Installer Pre-Requisite Setup Guide
Oracle Banking Digital Experience
Release 22.1.0.0.0

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Installer Pre-Requisite Setup Guide

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Table of Contents

1. Preface

1.1 <u>Intended Audience</u>

This document is intended for the following audience*:*

- Customers
- Partners

1.2 <u>Documentation Accessibility</u>

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.

1.3 <u>Access to Oracle Support</u>

Oracle customers have access to electronic support through My Oracle Support. For information, visit

http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit

http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

1.4 <u>Structure</u>

This manual is organized into the following categories:

Preface gives information on the intended audience. It also describes the overall structure of the User Manual.

The subsequent chapters describes following details:

- Introduction
- Preferences & Database
- Configuration / Installation.

1.5 <u>Related Information Sources</u>

For more information on Oracle Banking Digital Experience Release 22.1.0.0.0, refer to the following documents:

- Oracle Banking Digital Experience Installation Manuals

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2. Introduction

This guide helps you to do the pre-requisite setup required before the execution of OBDX 22.1.0.0.0 Installer.

More details about each task are explained in detail in following sections.

2.1 <u>Software List</u>

Software Name	Version	Mandatory Software
Operating System	ORACLE LINUX 8.3	Y
Oracle Database	19.14.0.0.0	Y
Oracle Java Development Kit	11.0.14	Y
Oracle Weblogic Server	14.1.1.0.0	Y
Any HTTP Server	NA	Y
Oracle Digital Assistant (ODA)	20.05	N***
Python	3.8.x	Y****
Python Package: cx_Oracle	8.3.0	Y*****
Python Package: urwid	2.1.2	Y
Flyway	8.3	Y******
Gradle	7.4.2	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 **2.3 Pre-requisite software installation and OS configuration for OBDX Installer – Python 3.8.0 for Linux Operating System**

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

****** Required for database files execution

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2.2 Pre-requisite software installation and OS configuration for OBDX Installer

Below steps assume Python 3.8.x is installed and available on server. You can verify the Python version by executing the command as shown below:

```
[root@            ~]# python3.8 -V
Python 3.8.0
```

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

Flyway Installation

Download the flyway version 8.3 zip file from flyway site

Unzip the downloaded zip file into the desire path.

Example :-

cd /home/obdxuser

tar -xvzf flyway-commandline-8.3-linux-x64.tar.gz

FLYWAY_HOME=/home/obdxuser/flyway-8.3

(flyway home path will be /home/obdxuser/flyway-8.3)

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-7.4.2-bin.zip

GRADLE_HOME=/home/obdxuser/gradle-7.4.2

cx_Oracle (Software Installation)

Step 1: Oracle Instant Client

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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-basic-19.10.0.0.0-1.x86_64.rpm

Run the below command

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

Step 2: Install cx_Oracle

a. Download cx_Oracle from cx_Oracle (or cx-oracle org) website

b. Extract the tar file as shown below

c. Browse into the extracted directory and run below command

    python3.8 setup.py build_py

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```
bash-4.4# python3.8 setup.py build_py
running build_py
```

d. Execute below command to perform Urwid installation

python3.8 setup.py install

```
bash-4.4# python3.8 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 file 'cx_Oracle.egg-info/SOURCES.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 you can install cx_oracle from step mention in 2.3 below step 2

Urwid (Software Installation)

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

Note: Support version for Urwid is 2.1.2 (urwid-2.1.2.tar.gz)

Step 2: 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
urwid-2.1.2/docs/examples/bigtext1.png
```

Step 3: Browse into the extracted directory and run below command

python3.8 setup.py build_py

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```
bash-4.4# python3.8 setup.py build_py
running build_py
creating build
creating build/lib.linux-x86_64-3.8
creating build/lib.linux-x86_64-3.8/urwid
copying urwid/__init__.py -> build/lib.linux-x86_64-3.8/urwid
copying urwid/_async_kw_event_loop.py -> build/lib.linux-x86_64-3.8/urwid
copying urwid/canvas.py -> build/lib.linux-x86_64-3.8/urwid
copying urwid/command_map.py -> build/lib.linux-x86_64-3.8/urwid
copying urwid/compat.py -> build/lib.linux-x86_64-3.8/urwid
copying urwid/container.py -> build/lib.linux-x86_64-3.8/urwid
copying urwid/curses_display.py -> build/lib.linux-x86_64-3.8/urwid
copying urwid/decoration.py -> build/lib.linux-x86_64-3.8/urwid
copying urwid/display_common.py -> build/lib.linux-x86_64-3.8/urwid
copying urwid/escape.py -> build/lib.linux-x86_64-3.8/urwid
copying urwid/font.py -> build/lib.linux-x86_64-3.8/urwid
```

Note: Ensure Python 3.8.0 version should be available in PATH variable. Above execution should be done using Python 3.8.0.

Step 4: Execute below command to perform Urwid installation

> # python3.8 setup.py install

```
bash-4.4# python3.8 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 you can install urwid from step mention in 2.3 below step 2
Ensure Python 3.8.0 version should be available in PATH variable. Above execution should be done using Python 3.8.0.

2.3 <u>Python 3.8.0 installation on Linux Operating System</u>

Step 1: Execute below commands to install the python 3.8.0

> 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/3.8.0/Python-3.8.0.tgz

> tar -xzvf Python-3.8.0.tgz

> cd Python-3.8.0

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./configure --enable-optimizations

make altinstall

python3.8 –version

