

Oracle Banking Digital Experience

**Installer Pre-Requisite Setup Guide
Release 19.1.0.0.0**

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1. Preface

1.1 Intended Audience

This document is intended for the following audience:

- Customers
- Partners

1.2 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>.

1.3 Access to Oracle Support

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

<http://www.oracle.com/pls/topic/lookup?ctx=accandid=info> or visit

<http://www.oracle.com/pls/topic/lookup?ctx=accandid=trs> if you are hearing impaired.

1.4 Structure

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
- Configuration / Installation of pre-requisite software's

1.5 Related Information Sources

For more information on Oracle Banking Digital Experience Release 19.1.0.0.0, refer to the following documents:

- Oracle Banking Digital Experience Licensing Guide

2. Introduction

This guide helps you to do the pre-requisite setup required before the execution of OBDX 19.1.0.0.0 Installer.

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

2.1 Software List

Software Name	Version	Mandatory Software
Operating System	ORACLE LINUX 7.x	Y
Oracle Database	12.2.0.1.0	Y
Oracle Java Development Kit	1.8.0_212	Y
Oracle Weblogic Infrastructure	12.2.1.3.0	Y
Oracle HTTP Server	12.2.1.3.0	Y
Oracle Identity and Access Management Suite (IAM)	12.2.1.3.0	N*
LDAP (OUD)	12.2.1.3.0	N*
Oracle Business Intelligence Publisher	12.2.1.4.0	N**
IBCS	18.1.1	N***
Python	2.7.5	Y
Python Package: cx_Oracle	5.2.1	Y
Python Package: urwid	1.3.1	Y
Oracle Client	12.2.0.1	Y

Software Name	Version	Mandatory Software
Oracle Outside In	8.5.4	Required for MS Excel file uploads
		* Required if OBDX Native Authentication is not used and OAM is managing Authentication
		** Required if Integration with Oracle Business Intelligence Publisher is needed.
		*** Required if OBDX Chat bot Banking Features are used.

2.2 Pre-requisite software installation for OBDX Installer

Below steps assume Python 2.7.5 and Oracle Instant client is installed and available on server. You can verify the Python and Oracle client version by executing the command as shown below:

```
[devops@      /]$ python -V
Python 2.7.5
[devops@      /]$

[root@      ]# rpm -qa |grep oracle
oraclelinux-release-7.3-1.0.4.el7.x86_64
oracle-logos-70.0.3-4.0.7.el7.noarch
oracle-instantclient12.2-basic-12.2.0.1.0-1.x86_64
```

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

cx_Oracle

Step 1: Download cx_Oracle from Python packages website.

Note: Kindly ensure correct rpm package is downloaded as per Python (2.7.5) and Oracle database (12c) version.

For e.g.: cx_Oracle-5.2.1-12c-py27-1.x86_64.rpm for Python 2.7.5 and Oracle 12c

Step 2: Login as root onto the server and install the cx_Oracle rpm package (downloaded in earlier section).

For e.g.: We can use below command for installation

```
# rpm -ivh cx_Oracle-5.2.1-12c-py27-1.x86_64.rpm
```

```
[root@      setup]# rpm -ivh cx_Oracle-5.2.1-12c-py27-1.x86_64.rpm
Preparing...                                              #####
Updating / installing...
 1:cx_Oracle-5.2.1-1                                #####

```

Urwid

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

Note: Support version for Urwid is 1.3.1 (urwid-1.3.1.tar.gz)

Step 2: Extract the tar file as shown below

```
[root@      setup]# tar -zxvf urwid-1.3.1.tar.gz
urwid-1.3.1/urwid/tests/test_container.py
urwid-1.3.1/urwid/tests/test_util.py
urwid-1.3.1/urwid/tests/test_vterm.py
urwid-1.3.1/urwid/tests/test_graphics.py
urwid-1.3.1/urwid/tests/test_listbox.py
urwid-1.3.1/urwid/tests/test_widget.py
urwid-1.3.1/urwid/tests/__init__.py
urwid-1.3.1/urwid/tests/test_doctests.py
```

