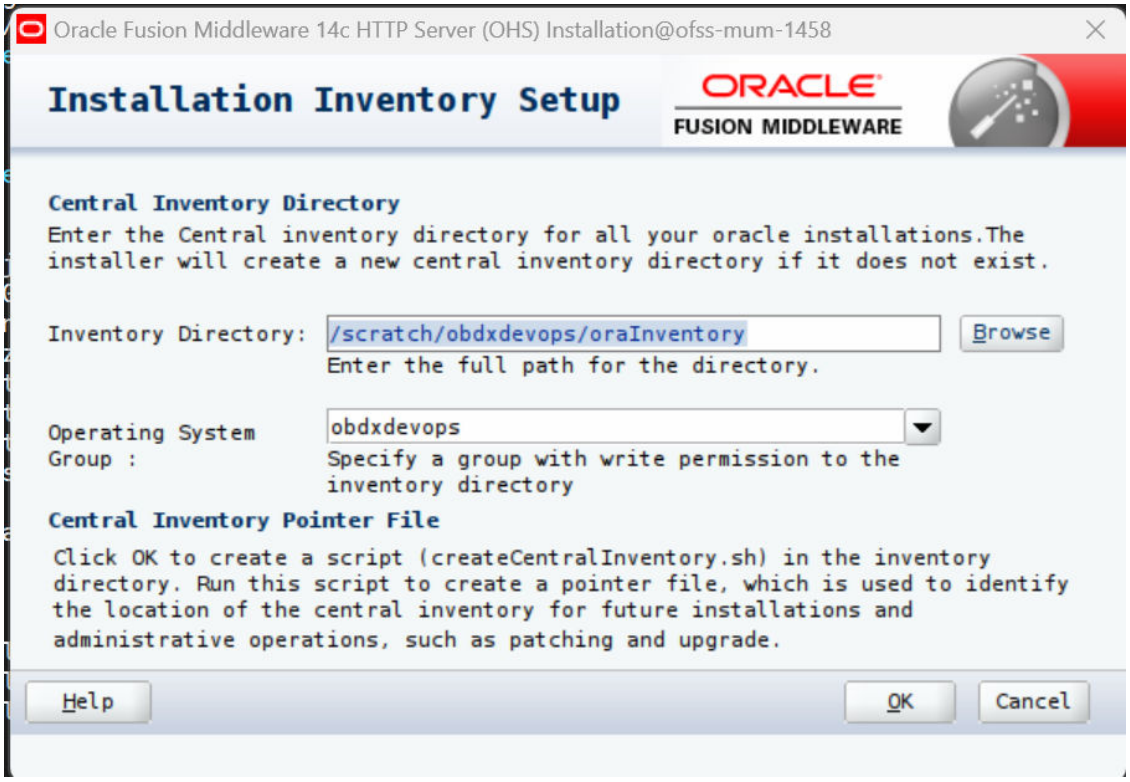
Obtain Oracle Web Tier from the Oracle Fusion Middleware Downloads. Download **webtier.zip** file to a directory, and unpack the downloaded archive that contains the installer.

To start the installer, go to the directory where you unpacked the archive file. Now, start the installer using the below command:

```
./fmw_12.2.1.4.0_ohs_linux64.bin
```

Now, follow the instructions as shown below to **Install Webtier**,

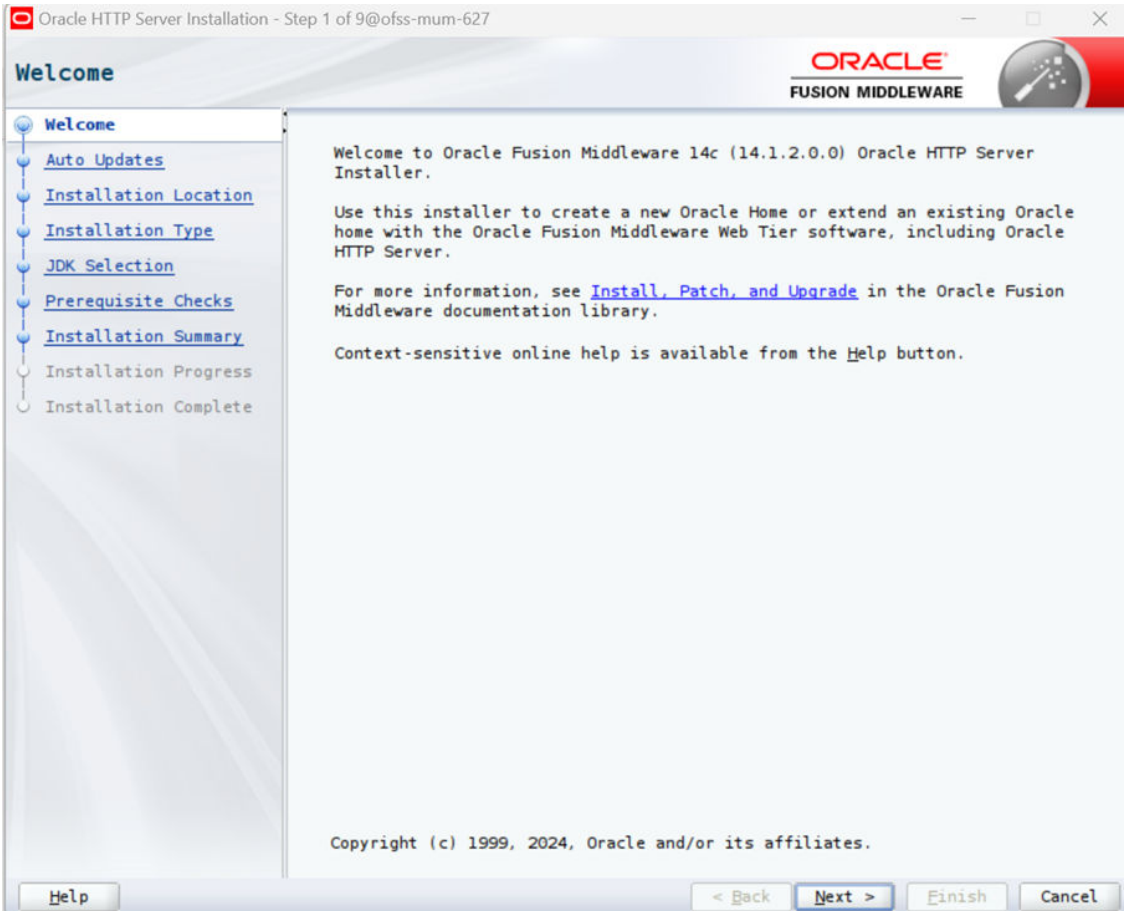
Specify Inventory Directory Screen



This screen appears for UNIX systems only; if this is your first Oracle installation on this host, you must specify the location of the inventory directory. This inventory directory is used by the installer to keep track of all Oracle products installed on the computer. The default inventory location is `USER_HOME/oraInventory`.

In the **Operating System Group Name** field, select the group whose members you want to grant access to the inventory directory; all members of this group will be able to install products on this system. Click **OK** to continue.