```
[root@             ~]# python3.8 -V
Python 3.8.0
```

Step2: Once above steps are executed successfully install the following required modules.

pip3.8 install cx-Oracle==8.3.0

pip3.8 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.

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3. Installing and Configuring Weblogic Server 14c

This chapter describes the steps for installing the Weblogic Server version 14.1.1.0.0:

- Section 3.1, "Installing Stand-alone Weblogic"

3.1 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 chapter describes the installation tasks which contains the following sections:

- Section 3.1.1, "Pre-requisite - Installing Java 11.0.14"
- Section 3.1.2, "Installing Weblogic Server "
- Section 3.1.3, "Verifying the Installation"

3.1.1 Pre-requisite - Installing Java 11

- Obtain the Java tarball pack from the Oracle Java Downloads. Download **jdk-11.0.14_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 zxvf <Path>/ jdk-11.0.14_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-11.0.14

  export PATH=$JAVA_HOME/bin:$PATH

3.1.2 Installing Weblogic

- Obtain Weblogic Server 14.1.1.0.0 zip from the Oracle Downloads. Extract the downloaded zip to get *fmw_14.1.1.0.0_wls.jar* file to a directory.
- Now to start the installer, go to the directory where you have extracted the jar file.
- Start the installer from the same directory using the below command:
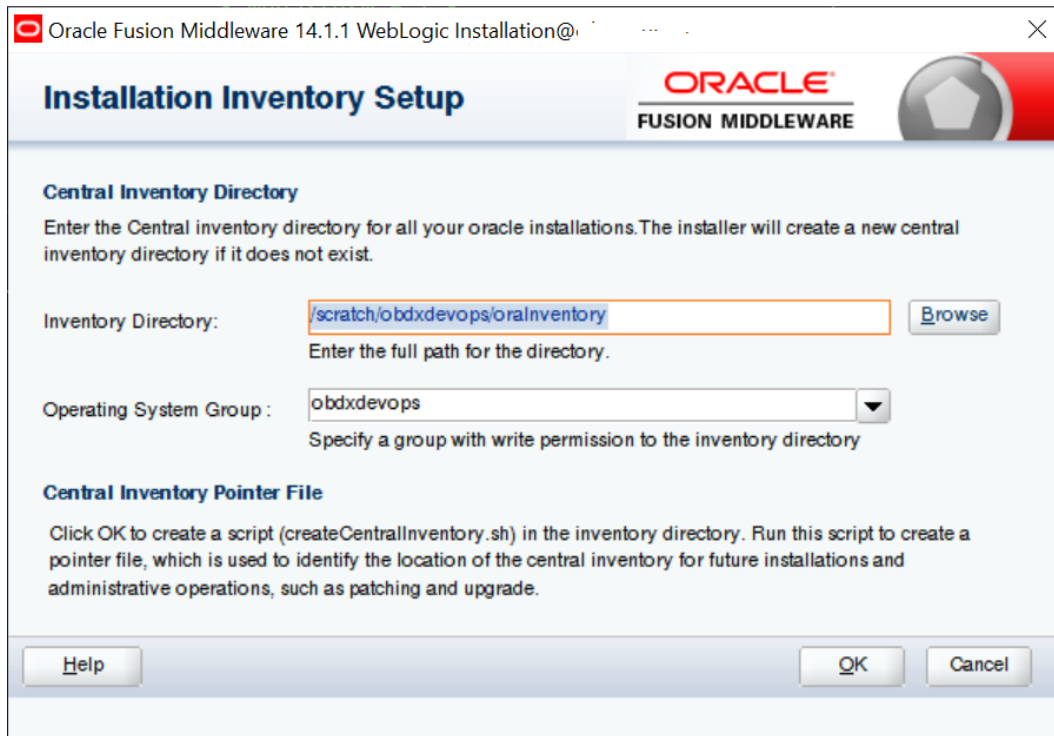
  java –jar <Path>/fmw_14.1.1.0.0_wls.jar

Note: You must enter the absolute path of the folder where the JAR file is located.

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If you are installing on a UNIX system, and if this is the first time any Oracle product is being installed on your system with the Oracle Universal Installer, you are asked to provide the location of an inventory directory. This is where the installer sets up subdirectories and maintains inventory data for each Oracle product that is installed on this system.