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

```
# python setup.py build_py
```

```
[root@      urwid-1.3.1]# python setup.py build_py
running build_py
creating build
creating build/lib.linux-x86_64-2.7
creating build/lib.linux-x86_64-2.7/urwid
copying urwid/lcd_display.py -> build/lib.linux-x86_64-2.7/urwid
copying urwid/canvas.py -> build/lib.linux-x86_64-2.7/urwid
copying urwid/escape.py -> build/lib.linux-x86_64-2.7/urwid
copying urwid/signals.py -> build/lib.linux-x86_64-2.7/urwid
copying urwid/main_loop.py -> build/lib.linux-x86_64-2.7/urwid
copying urwid/command_map.py -> build/lib.linux-x86_64-2.7/urwid
copying urwid/old_str_util.py -> build/lib.linux-x86_64-2.7/urwid
```

Note: Ensure Python 2.7.5 version should be available in PATH variable. Above execution should be done using Python 2.7.5.

Step 4: Execute below command to perform Urwid installation

```
# python setup.py install
```

```
[root@      urwid-1.3.1]# python setup.py install
running install
running bdist_egg
running egg_info
writing urwid.egg-info/PKG-INFO
writing top-level names to urwid.egg-info/top_level.txt
writing dependency_links to urwid.egg-info/dependency_links.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
running install_lib
running build_py
running build_ext
```

Note: Ensure Python 2.7.5 version should be available in PATH variable. Above execution should be done using Python 2.7.5.

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3. Installing and Configuring Weblogic Infrastructure 12c

This chapter describes the steps for installing the Weblogic Infrastructure version 12.2.1.3.0:

- Section 3.1, "Installing Stand-alone Weblogic"

3.1 Installing Stand-alone Weblogic Infrastructure

Oracle WebLogic Server is a scalable, enterprise-ready Java Platform, Enterprise Edition (Java EE) application server. The WebLogic Server infrastructure 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 1.8"
- Section 3.1.2, "Installing Weblogic Infrastructure"
- Section 3.1.3, "Verifying the Installation"

3.1.1 Pre-requisite - Installing Java 1.8

- Obtain the Java tarball pack from the Oracle Java Downloads. Download `jdk-8u212-linux-x64.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-8u212-linux-x64.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>/jdk1.8.0_212`