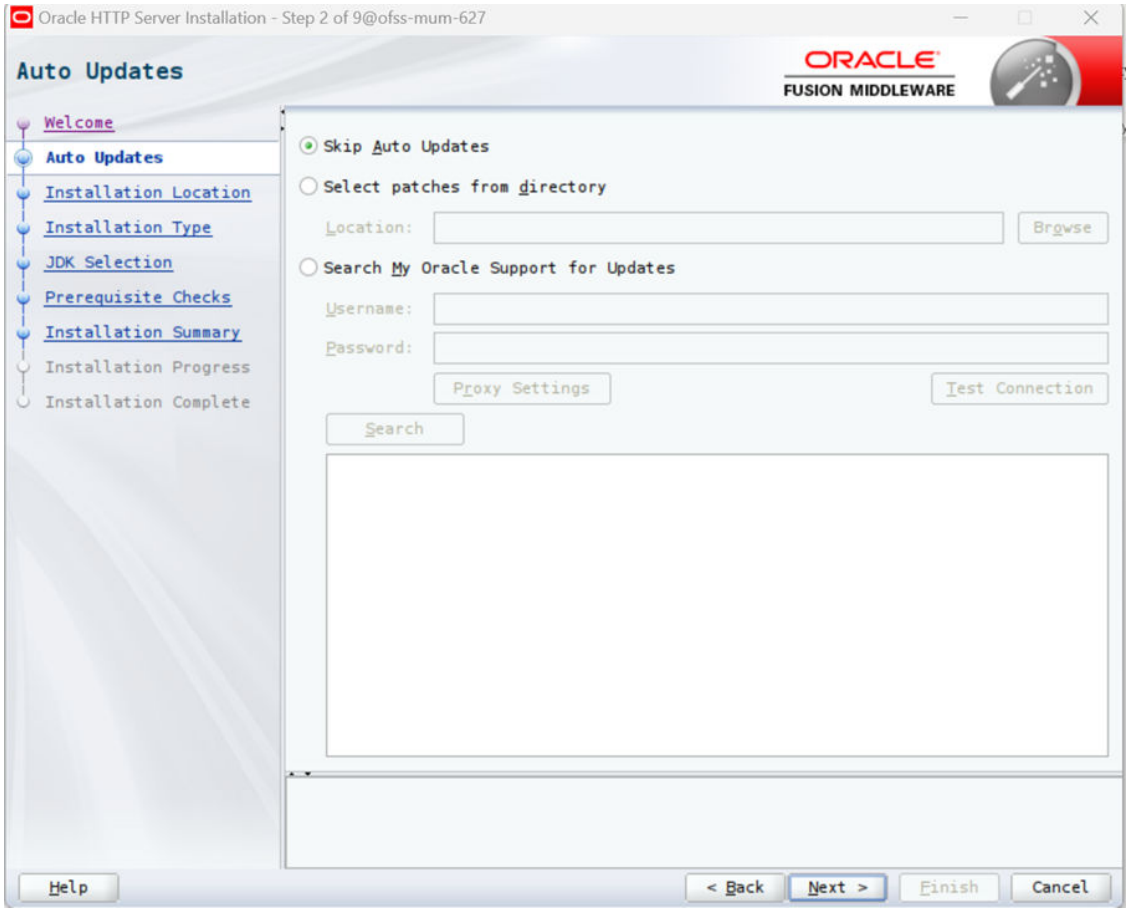
Welcome Screen



The **Welcome** screen is displayed each time you start the installer.

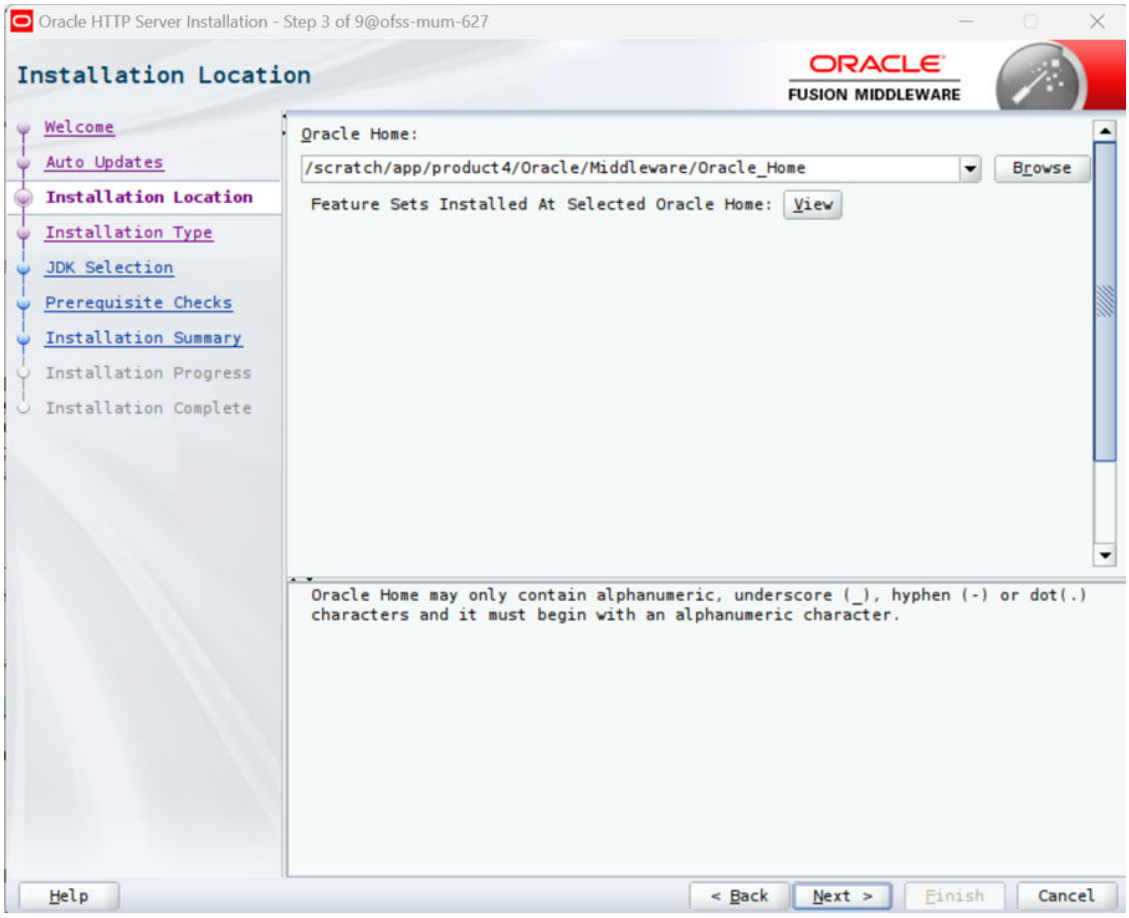
Click **Next** to continue.

Install Software Updates Screen



Select **Skip Software Updates** and click **Next** to continue. (Kindly follow recommended practices regarding updates depending on the setup requirements or usage.)

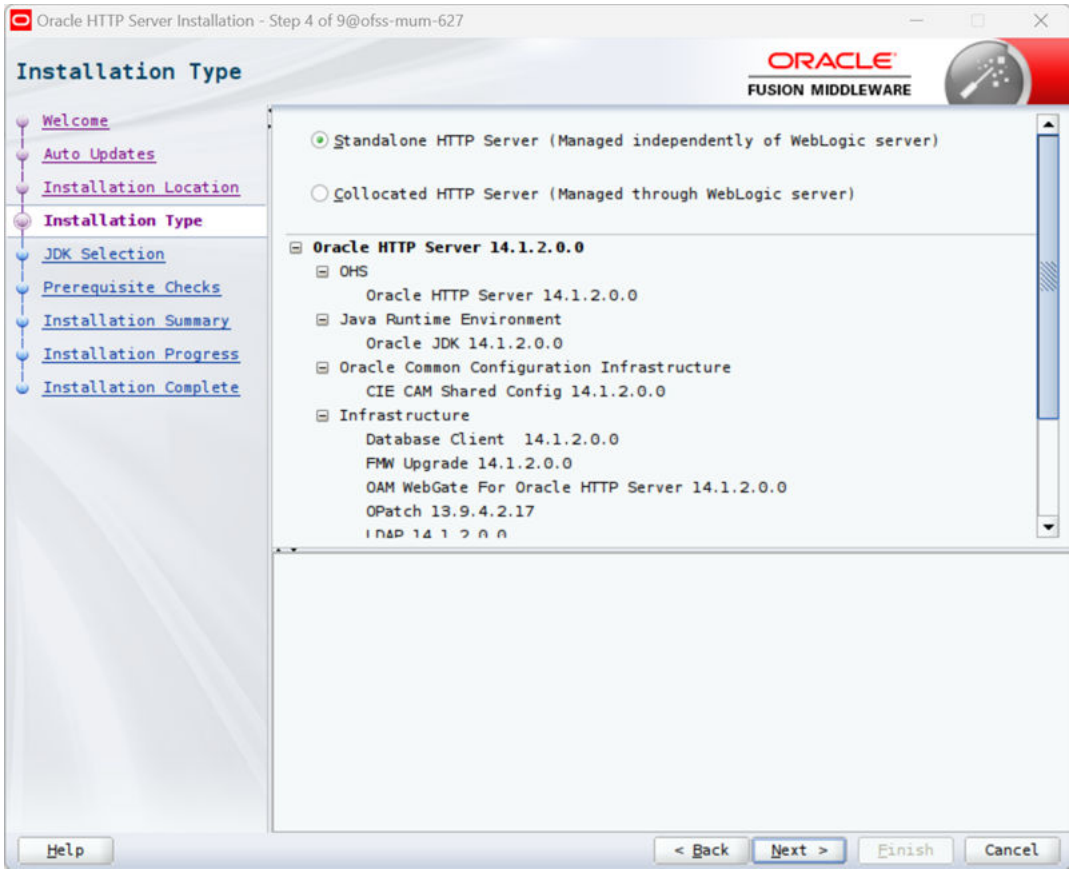
Select Installation Location



Specify the following installation locations:

- Oracle Middleware Home: The absolute path to the directory where Oracle HTTP Server will be installed.