Installation Inventory Setup Screen

Specify the Oracle inventory directory and group permissions for that directory. The group must have write permissions to the Oracle inventory directory.

Click **OK** to continue.

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Welcome Screen

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

Click **Next** to continue.

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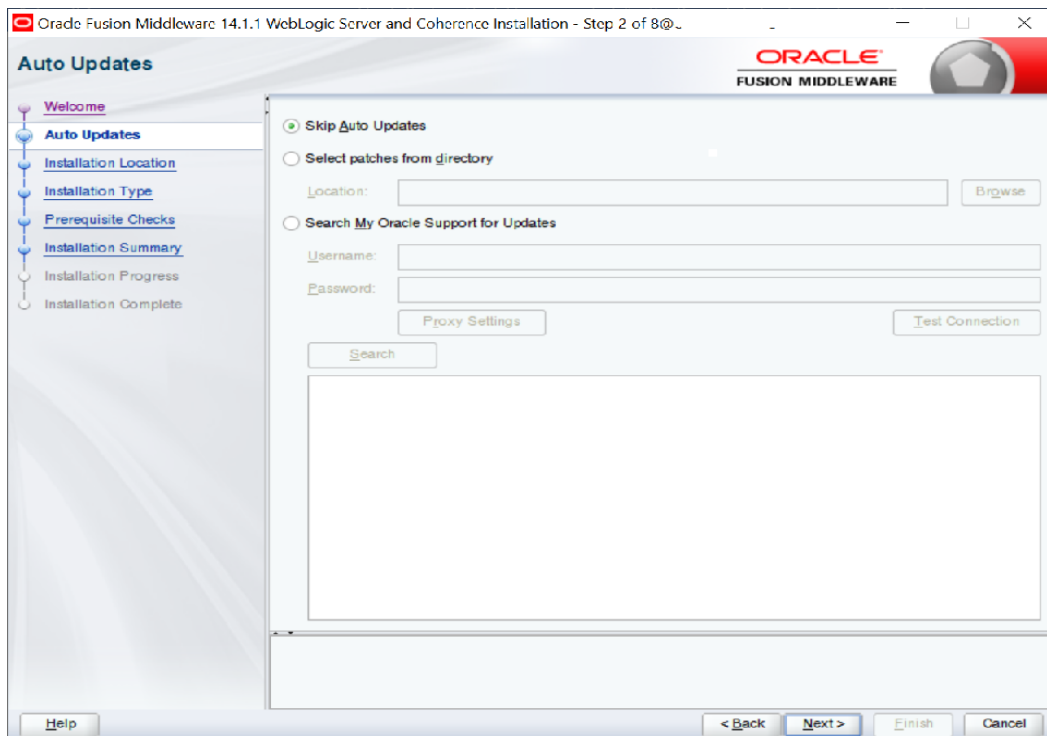
Select "**Skip Auto Updates**" option and click **Next** to continue. (Kindly follow recommended practices regarding updates depending on the setup requirements or usage.)

Specify Installation Location Screen
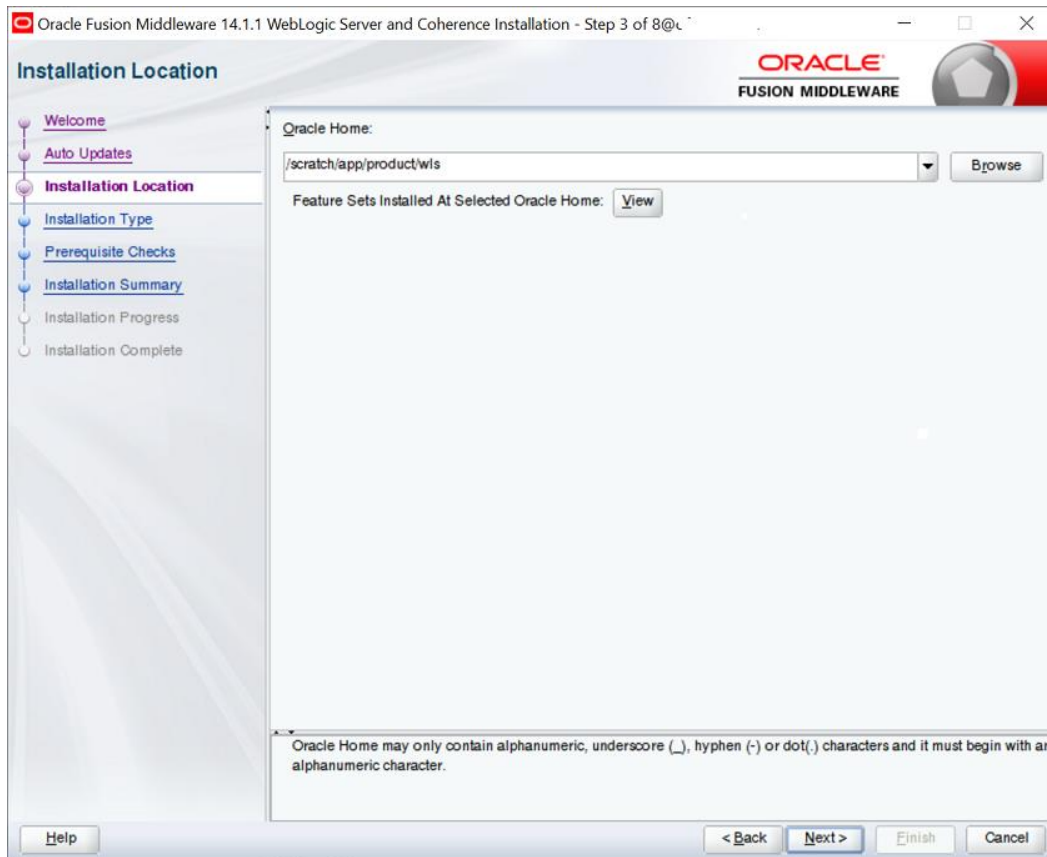
Specify the following installation locations:

- Oracle Middleware Home

This is the absolute path to the directory where the WebLogic Server will be installed.

Click **Next** to continue.

Specify Installation Type Screen
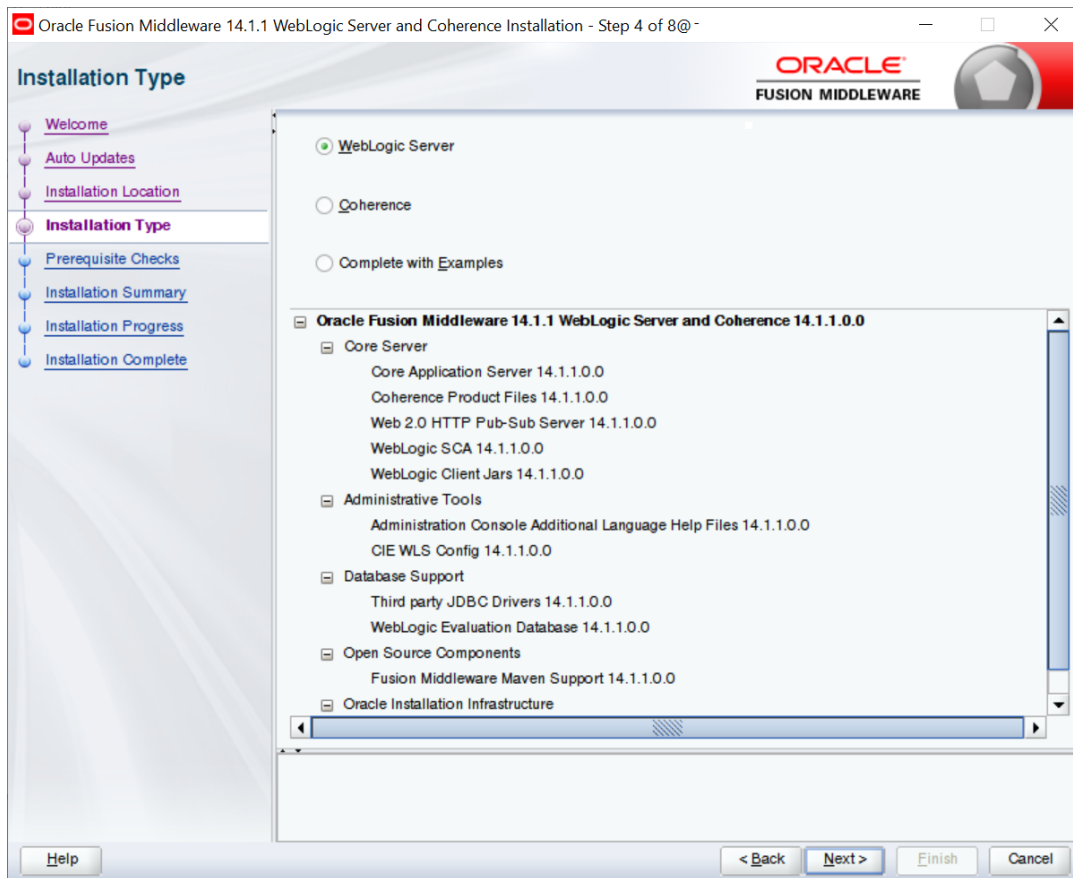
Following are the installation types:

- Weblogic Server
- Coherence
- Complete with Examples

Select Weblogic Server and Click **Next** to continue.

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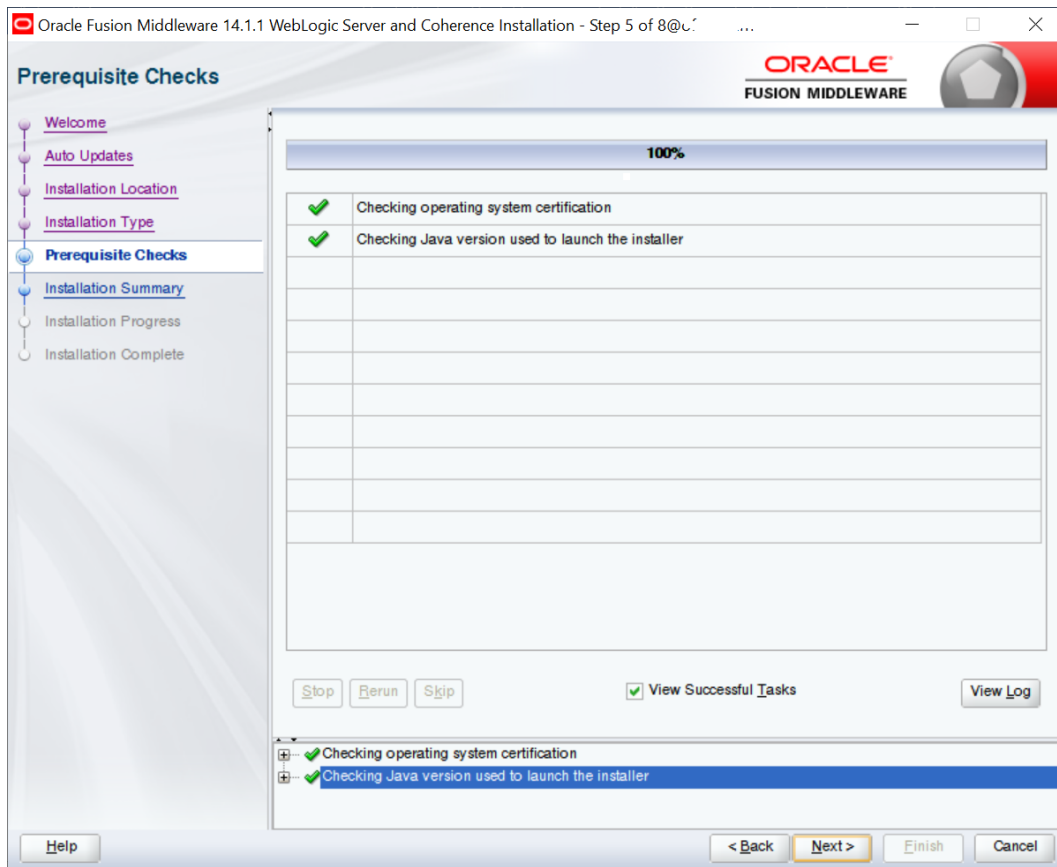
This screen shows whether the system requirements are met in order to install the software.

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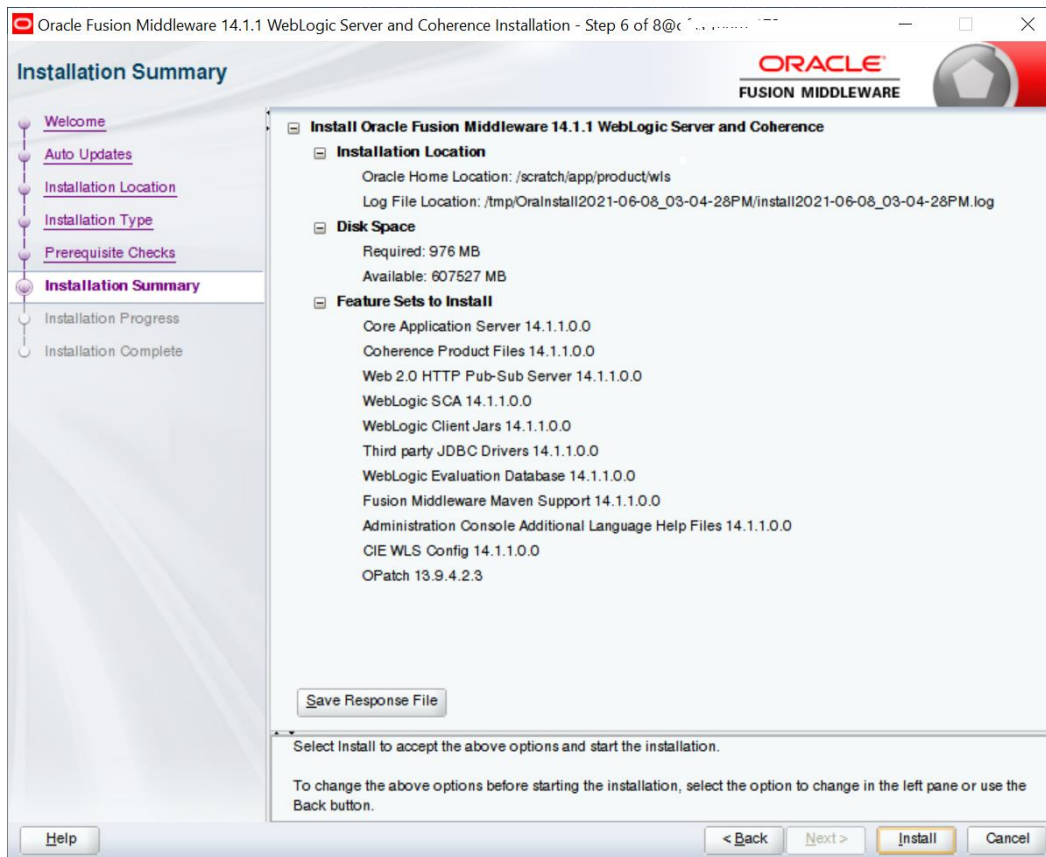
Review the information on this screen. The operations summarized on this page will be performed when you click Install.

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**.

Then screen shows the progress of the installation.

Installation Progress Screen
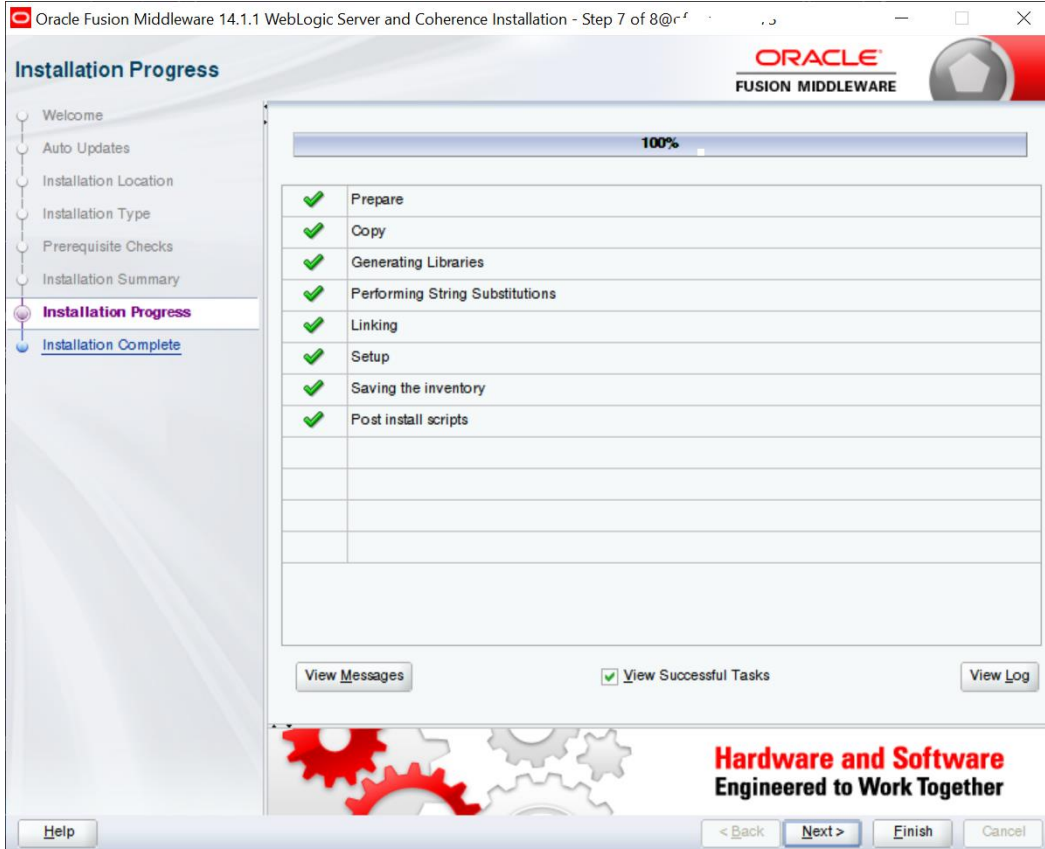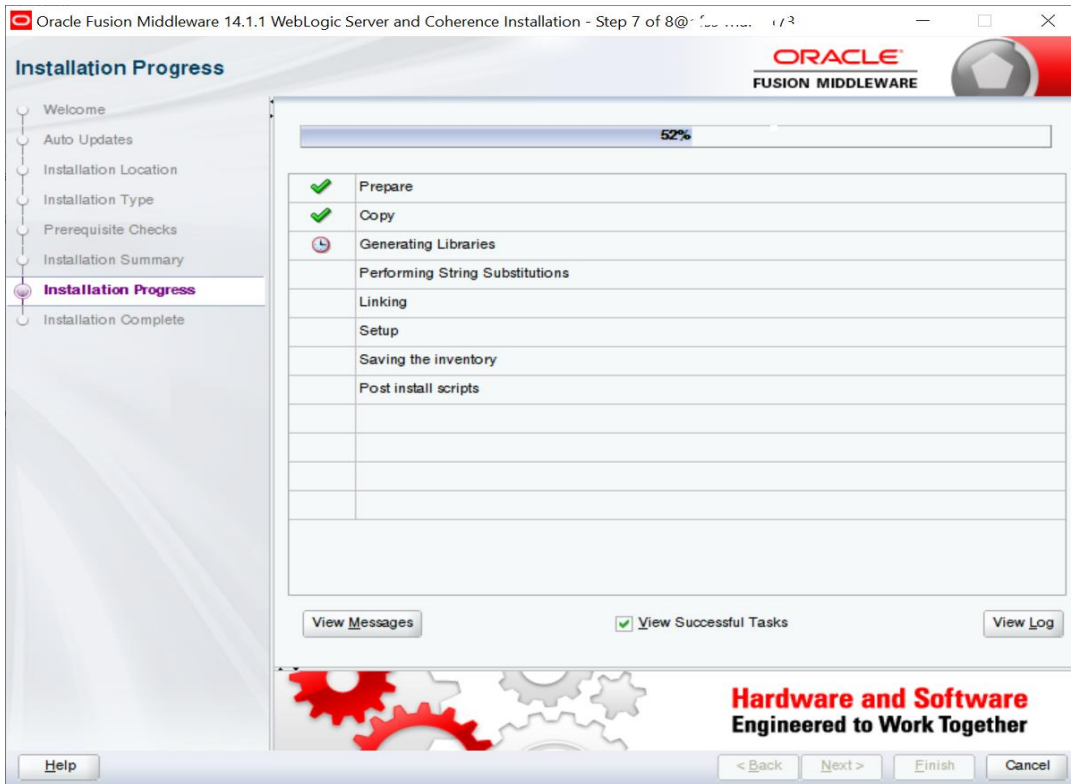