`export PATH=$JAVA_HOME/bin:$PATH`

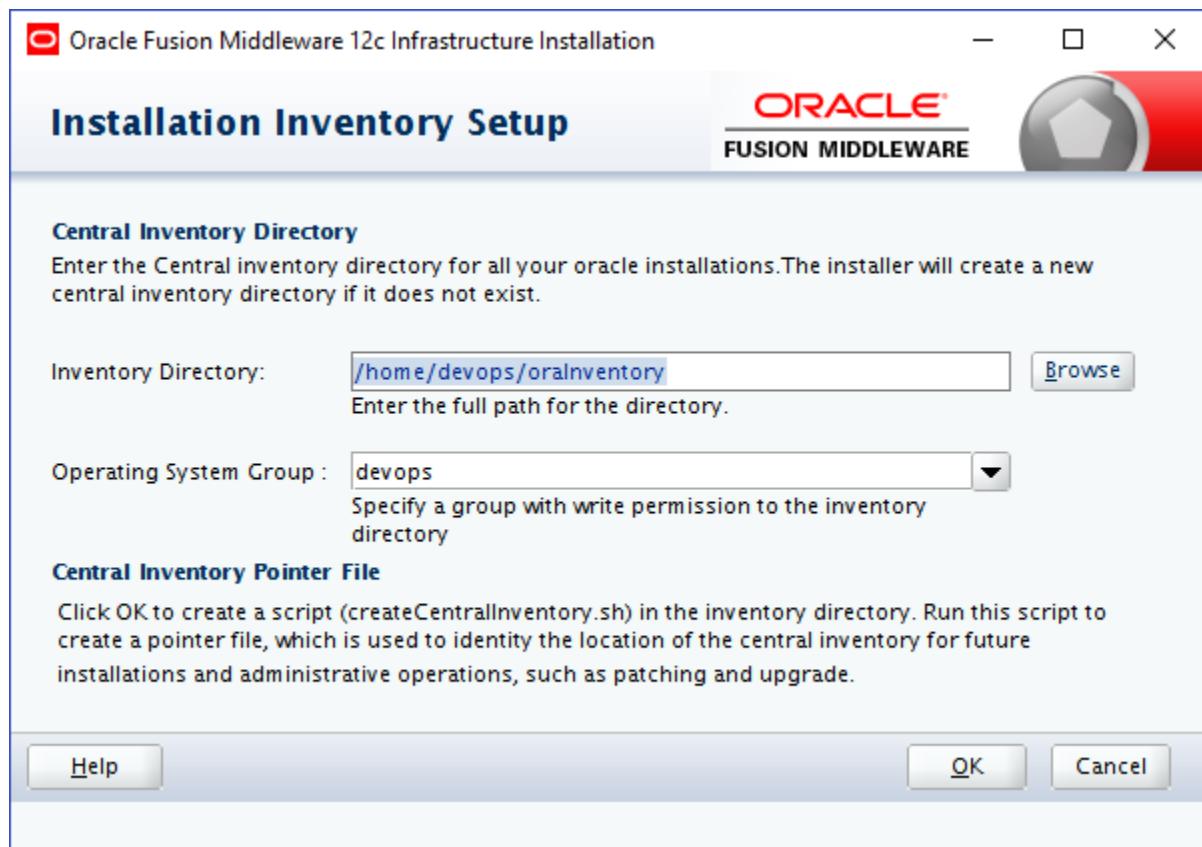
3.1.2 Installing Weblogic

- Obtain Weblogic Infrastructure 12.2.1.3.0 zip from the Oracle Fusion Middleware Downloads. Extract the downloaded zip to get **`fmw_12.2.1.3.0_infrastructure.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_12.2.1.3.0_infrastructure.jar`

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

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.