Select Installation Type Screen



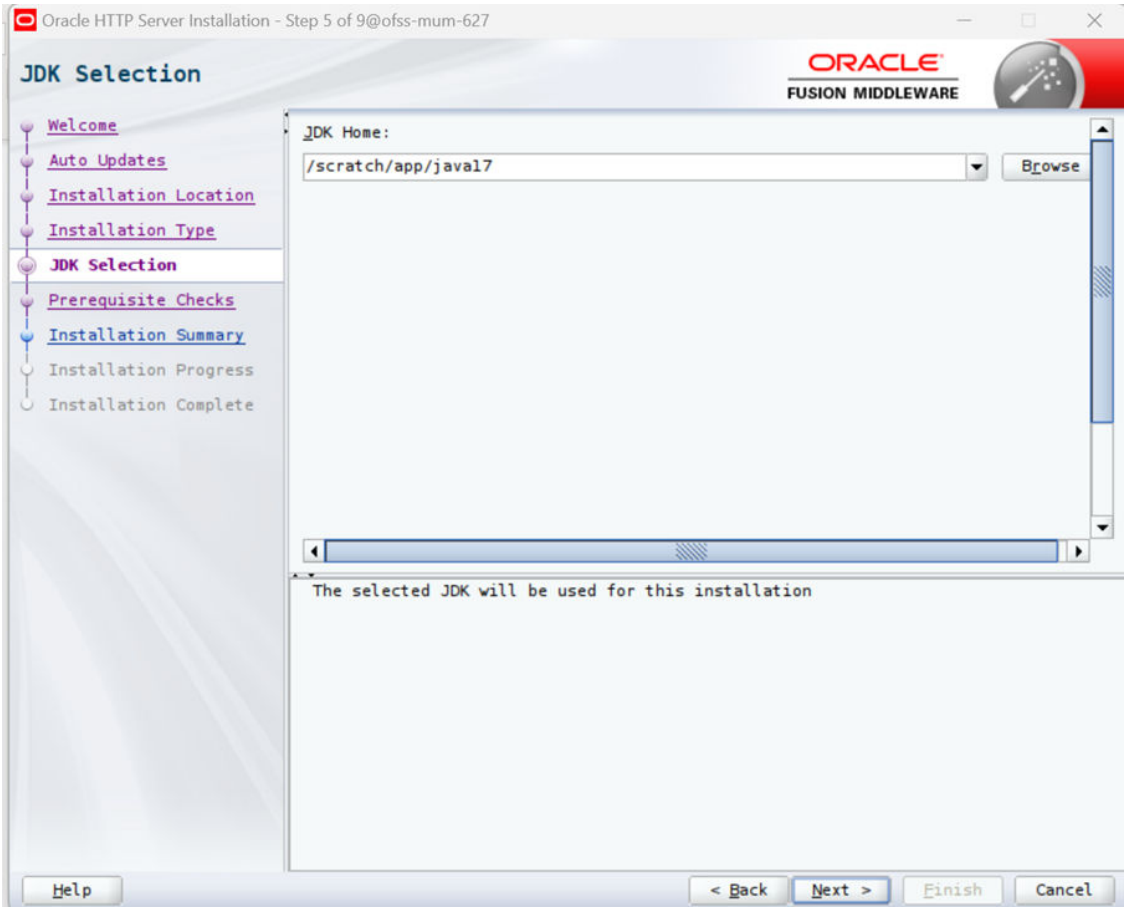
The following are the Installation Types available.

- Standalone HTTP Server (Managed Independently of Weblogic Server)Collocated HTTP Server (Managed through Weblogic server)

Choose installation type as per requirement. Select Standalone HTTP Server (Managed Independently of Weblogic Server).

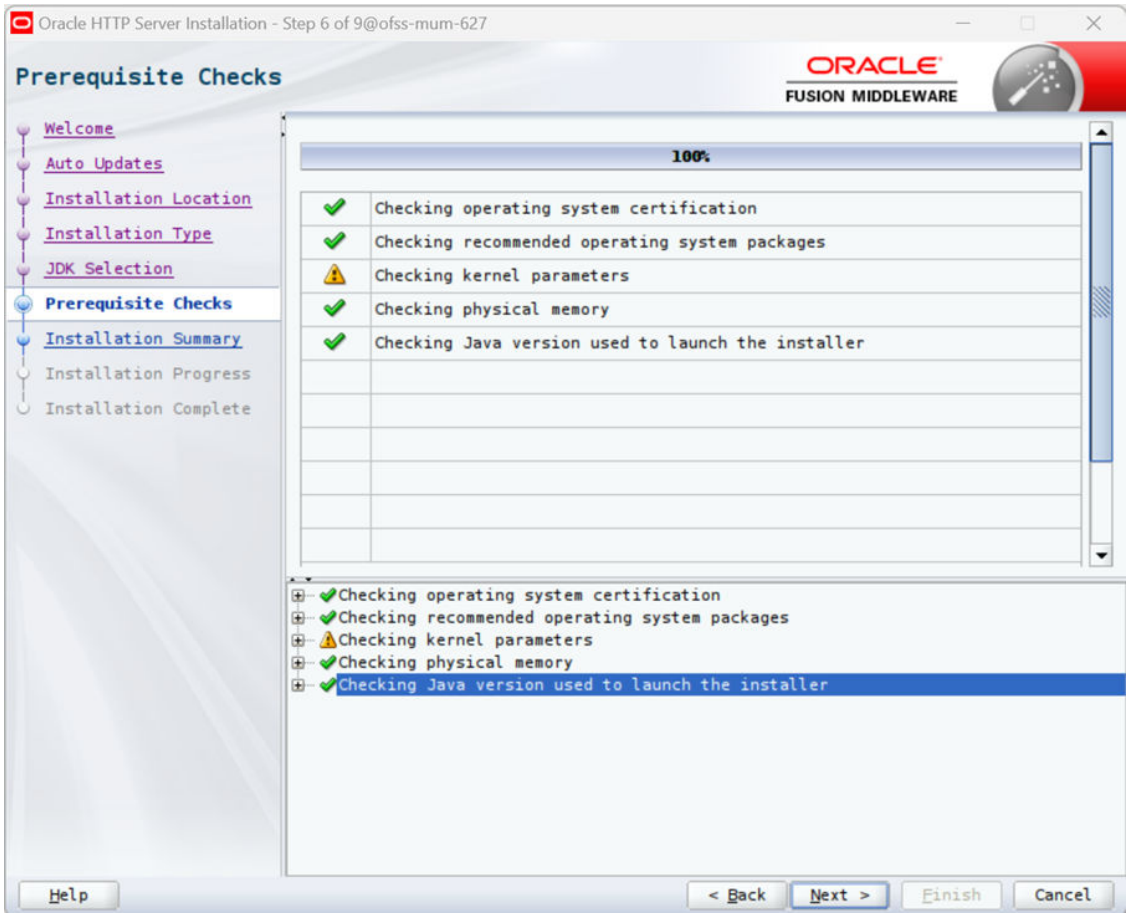
Click **Next** to continue.

Select JDK home



Click **Next** to continue.

Prerequisite Checks Screen

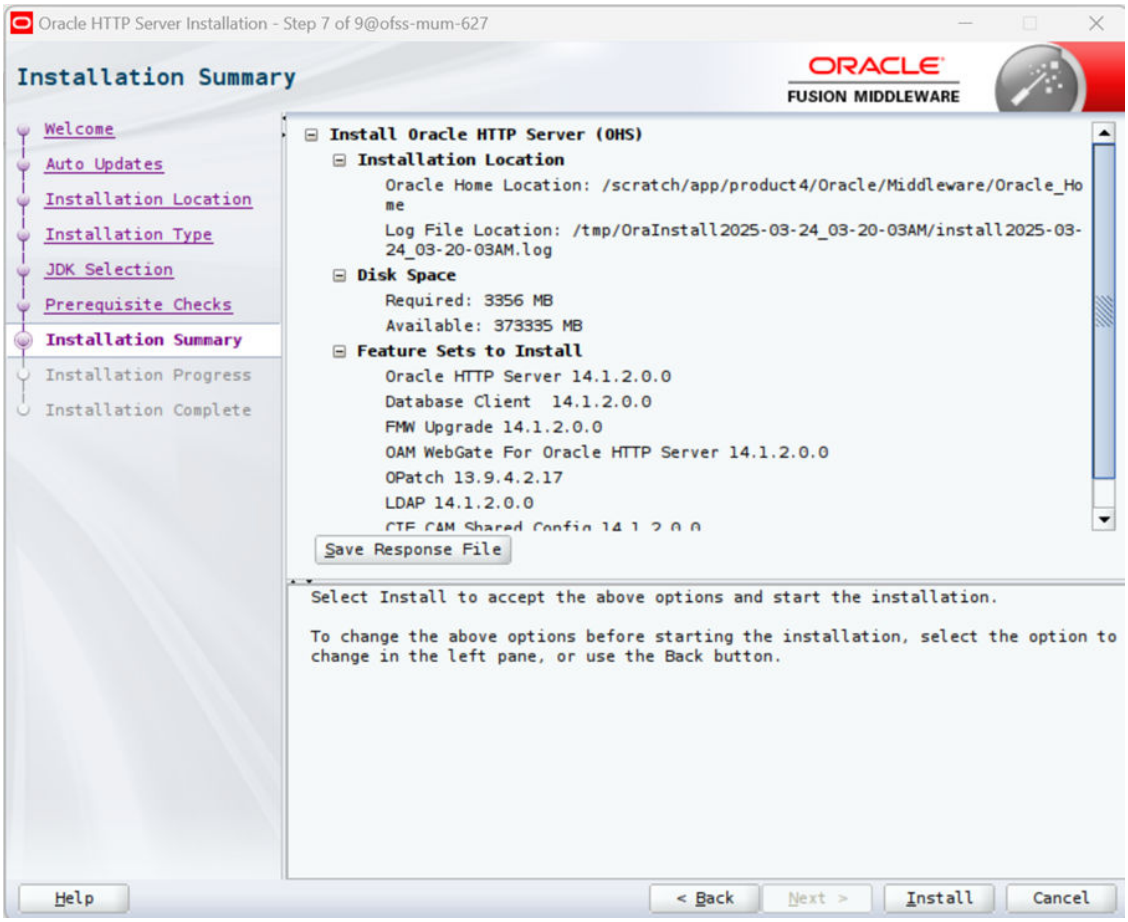


This screen shows whether the system requirements are met in order to install the software.