This screen shows the progress of the installation. Click **Next**.

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

Installation Complete Screen
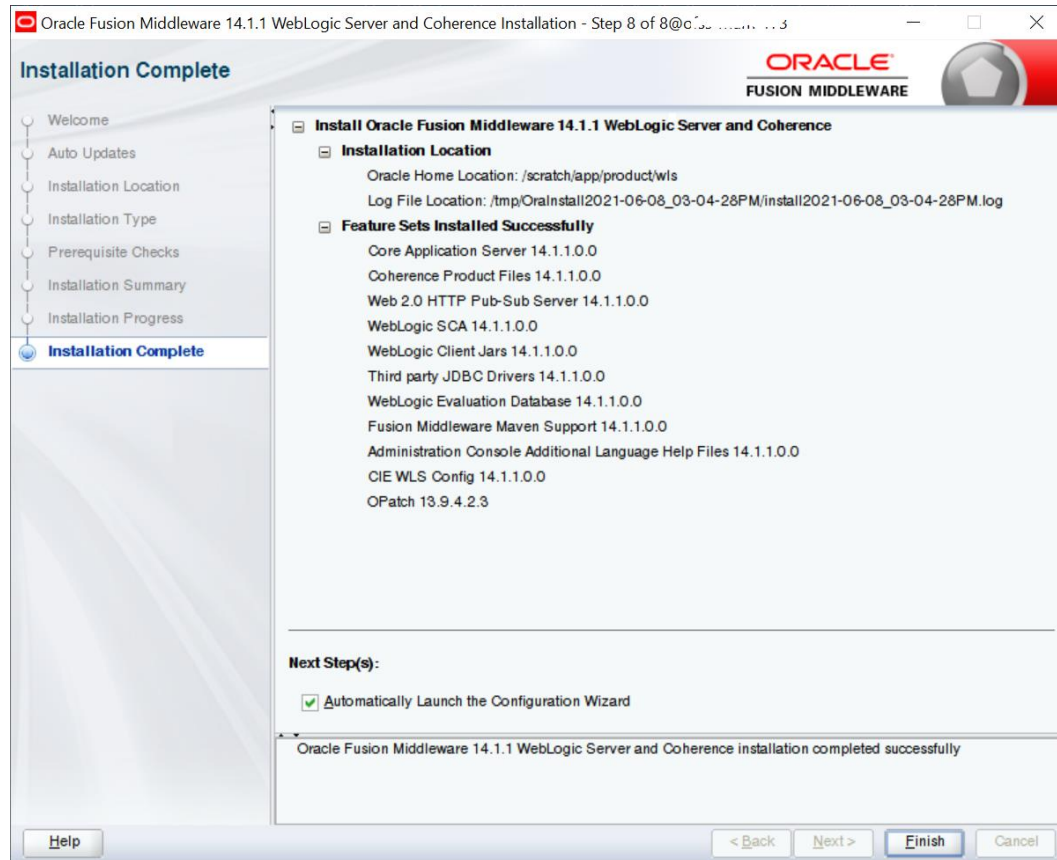
This screen summarizes the installation that was just completed.

At the end of the summary information, there is a section called Installation Location which states the Oracle Home Location & the Log File Location along with the list of features installed.

Click **Finish**.

3.1.3 Verifying the Installation

You 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.

4. 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. See Section 1.3.1 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 4.1, "Installing and Configuring Oracle HTTP Server (Webtier)"

- Section 4.2, "Verifying the Installation"

4.1 Installing and Configuring Oracle HTTP Server (OHS)

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.

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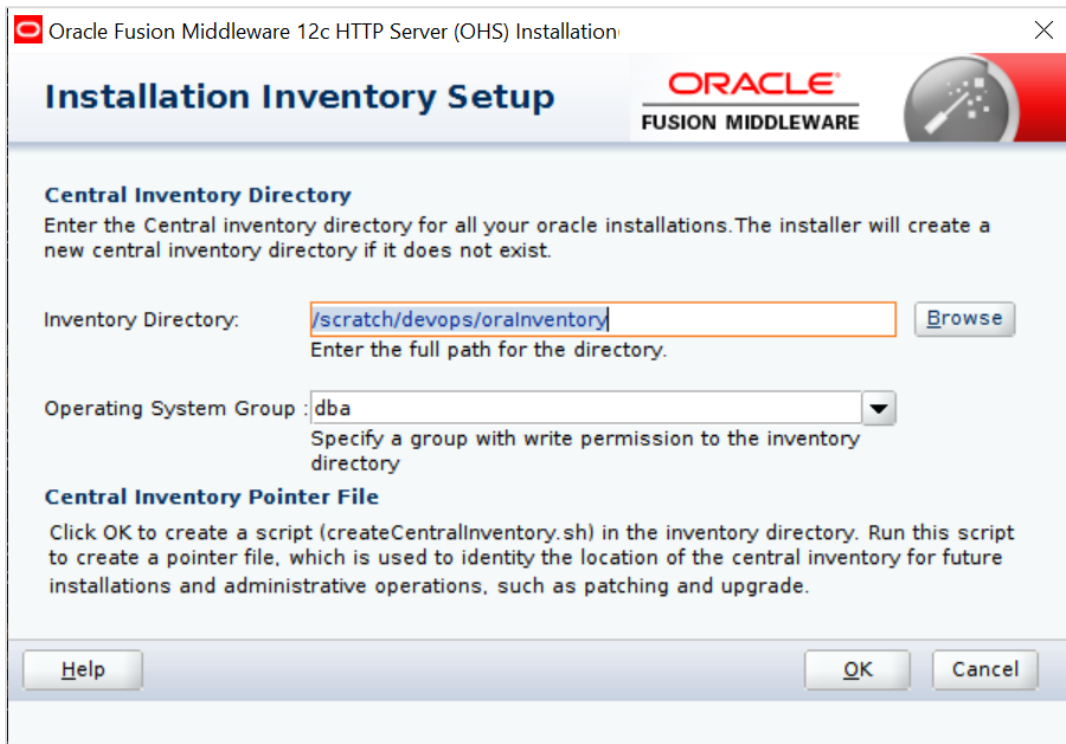
This screen appears for UNIX systems only; if this is your first Oracle installation on this host, you must specify the location of the inventory directory. This inventory directory is used by the installer to keep track of all Oracle products installed on the computer. The default inventory location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

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Welcome Screen

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

Click **Next** to continue.

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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.)
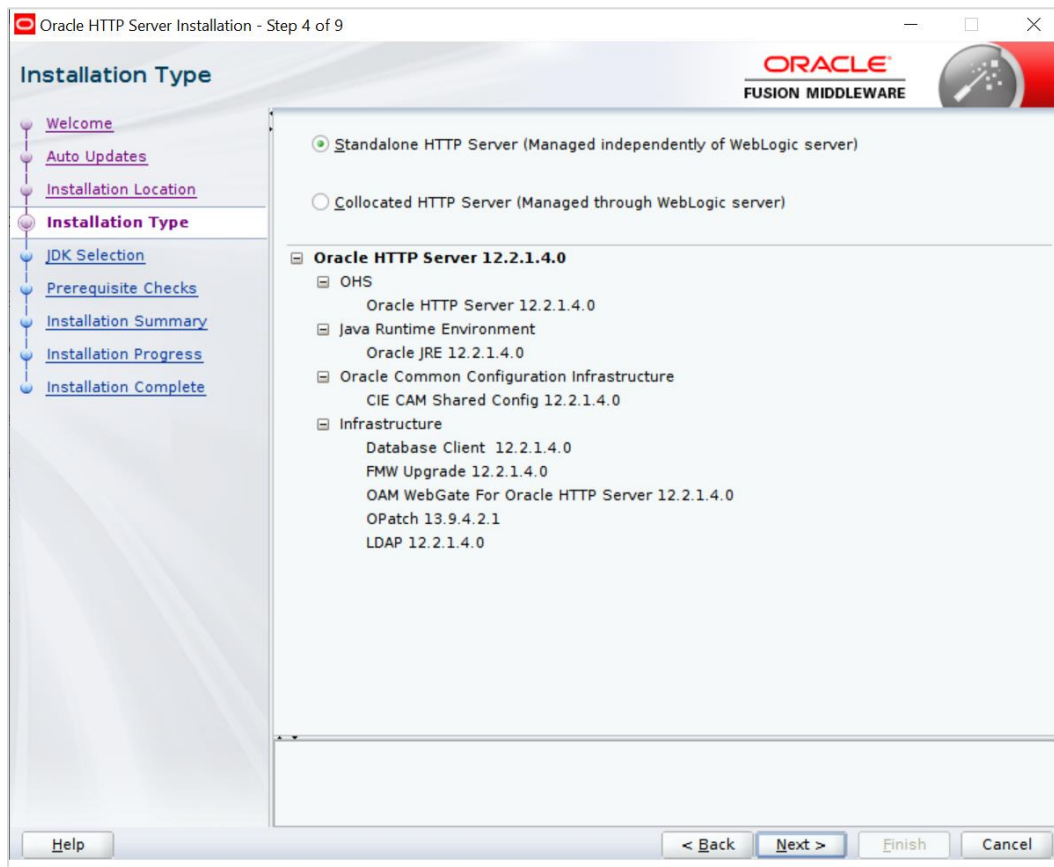
Select Installation Location
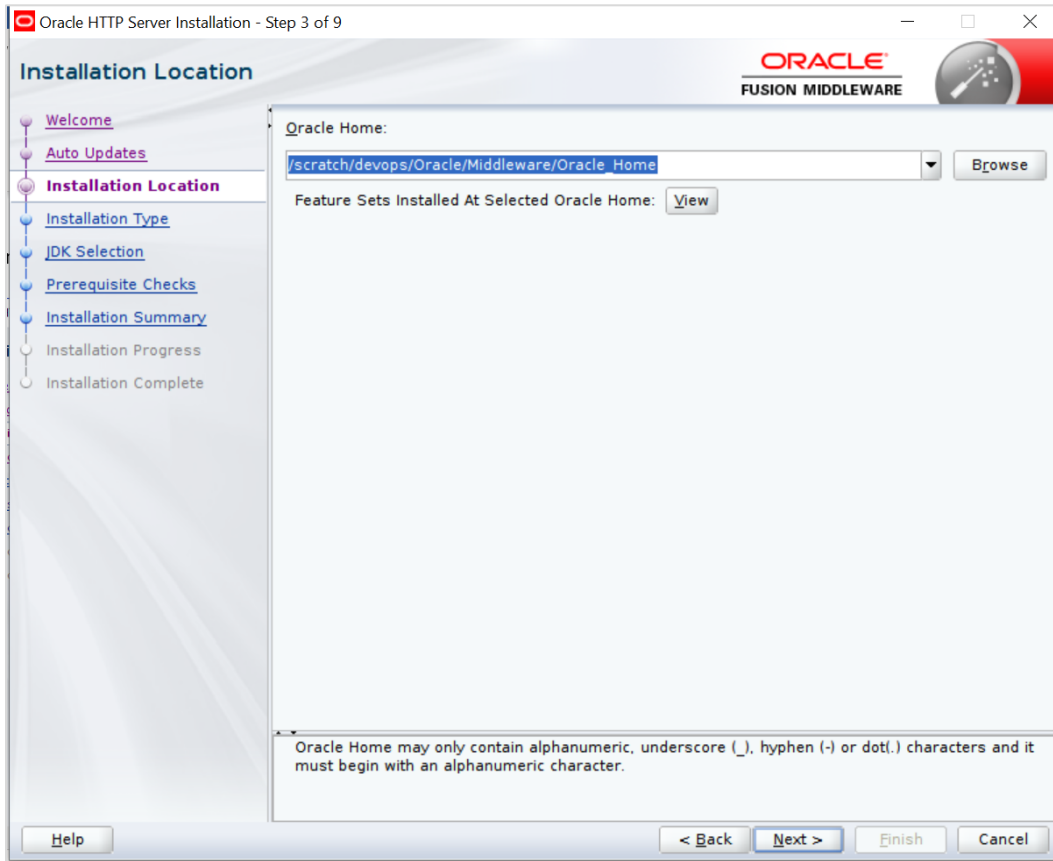
Specify the following installation locations:

- 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)