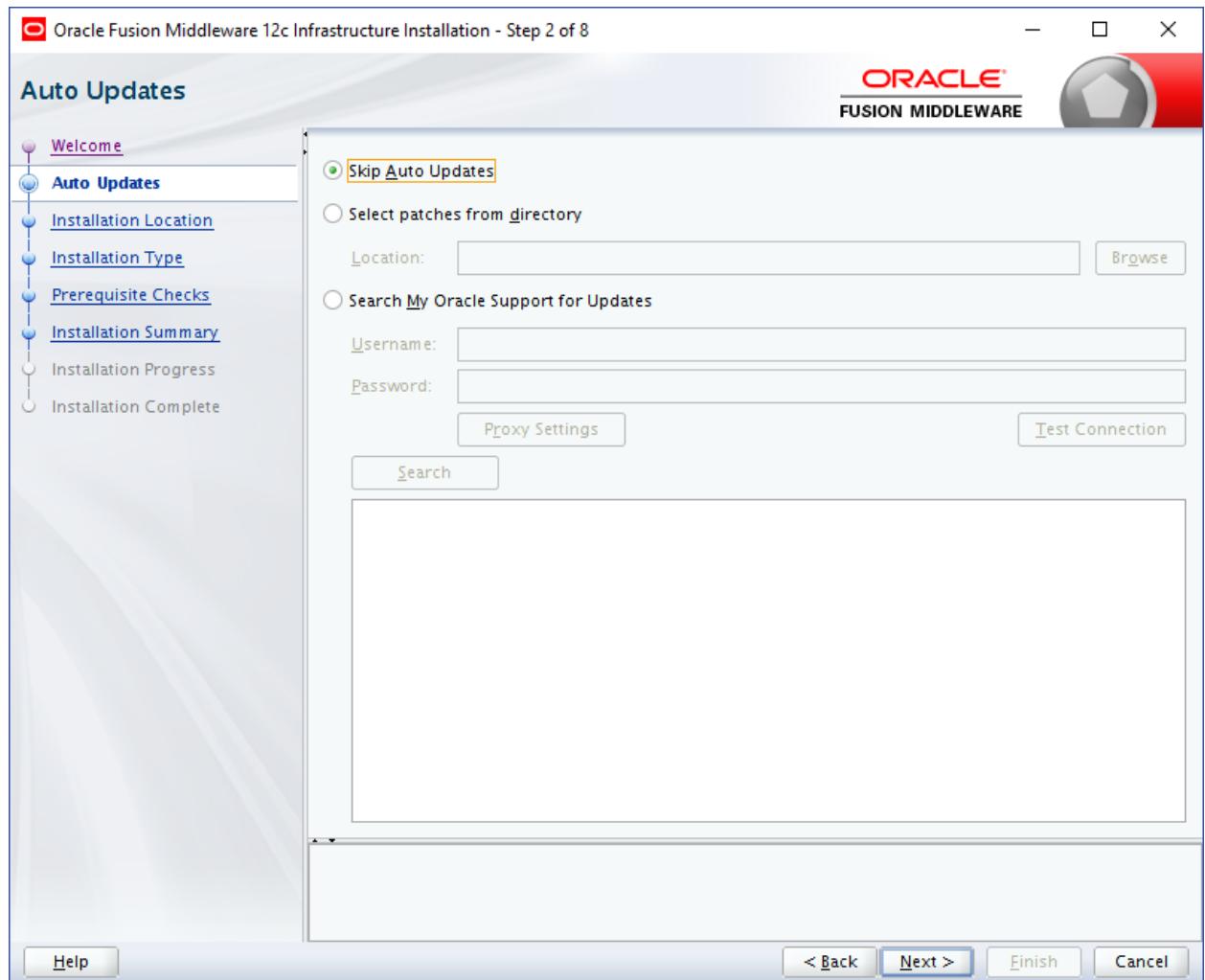
Welcome Screen



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

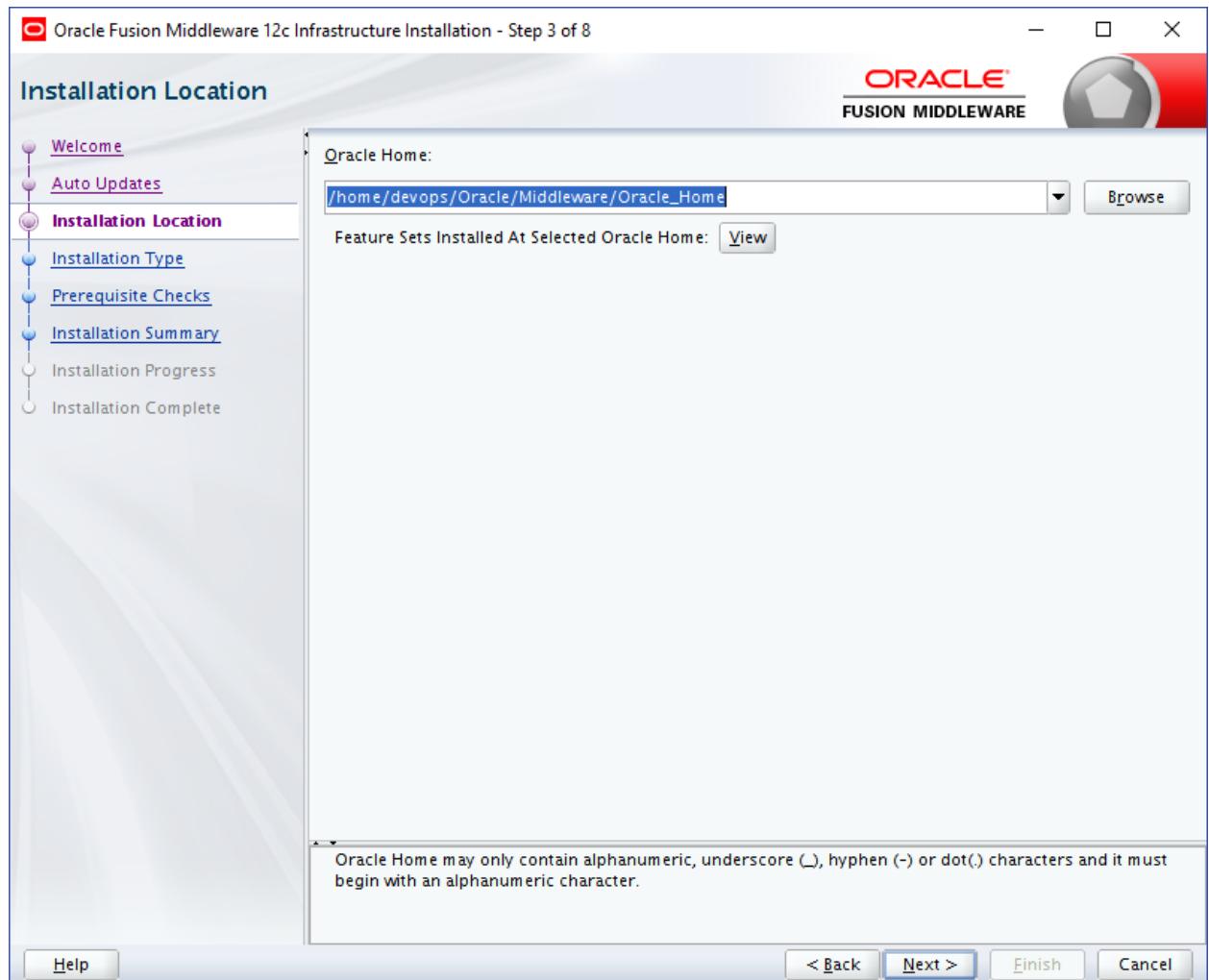
Click Next to continue.