If there is a problem, a short error message appears in the bottom portion of the screen. Fix the error, and click **Retry** to try again.

Click **Next** to continue.

Installation Summary



Review the information on this screen. The operations summarized on this page will be performed when you click Install.

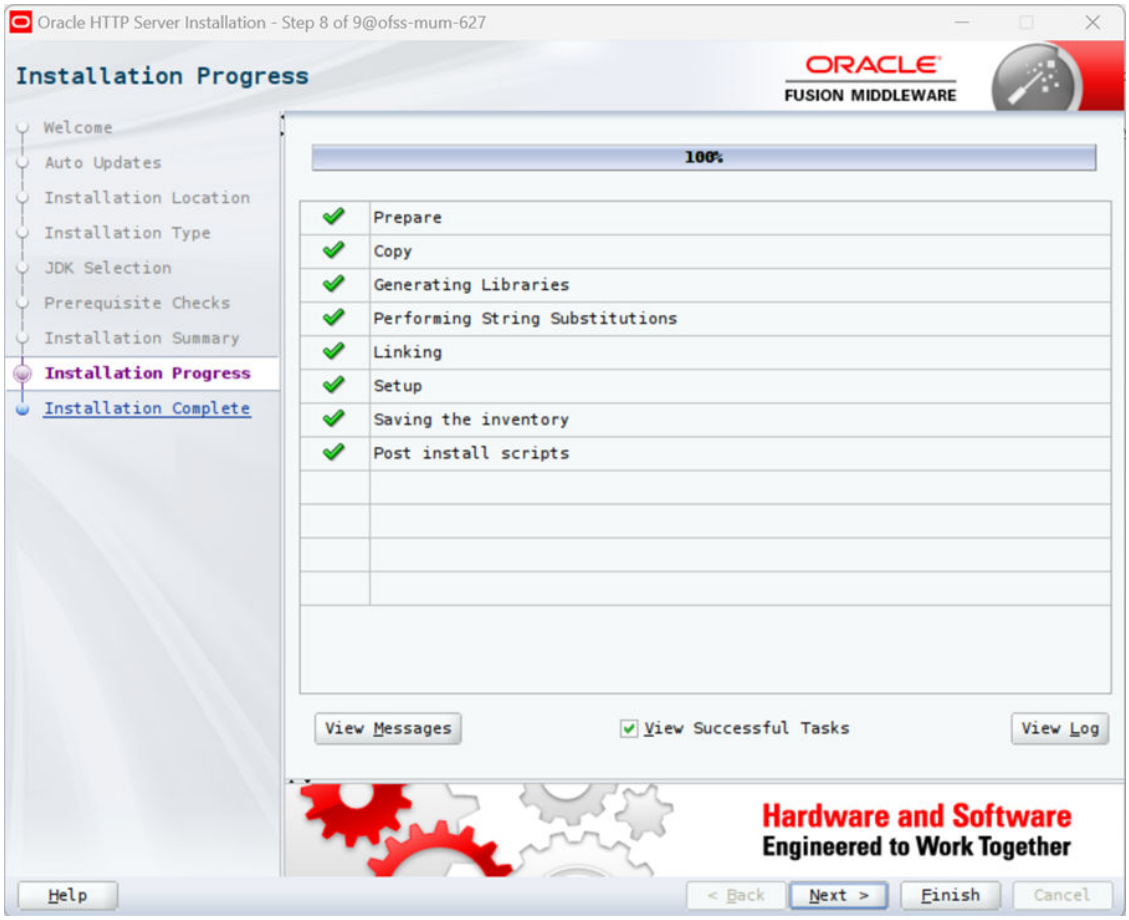
If you want to make any changes to the configuration before starting the installation, use the navigation pane, and select the topic you want to edit.

If you want to save this configuration to a text file (called a response file), click **Save**.

You will be prompted for the location of name of the file you want to create (for example, silent_install.rsp). This file can be used later if you choose to perform the same installation from the command line.

Click **Install**.

Installation Progress Screen

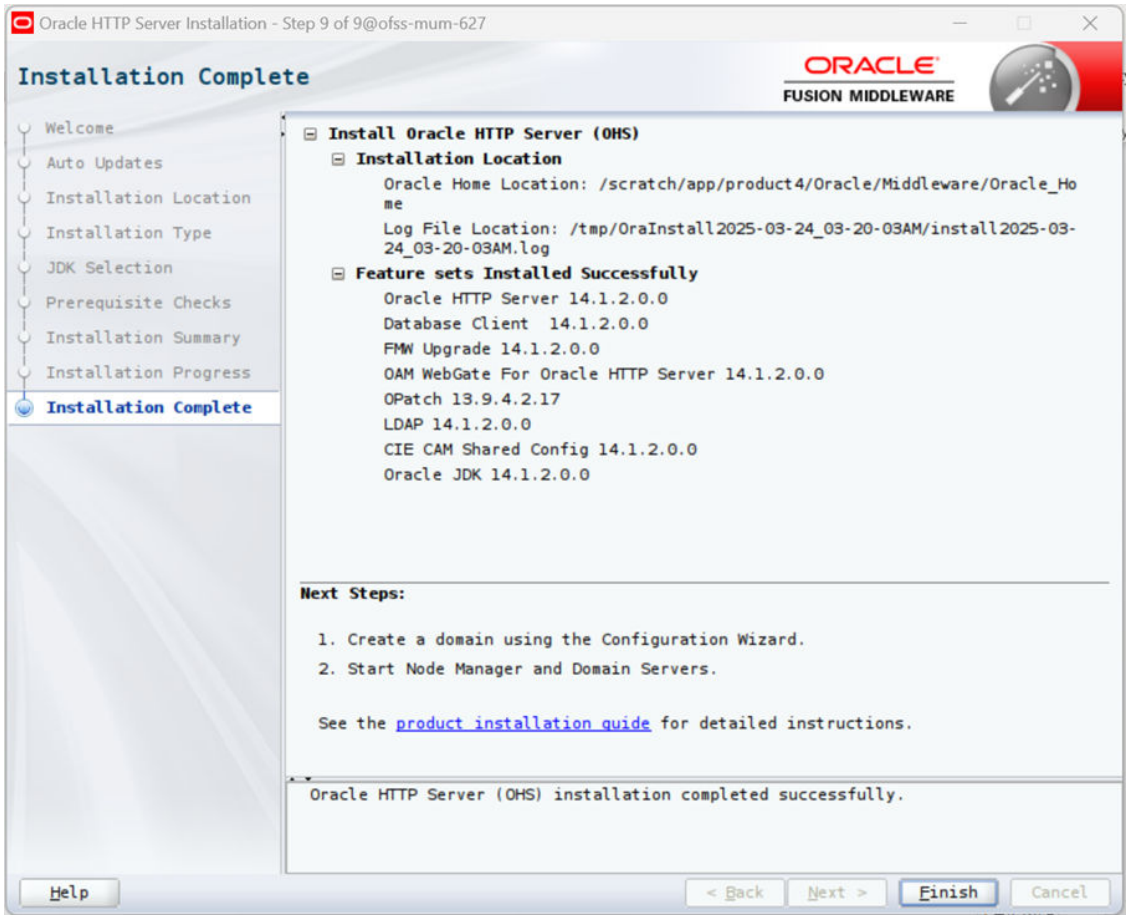


This screen shows the progress of the installation.

If you want to quit before the installation is completed, click **Cancel**.

Click **Next**.

Installation Complete Screen



This screen summarizes the installation that was just completed.

Click **Finish** to dismiss the screen.