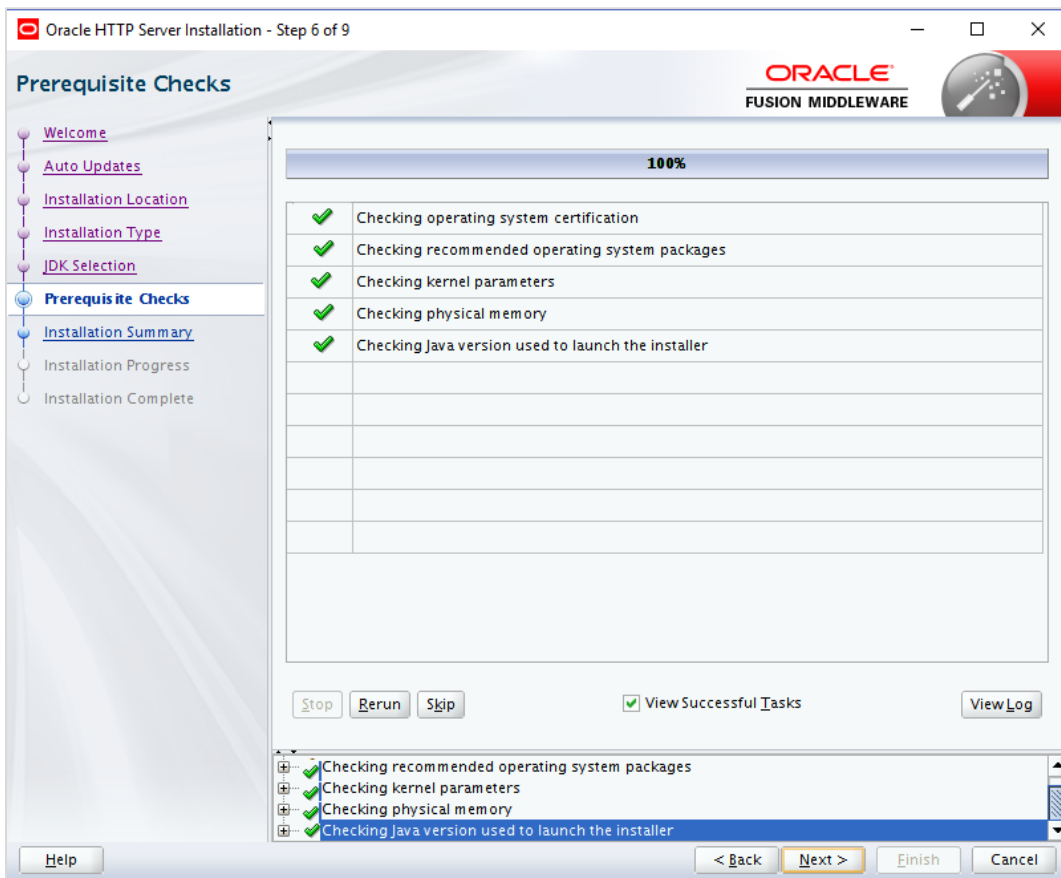
Choose installation type as per requirement. Select Standalone HTTP Server (Managed Independently of Weblogic Server). Click **Next** to continue.

Select JDK home
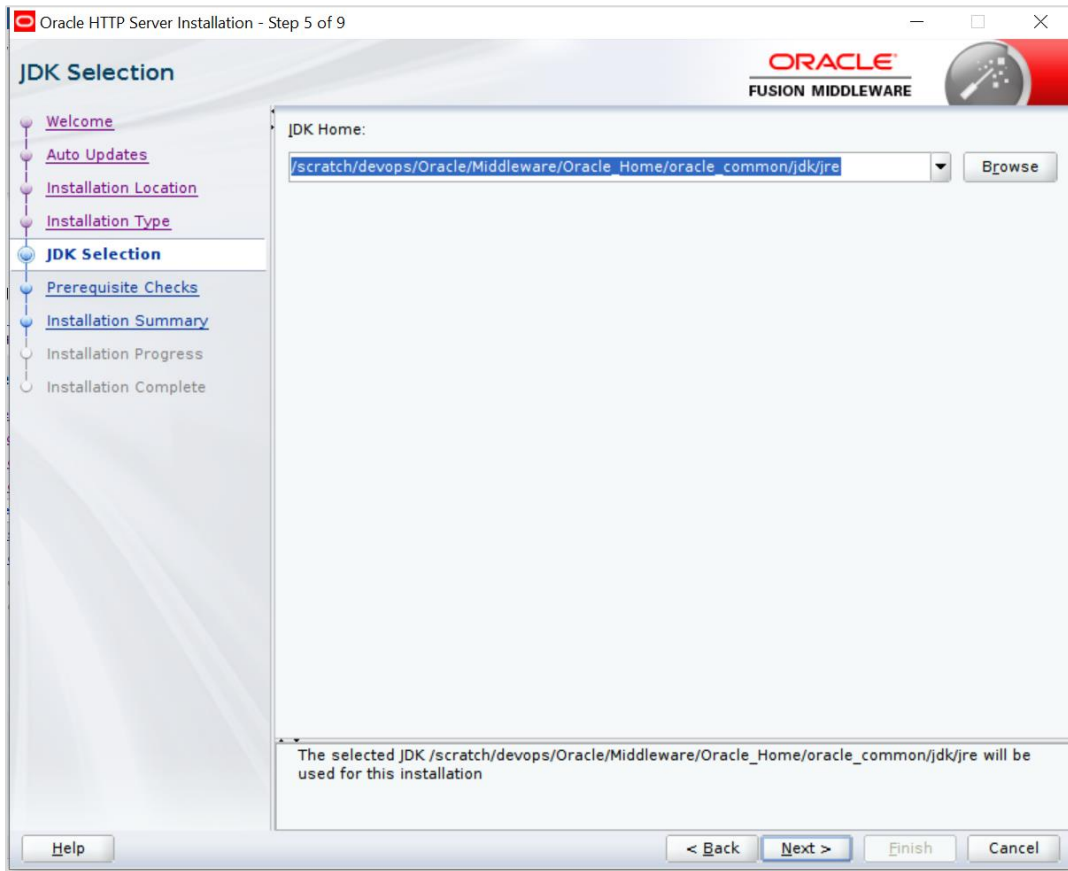
Click **Next** to continue

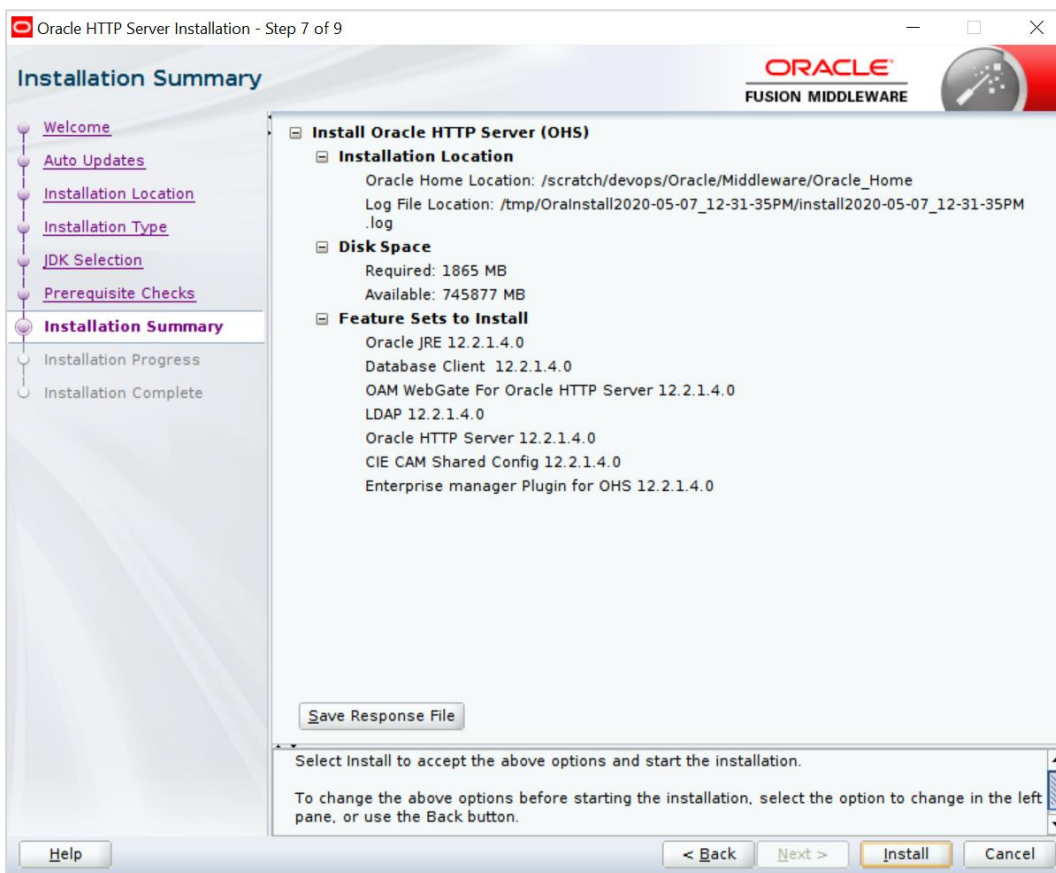ORACLE®

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.
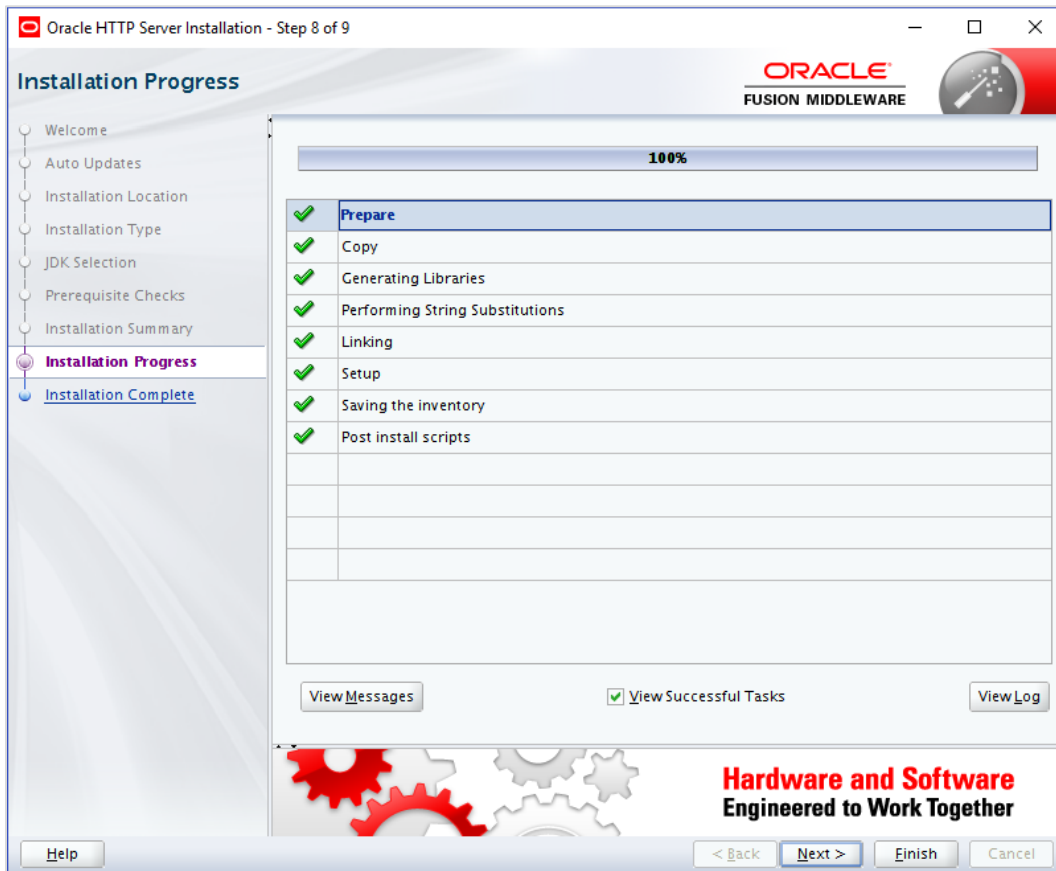
Installation Summary

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.
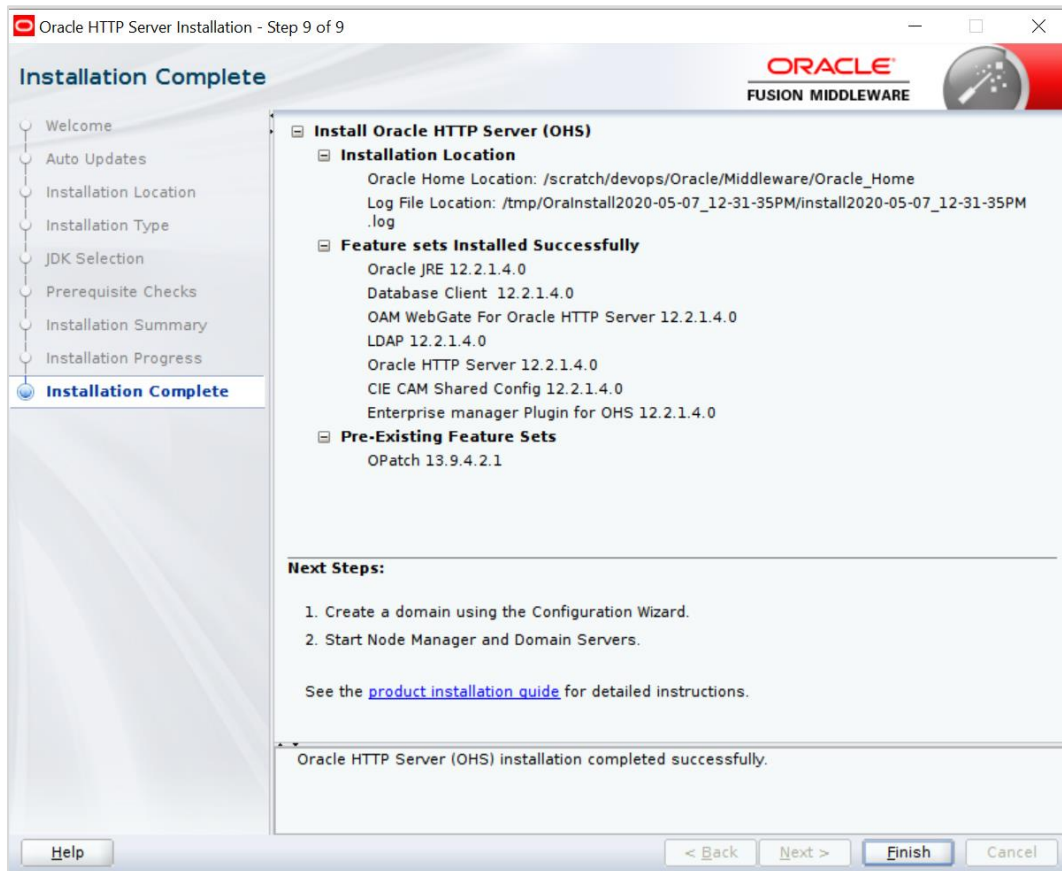
Click **Install**.

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.

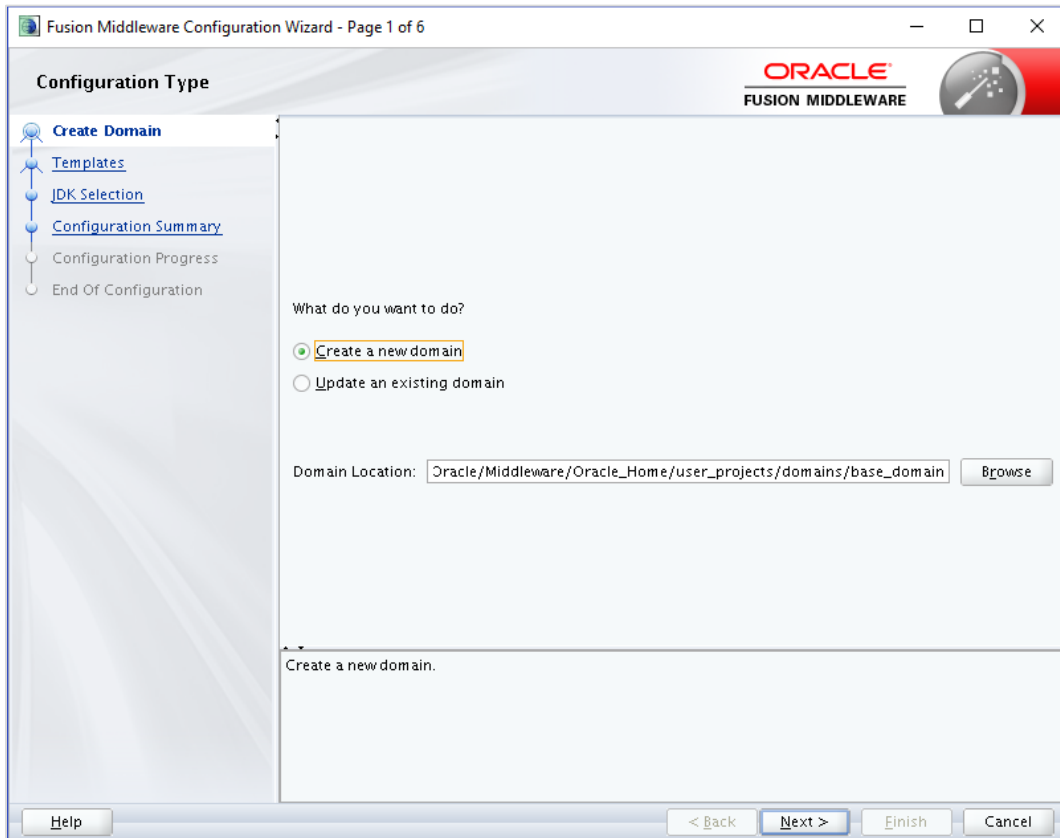Click **Finish** to dismiss the screen.

Configure the HTTP server
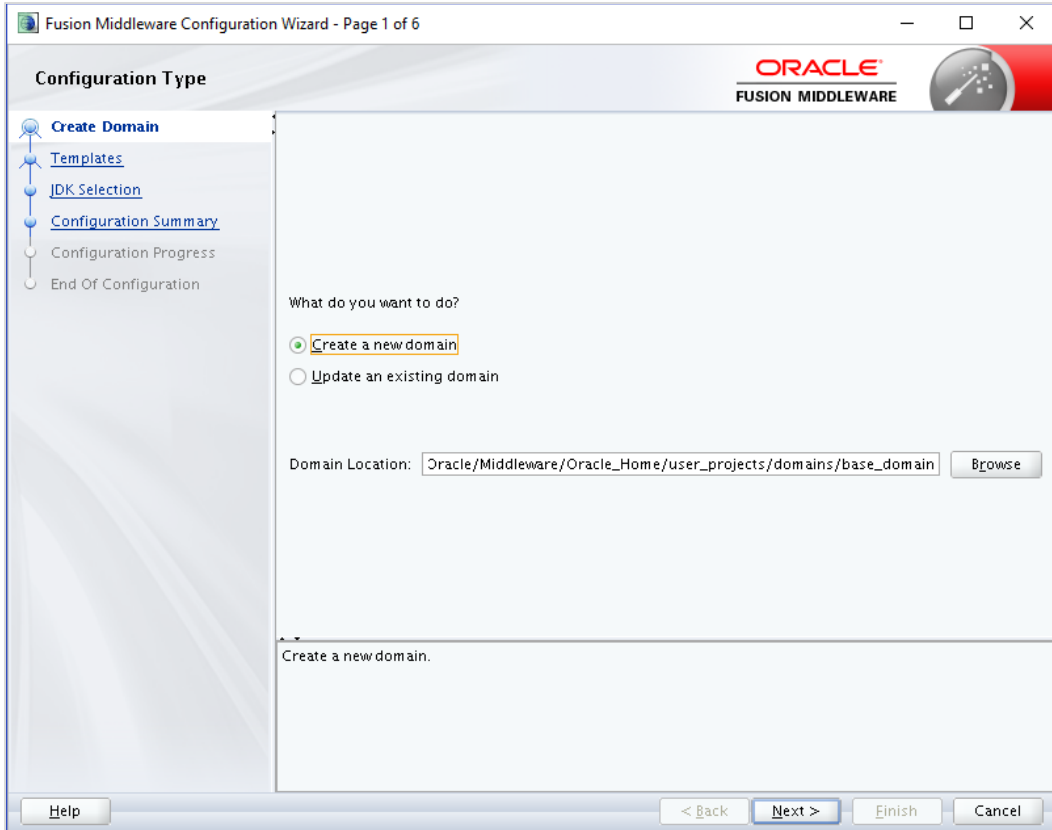
Follow below steps to configure domain for HTTP server

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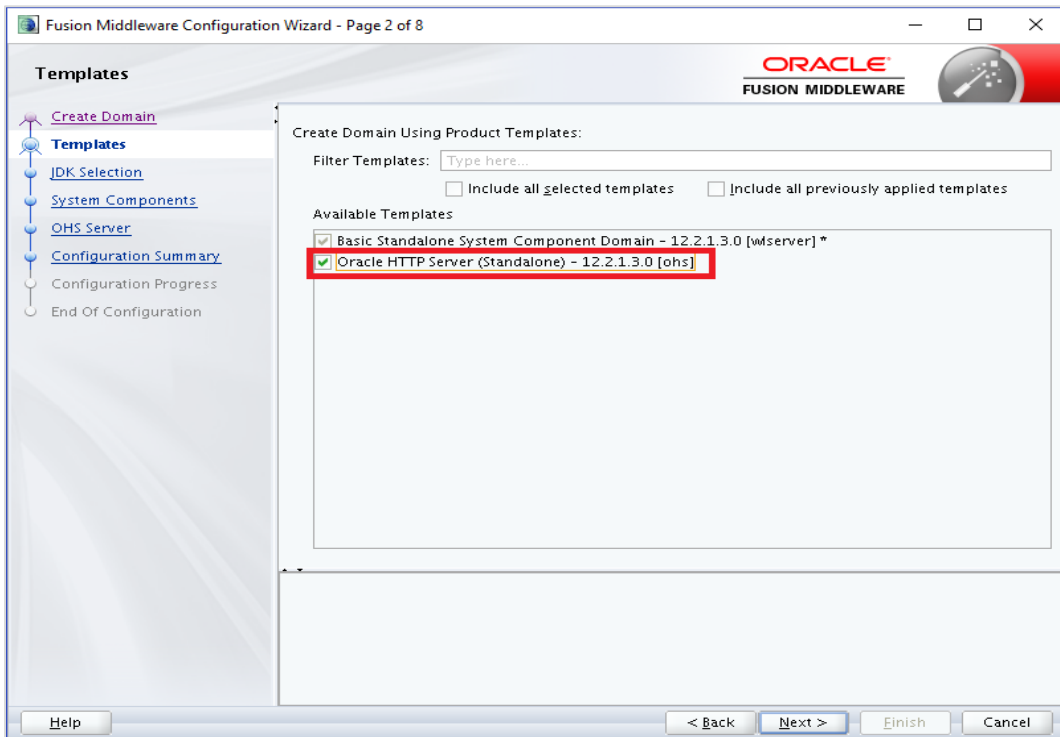
2. Execute below command

   ./config.sh

   Below screen will be displayed

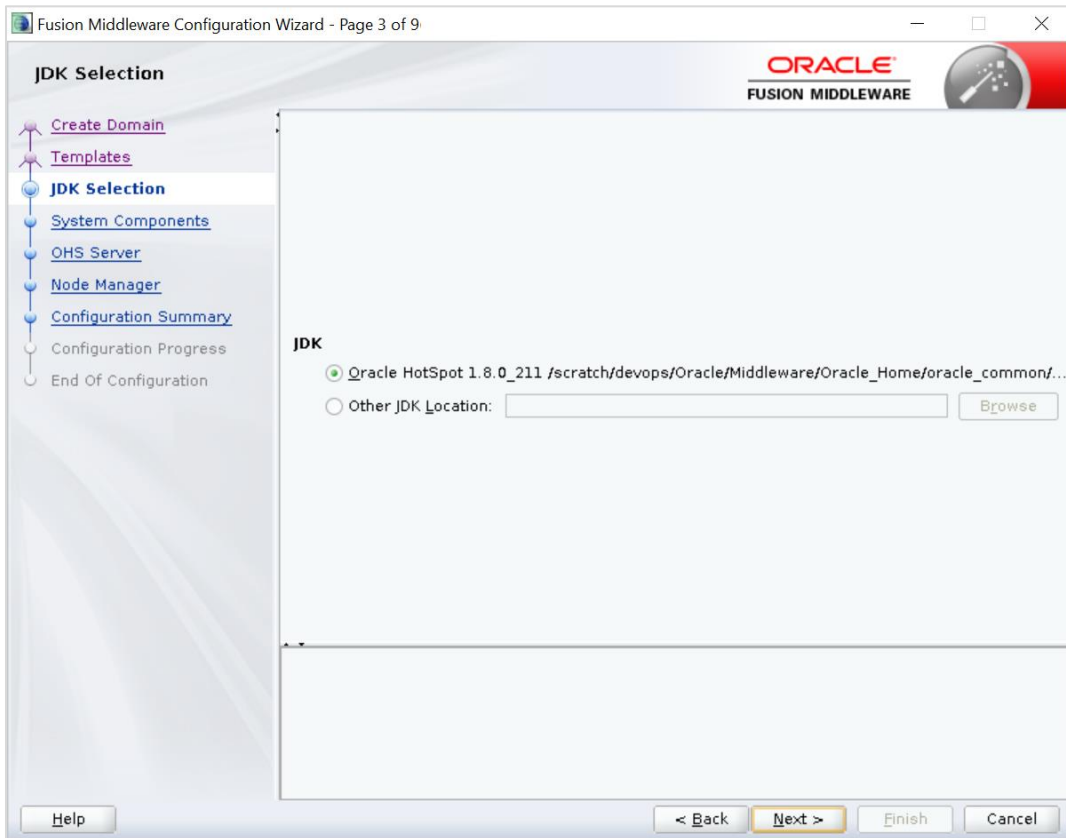3. Select "Create a new domain" option and select Domain location. Click **Next**.

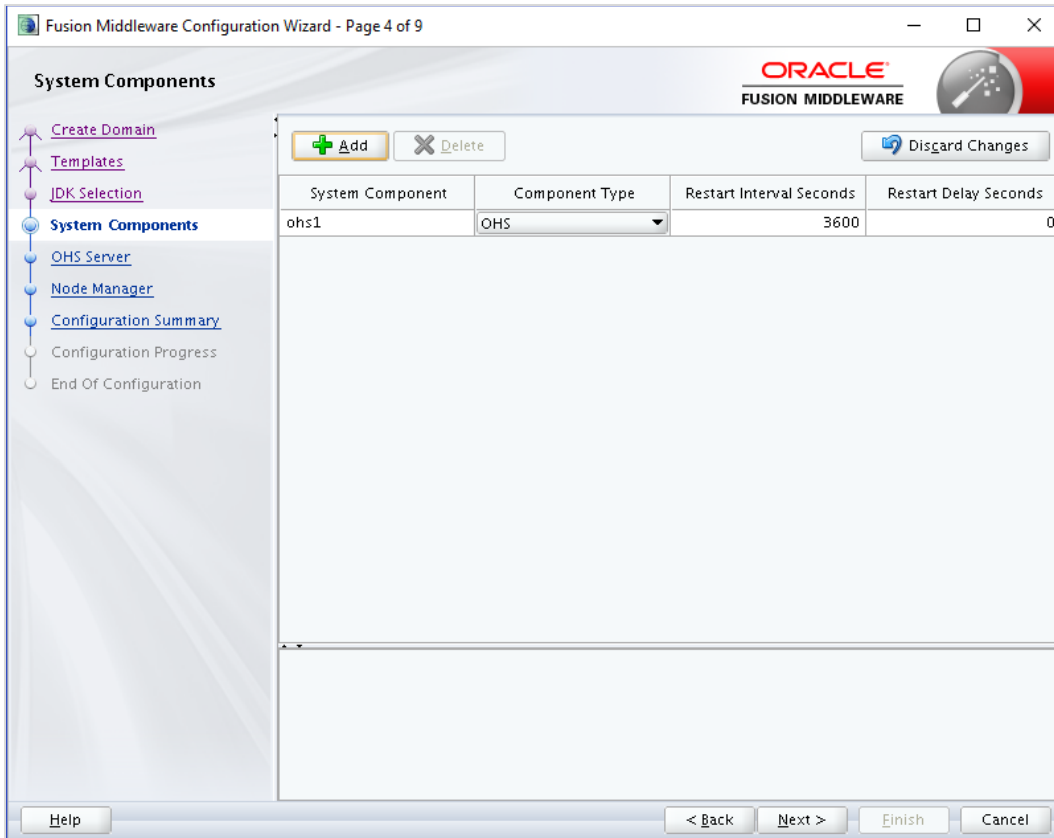4. Select Oracle HTTP Server option and click Next

5.   Click **Next.**

6.   Enter below details and click **Next**.
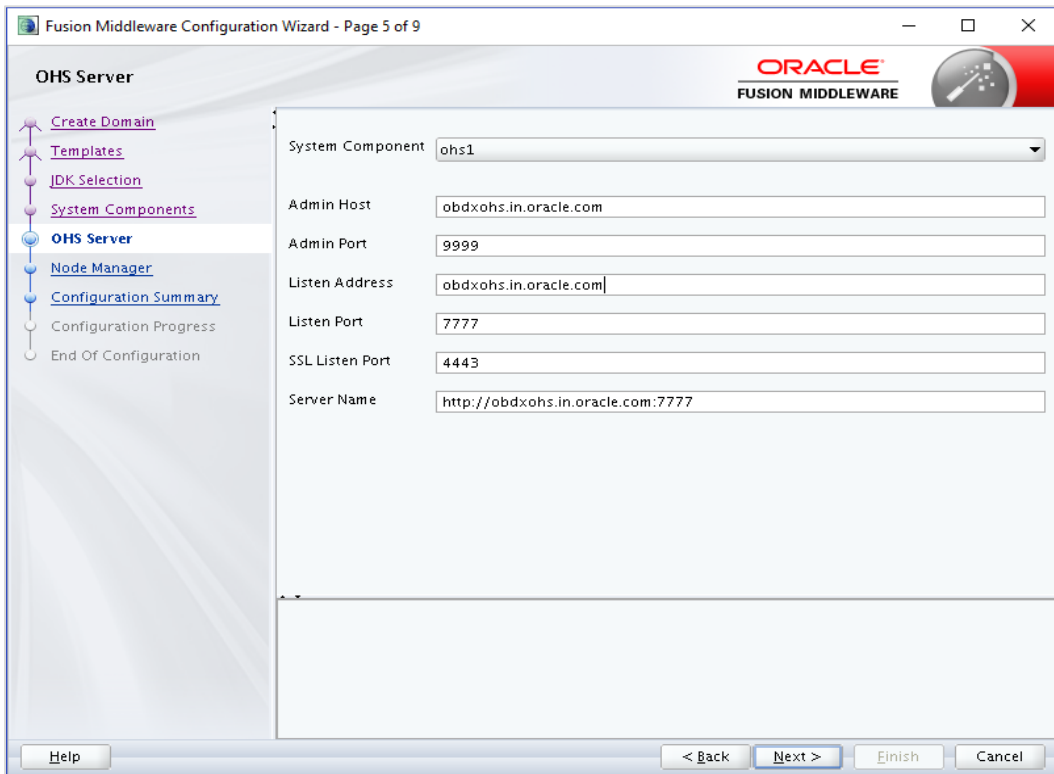
System Component: Set the Instance name

Component Type: Should be OHS

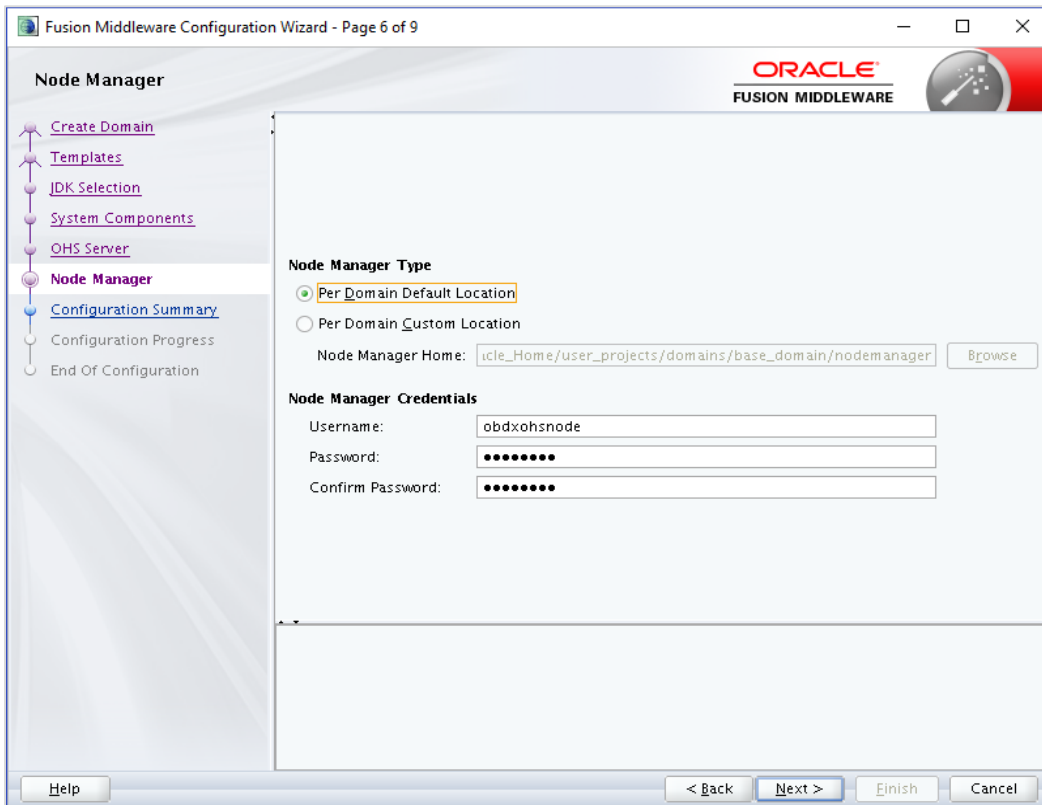Restart Interval Seconds: Set as per requirement. Defaults to 3600

Restart Delay Seconds: Set as per requirement. Defaults to 0
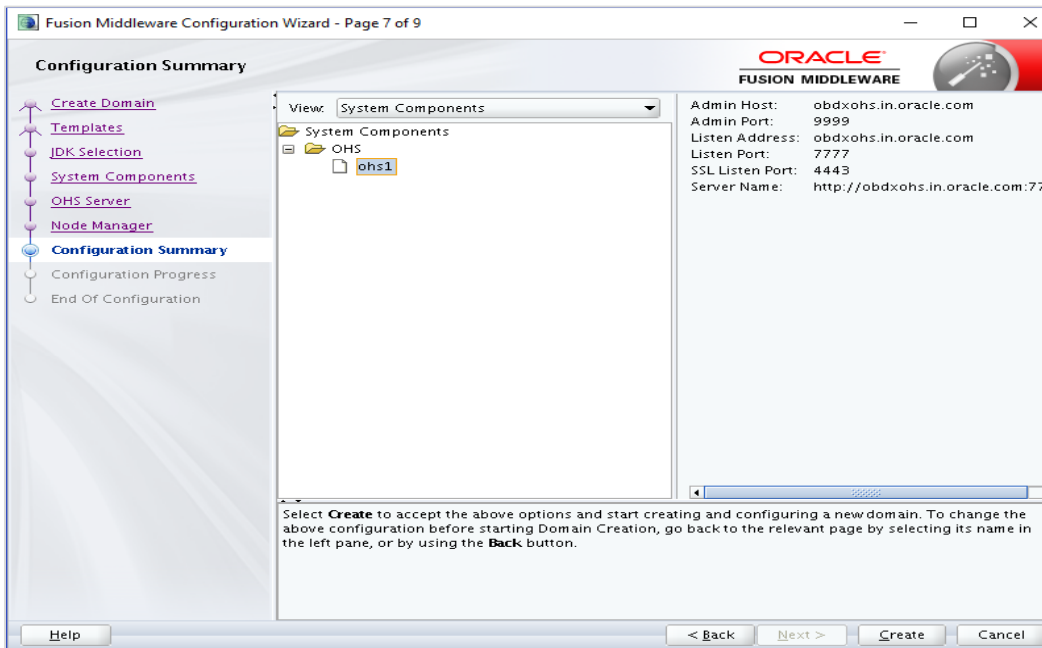
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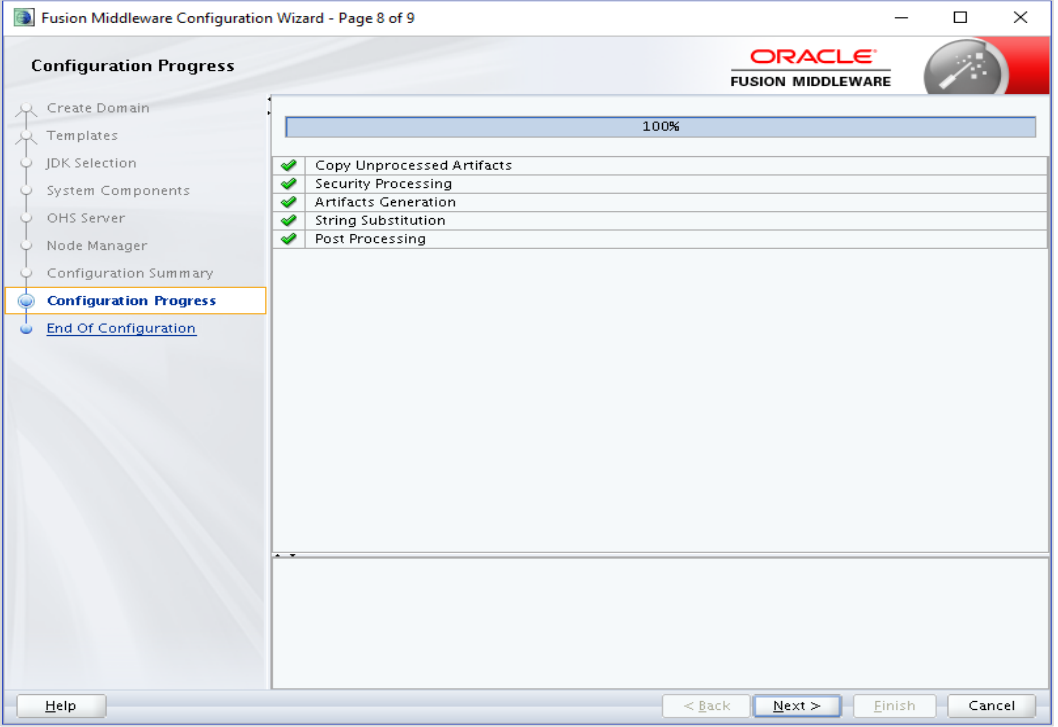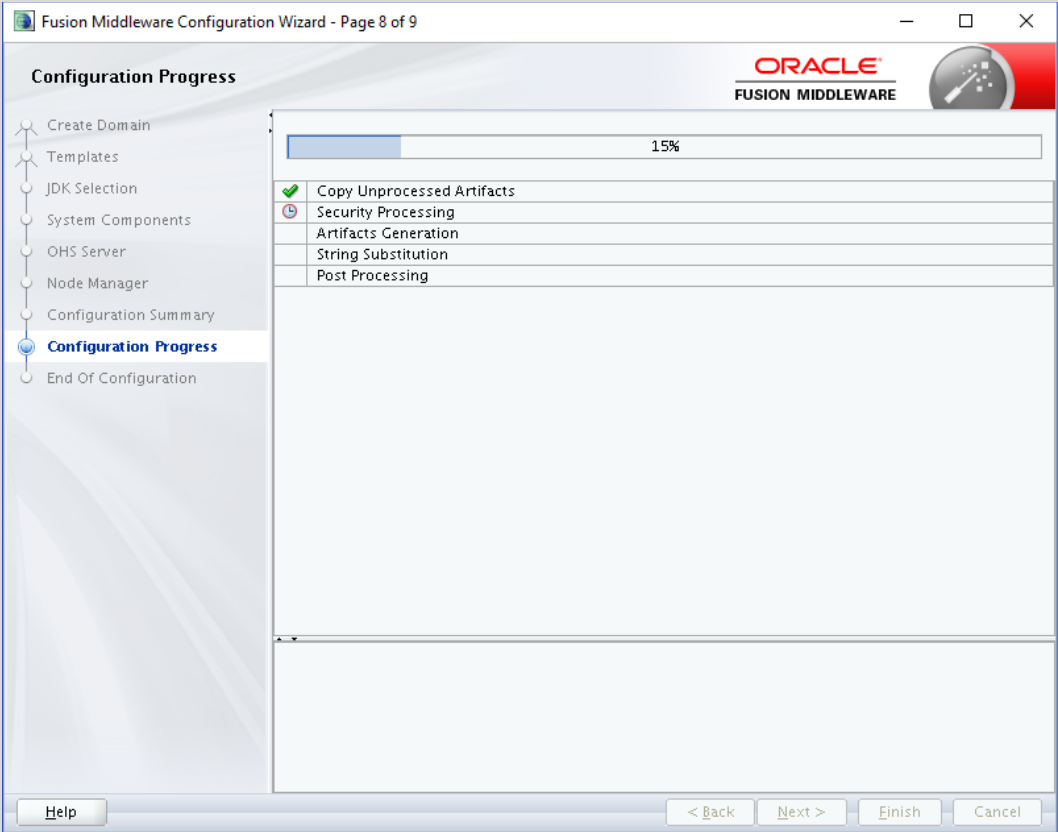7. Configure Admin Host; Port; Listen Address and click **Next**.