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



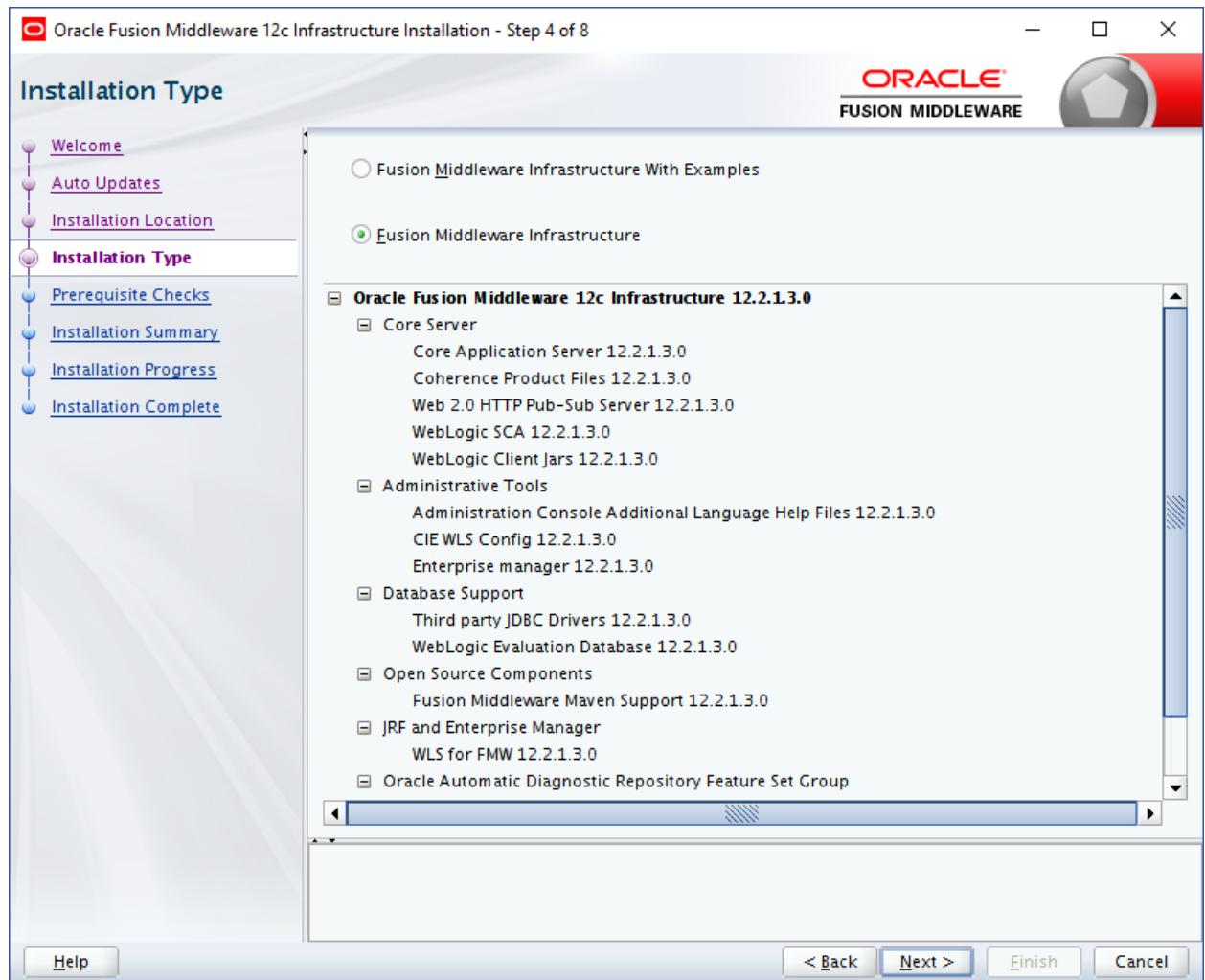
Specify the following installation locations:

- 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

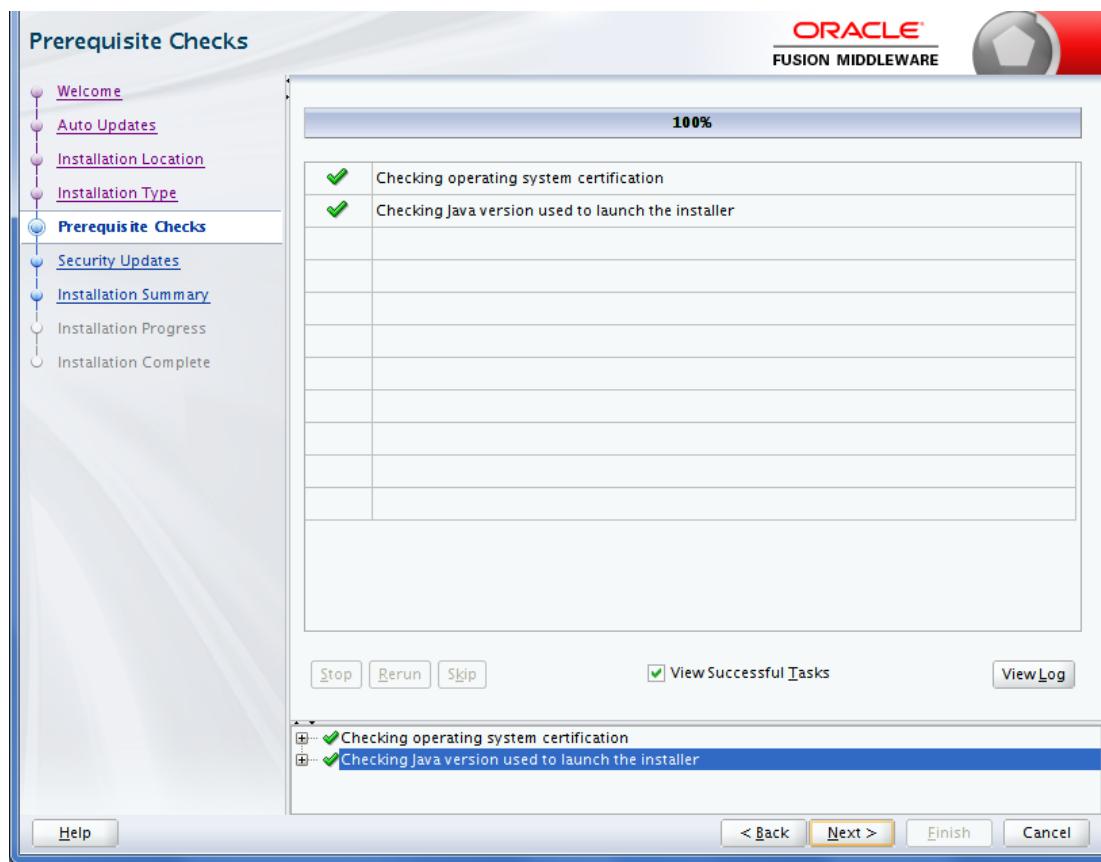


Following are the installation types:

- Fusion Middleware Infrastructure with Examples
- Fusion Middleware Infrastructure

Select Fusion Middleware Infrastructure and Click Next to continue.