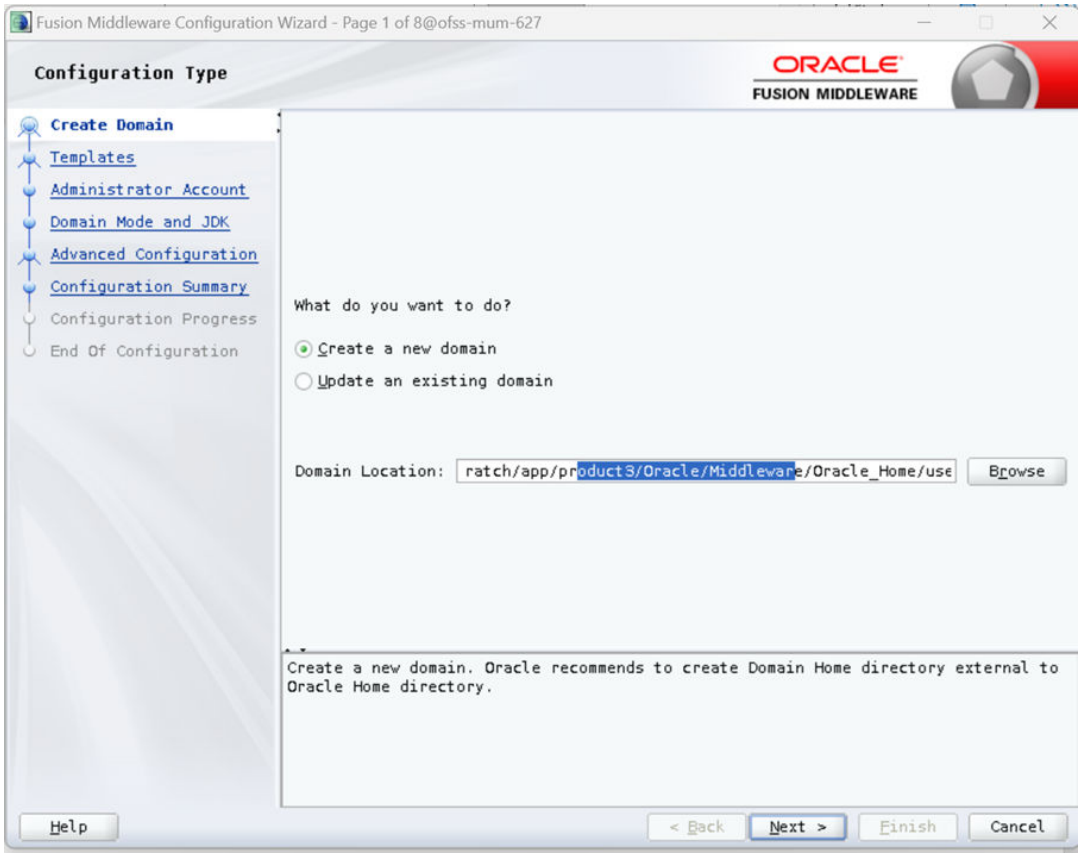
Configure the HTTP server

Follow below steps to configure domain for HTTP server

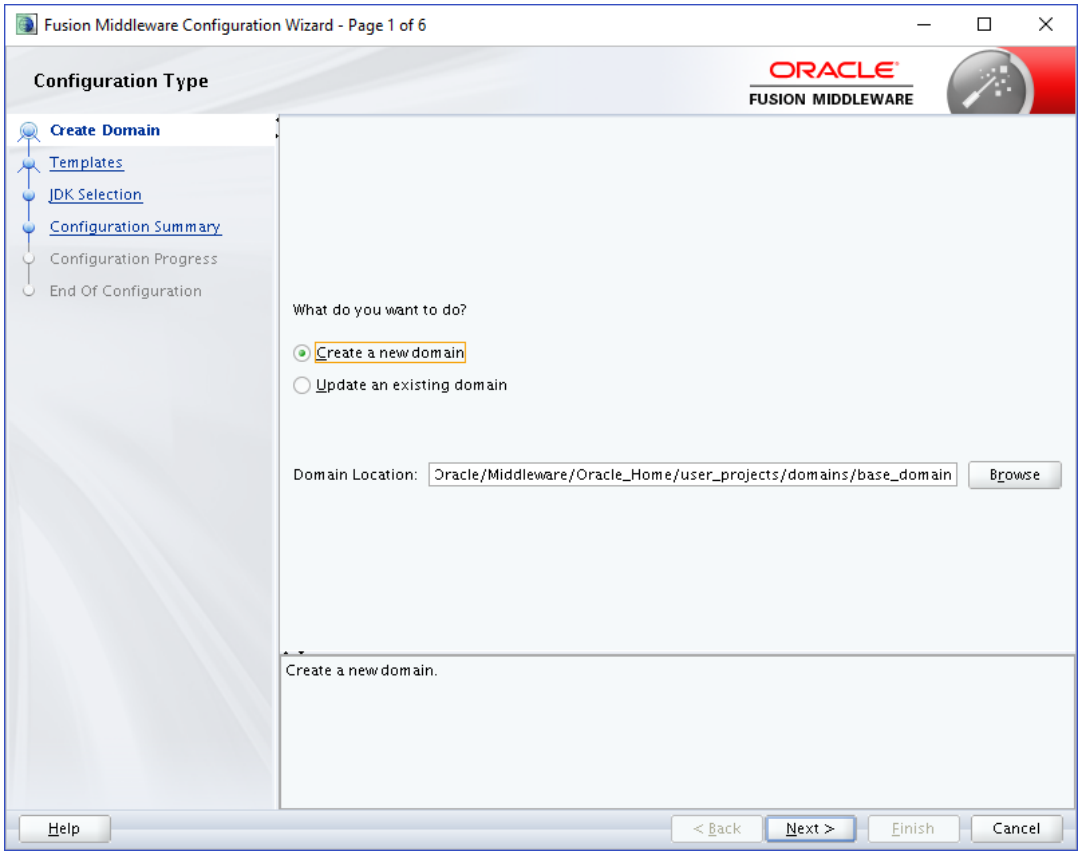
1. Browse <Middleware_Home>/oracle_common/common/bin directory
2. Execute below command