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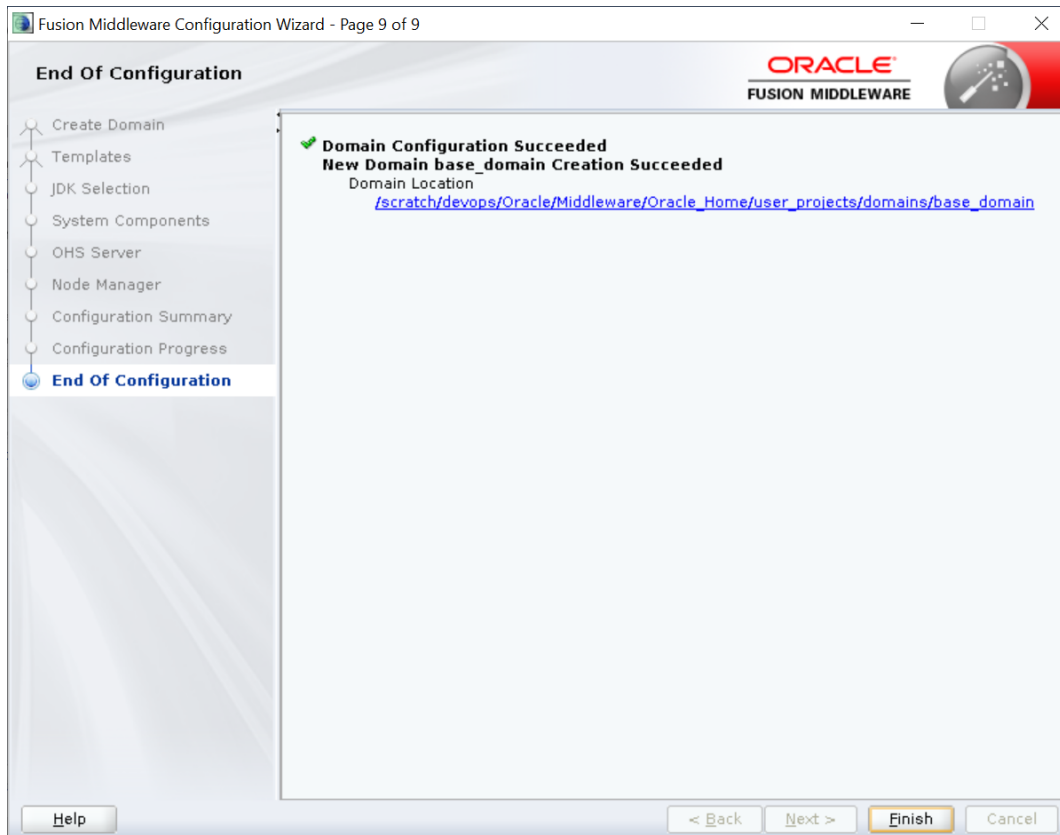8. Select appropriate Node Manager Type; and enter Node Manager Credentials. Click **Next**.

9. Review summary and click **Create**.

10. Below installation progress can be seen

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4.2   Verifying the 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:

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http://<HTTPSERVERHOSTNAME>:<HTTPSERVERLISTENPORT>

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5. Oracle HTTP Server Webgate Installation and Configuration

A WebGate is a web-server plug-in for Oracle Access Manager (OAM) that intercepts HTTP requests and forwards them to the Access Server for authentication and authorization.

Installing a WebGate for Oracle Access Manager involves the following steps:

- Section 5.1, " Configuring Oracle Webgate"

- Section 5.2, "Post-Installation Steps for Oracle HTTP Server WebGate"

- Section 5.3, "Verifying the Installation and Configuration of Oracle HTTP Server WebGate"

- Section 5.4, "Registering the New Oracle HTTP Server 12c WebGate"

5.1 <u>Configuring Oracle Webgate</u>

You must complete the following steps after installing Oracle HTTP Server for Oracle Access Manager:

- Go to the Oracle_Home/webgate/ohs/tools/deployWebGate directory by running the following command:

  *cd
  /scratch/devops/Oracle/Middleware/Oracle_Home/webgate/ohs/tools/deployWebGa
  te*

- Run the following command to copy the required bits of agent from the `Oracle_Home` directory to the `OHS_Master_Config_Directory` location:

  `./deployWebGateInstance.sh -w OHS_Master_Config_Directory -`
  `oh Oracle_Home`

  `For` .*e.g:*

  *./deployWebGateInstance.sh -w
  /scratch/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_do
  main/config/fmwconfig/components/OHS/ohs1 -oh
  /scratch/devops/Oracle/Middleware/Oracle_Home*