Prerequisite Checks Screen

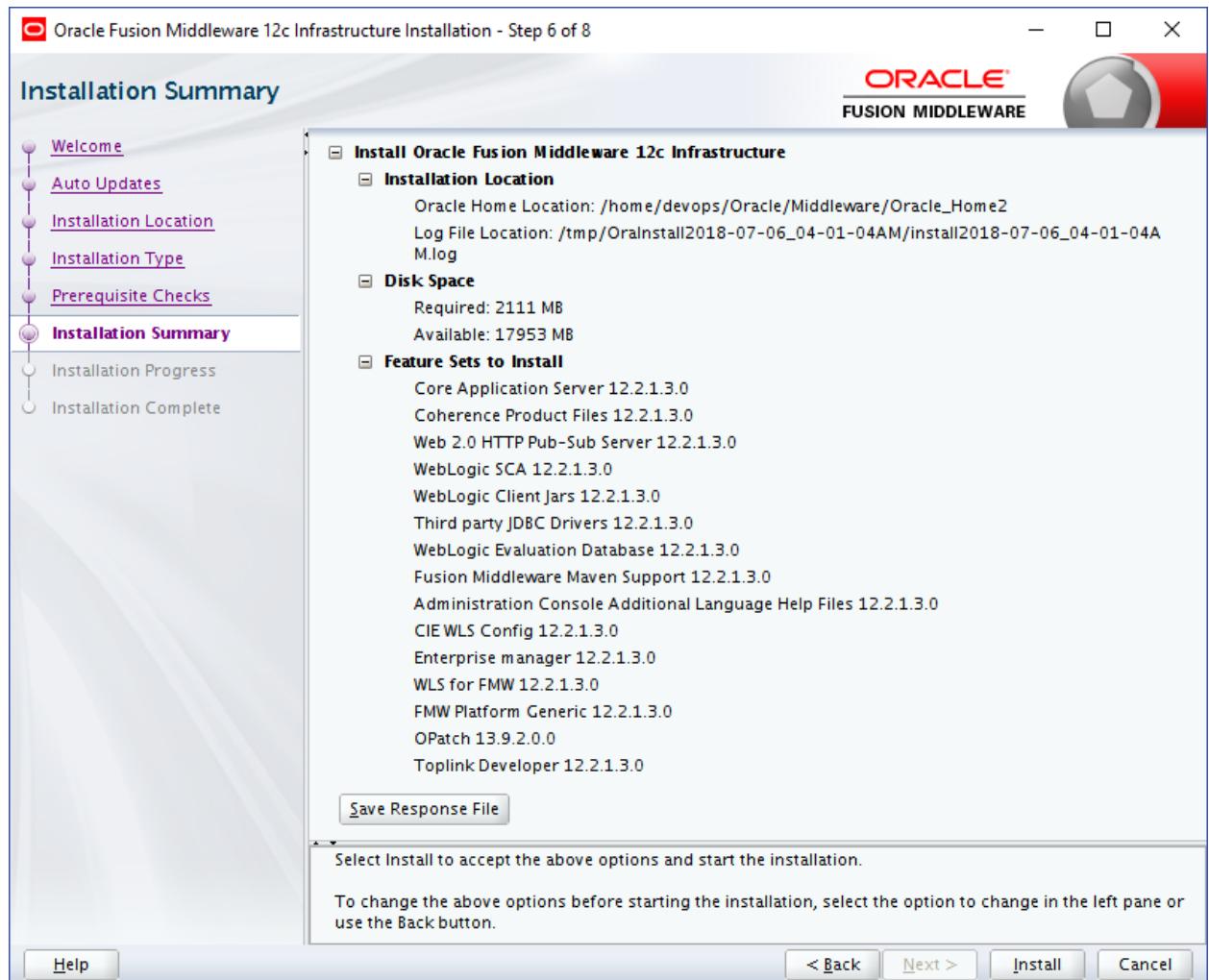


This screen shows whether the system requirements are met in order to install the software.