   ```
   ./config.sh
   ```

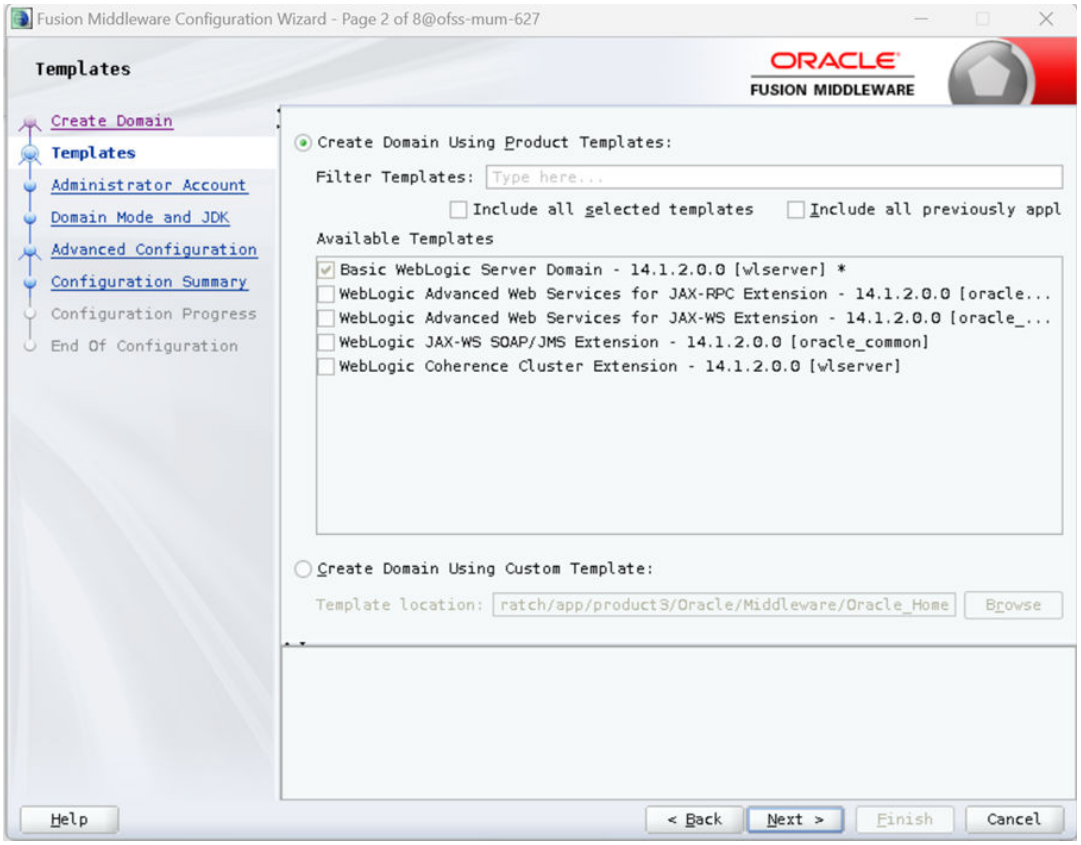
   Below screen will be displayed



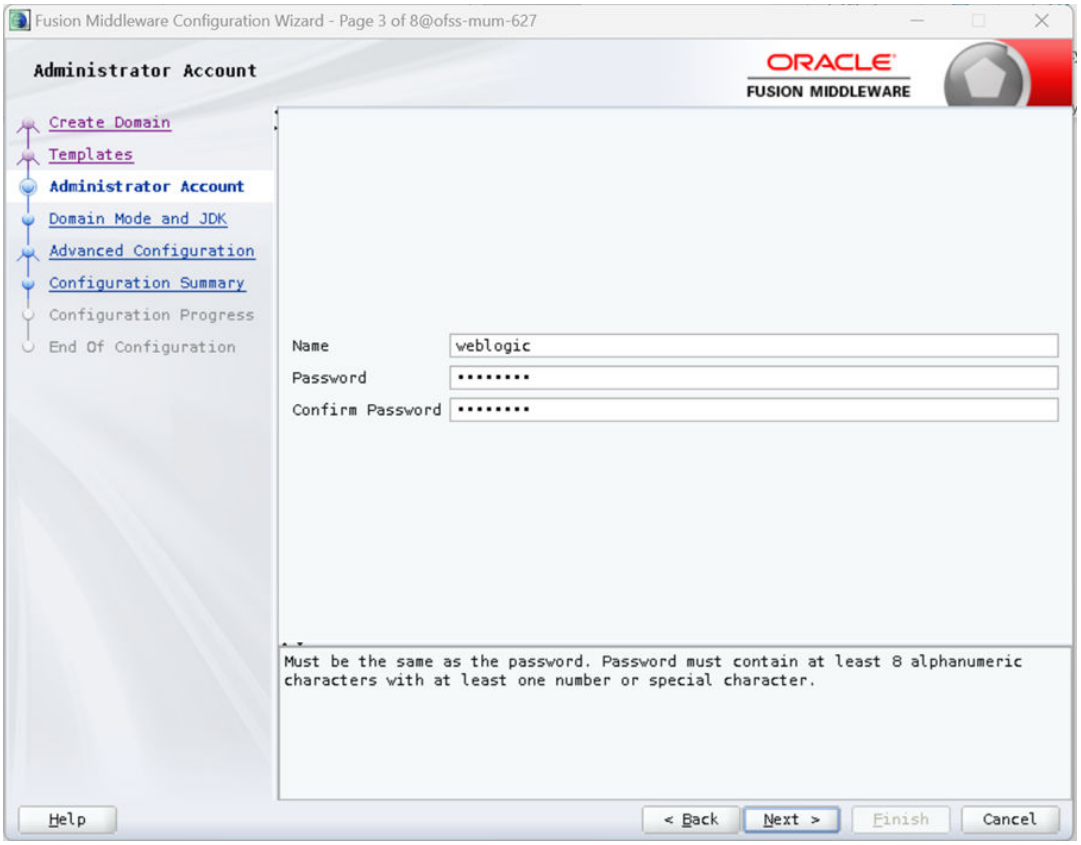
3. Select **Create a new domain** option and select Domain location. Click **Next**.



4. Select Oracle HTTP Server option and click **Next**.



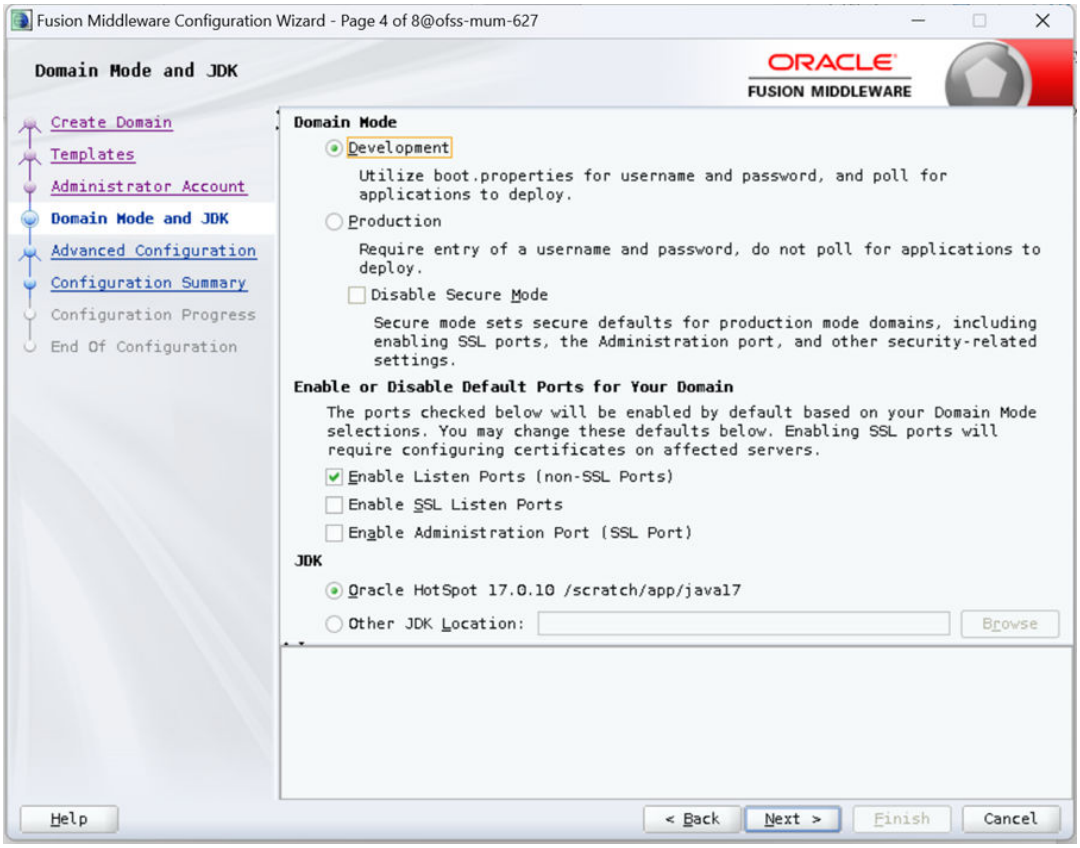
5. Click **Next**.



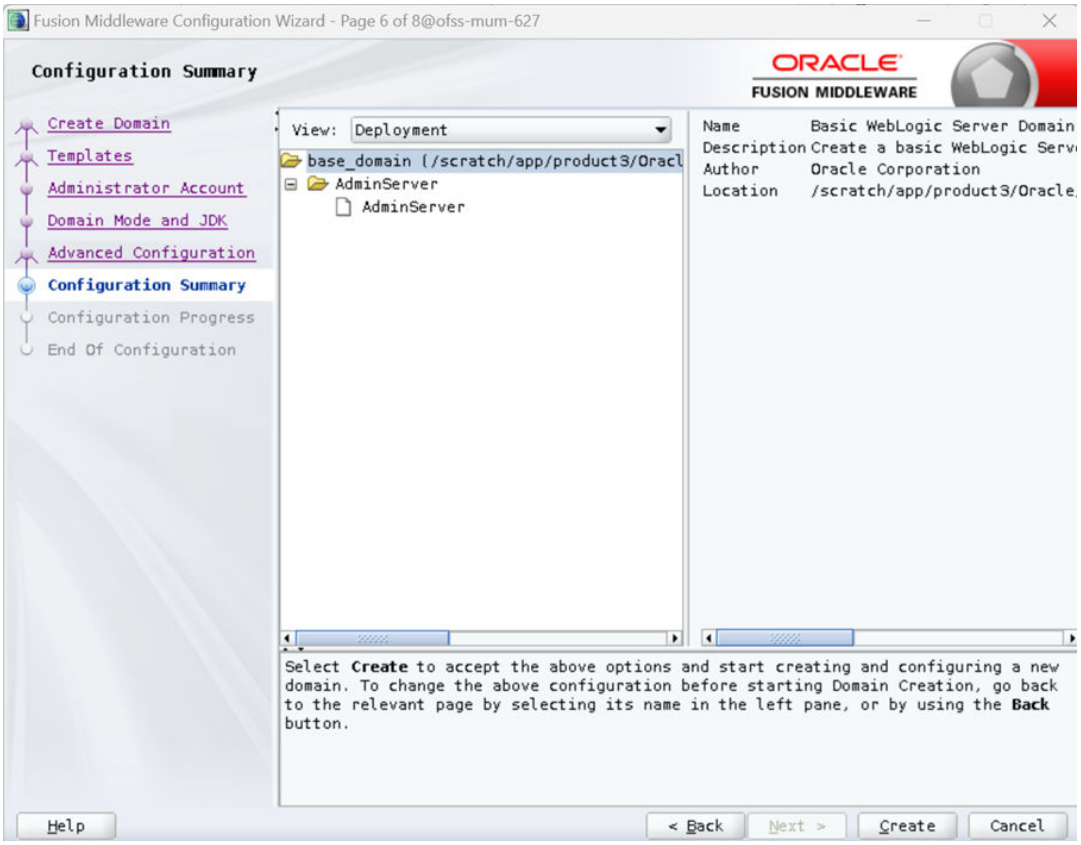
6. Enter below details and click **Next**.
   Name: Set the User name