```
        _deployWebGate]$ ./deployWebGateInstance.sh -w /scratch/devops/Oracle/Middleware/Oracle_Home/user_projects/d
omains/base_domain/config/fmwconfig/components/OHS/ohs1 -oh /scratch/devops/Oracle/Middleware/Oracle_Home
Copying files from WebGate Oracle Home to WebGate Instancedir
```

In this command:

`Oracle_Home` is the directory in which you have installed Oracle HTTP Server WebGate. Example: /scratch/devops/Oracle/Middleware/Oracle_Home

`OHS_Master_Config_Directory` is the location of the directory where the main Oracle HTTP Server configuration files are kept.

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Example:
/scratch/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/ohs1 Run the following command to ensure that the LD_LIBRARY_PATH variable contains Oracle_Home_for_Oracle_HTTP_Server/lib:

export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:*Oracle_Home*/lib From your present working directory, move to directory:

cd *Oracle_Home*`/webgate/ohs/tools/setup/InstallTools`

*cd
/scratch/devops/Oracle/Middleware/Oracle_Home/webgate/ohs/tools/setup/InstallT
ools/* On the command line, run the following command to copy
the **apache_webgate.template** file from the **Oracle_Home** directory to the main Oracle HTTP Server configuration directory (re-named to **webgate.conf**) and update the **httpd.conf** file to add one line to include the name
of **webgate.conf**:**./EditHttpConf -w *OHS_Master_Config_Directory* [-
oh *Oracle_Home*] [-o *output_file*]**

For e.g.:

*./EditHttpConf -w
/scratch/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_do
main/config/fmwconfig/components/OHS/ohs1 -oh
/scratch/devops/Oracle/Middleware/Oracle_Home*