   Password: Set password

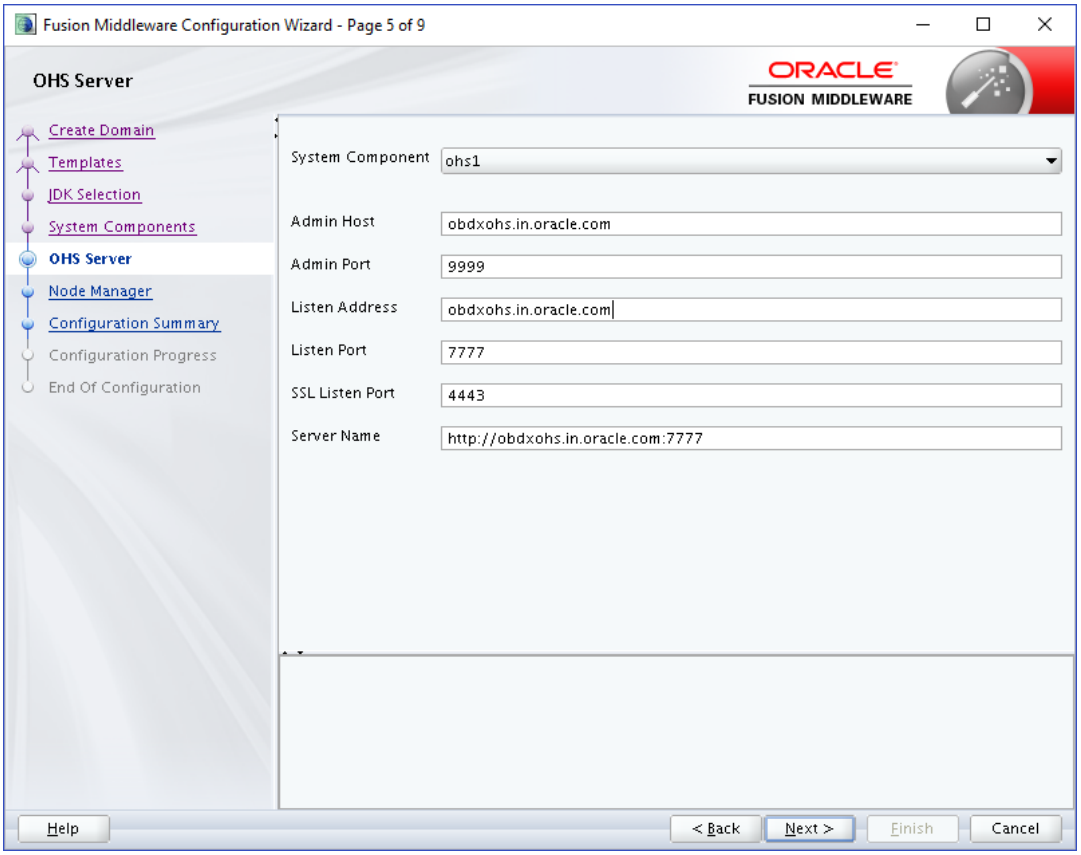
   Confirm Password: Rewrite set password



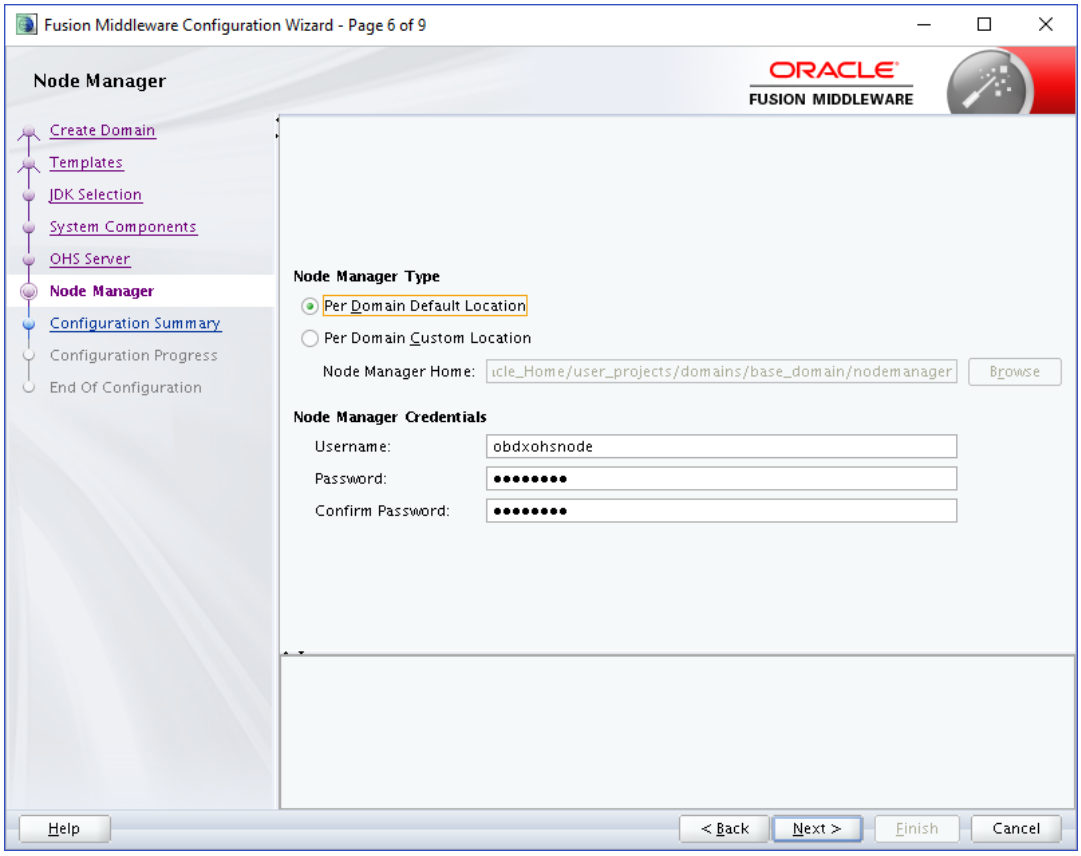
7. Select Domain Mode and JDK And click **Next**.
8. Update configuration and click **Next**.
9. Review summary and click **Create**.



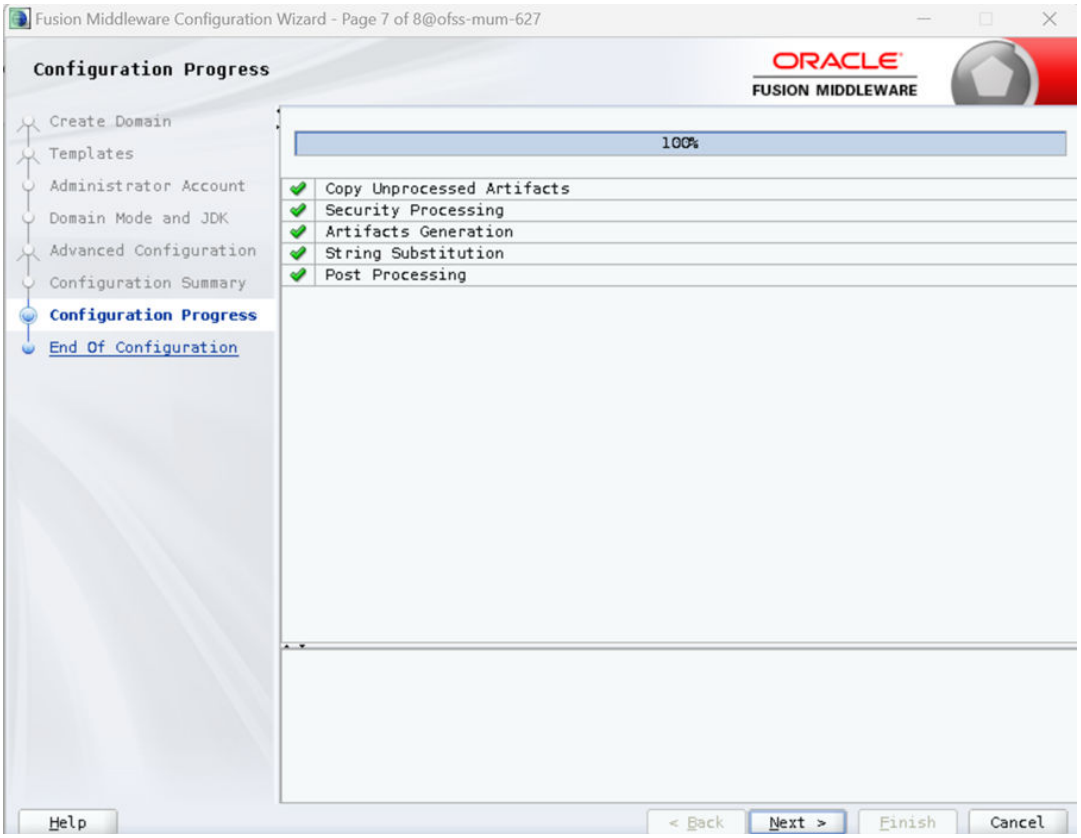
10.

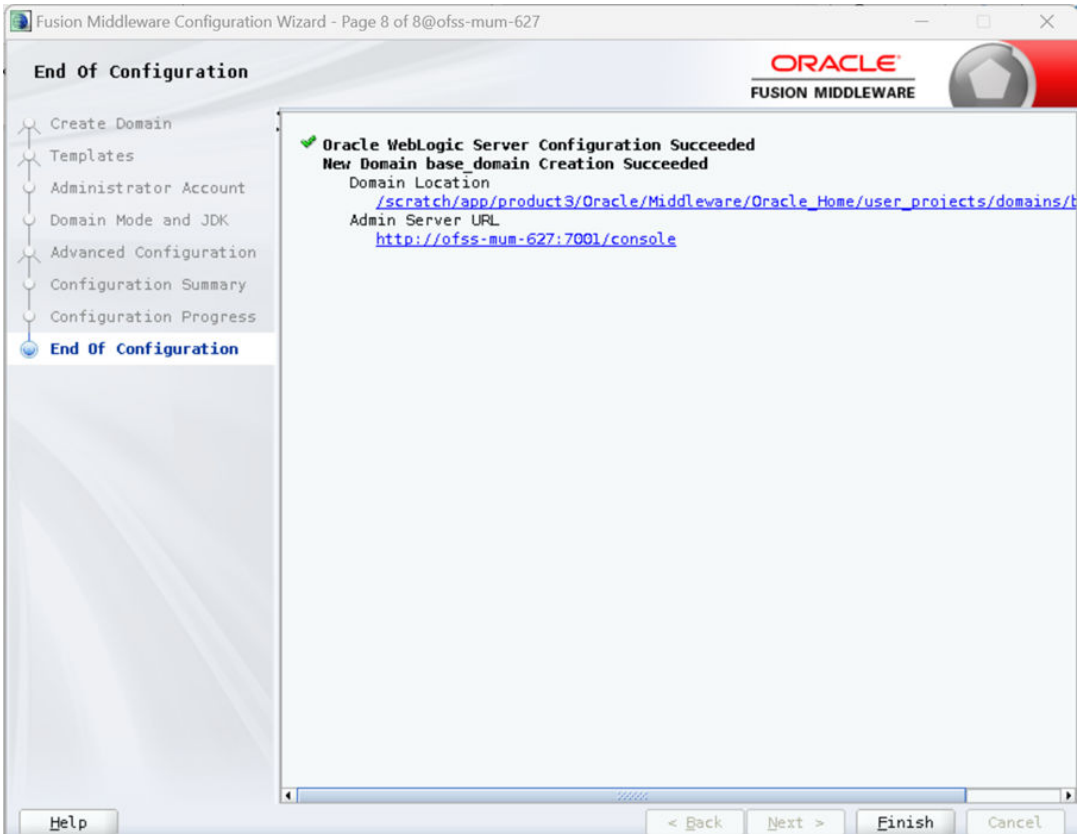


11. Select appropriate **Node Manager Type**; and enter **Node Manager Credentials**. Click **Next**.

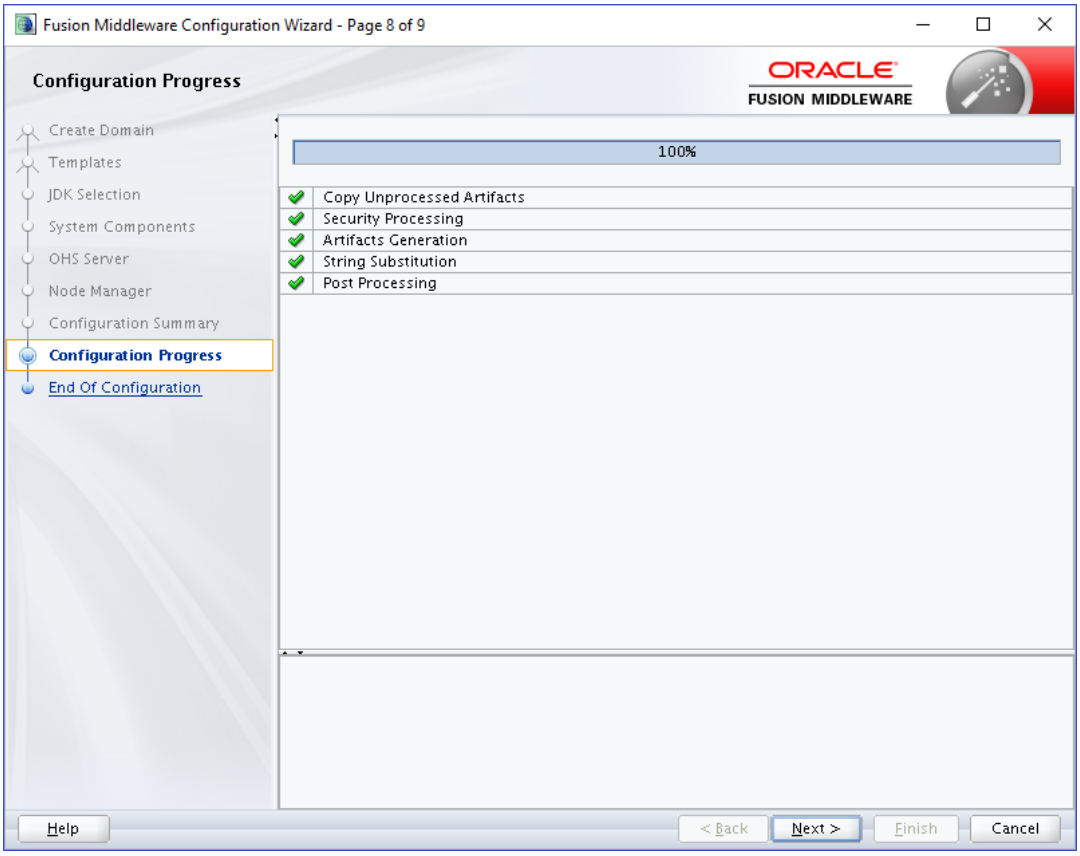


12. Below installation progress can be seen;





13. Click **Next**.



3.2 Verifying Installation

This topic provides information on **Verifying Installation**.

You can perform following tasks to verify that your installation was successful:

- **Verifying the Installation Logs:** Verify the installation logs using the Log file location available in installation complete screen (or <User home dir>/oraInventory/logs).
- **Verifying the OPMN Status:** Run the below commands from the <Domain_directory>/bin directory on UNIX, in your instance home location. For example:
- **Start** NodeManager

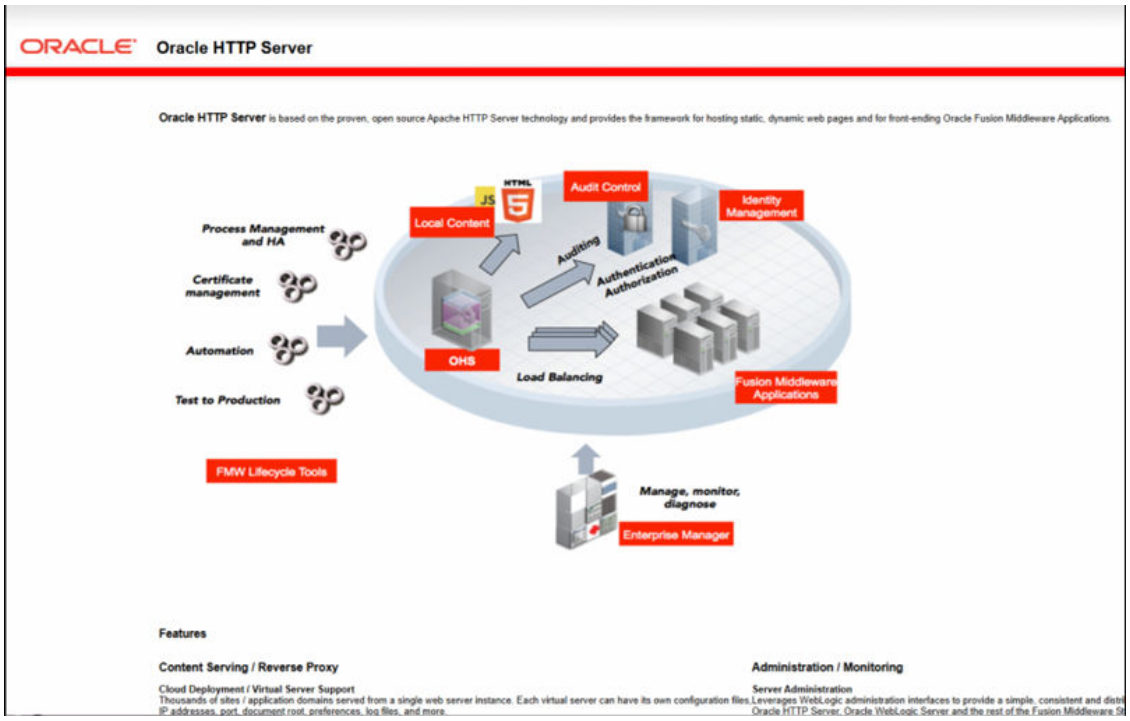
```
cd
/scratch/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/
base_domain/bin.
    /startNodeManager.sh
```

- **Start** component

```
./startComponent.sh ohs1
```

Use the listen port number to point your browser to the HTTP server to test installation. Use the format:

http://<HTTPSERVERHOSTNAME>:<HTTPSERVERLISTENPORT>



4

Oracle Analytics Publisher Installation

This topic provides information on **Oracle Analytics Publisher Installation**.

To install Oracle Analytics Publisher Installation refer

https://docs.oracle.com/en/middleware/bi/analytics-server/index.html

Index