```
          InstallTools]$ ./EditHttpConf -w /scratch/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_d
omain/config/fmwconfig/components/OHS/ohs1 -oh /scratch/devops/Oracle/Middleware/Oracle_Home
The web server configuration file was successfully updated
/scratch/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/ohs1/httpd.c
onf has been backed up as /scratch/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/c
omponents/OHS/ohs1/httpd.conf.ORIG
```

In this command:

Oracle_Home is the directory in which you have installed Oracle HTTP Server WebGate for Oracle Access Manager. Example: */scratch/devops/Oracle/Middleware/Oracle_Home*

OHS_Master_Config_Directory is the location of the directory where the main Oracle HTTP Server configuration files are kept. Example: */scratch/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/ohs1*

output_file is the name of the WebGate configuration file generated by the tool. A default **webgate.conf** file is generated if you do not specify this option. Example: **webgate.conf**

Note: The -oh Oracle_Home and -o output_file parameters are optional.

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5.2   Verifying the configuration of Oracle HTTP Server 12c WebGate

After installing Oracle HTTP Server 12*c* WebGate for Oracle Access Manager and completing the configuration steps, you can examine the `installDATE-TIME_STAMP.out` log file to verify the installation. The default location of the log are as follows: The default location of the log is : `Oracle_Home/oraInst.loc`

5.3   Registering the New Oracle HTTP Server 12c WebGate

Before you can use the new Oracle HTTP Server 12c WebGate agent for Oracle Access Manager, you must register the new WebGate agent with Oracle Access Manager by using the Oracle Access Manager Administration Console.

Refer to the Section 8.1 "Creating WebGate Agent on OAM Console" under Oracle Access Management Configuration chapter.

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6. Oracle Analytics Publisher Installation

To install Oracle Analytics Publisher Installation refer
https://docs.oracle.com/en/middleware/bi/analytics-server/index.html

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