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**.

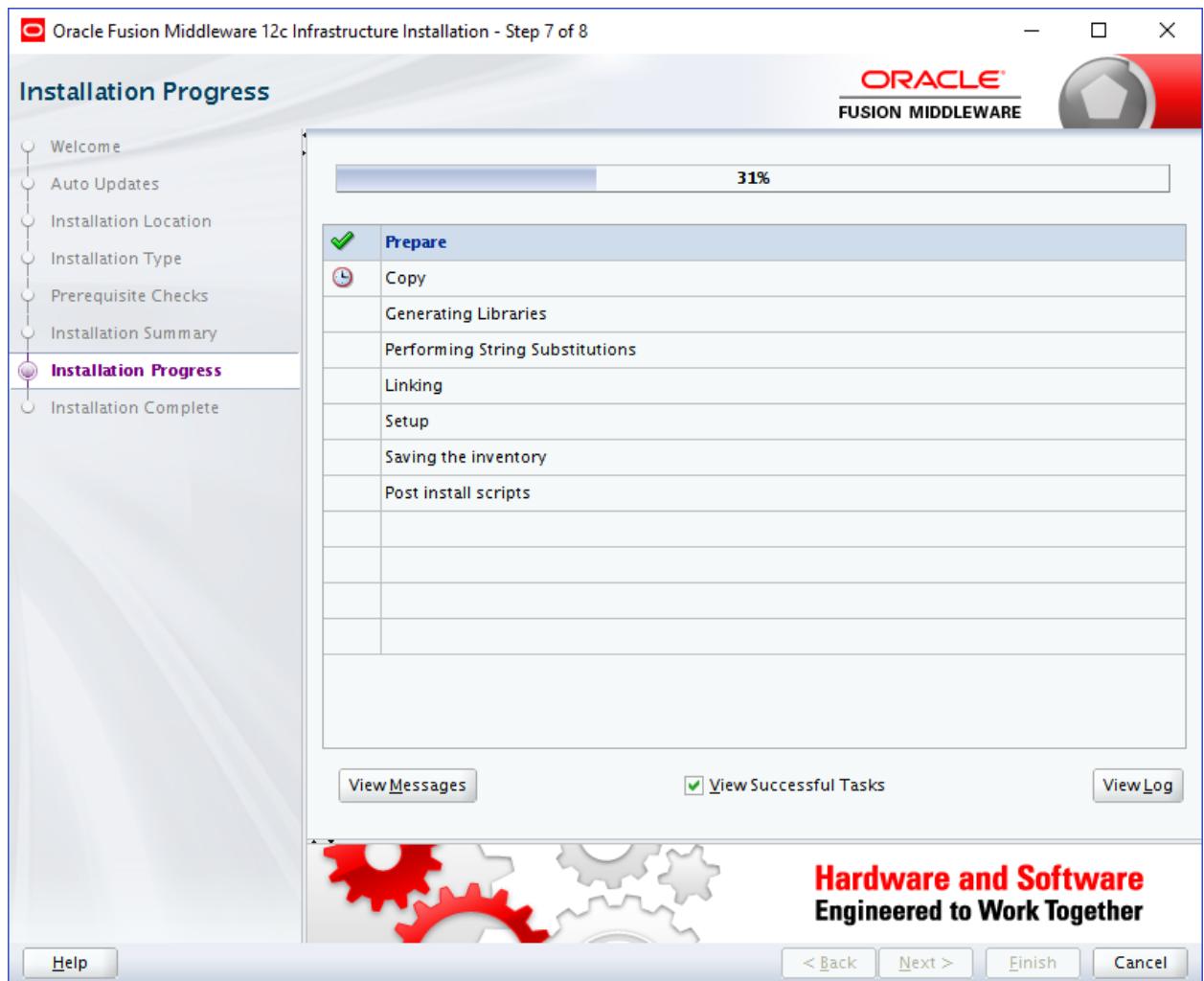
If you want to make any changes to the configuration before starting the installation, use the navigation pane, and select the topic you want to edit.

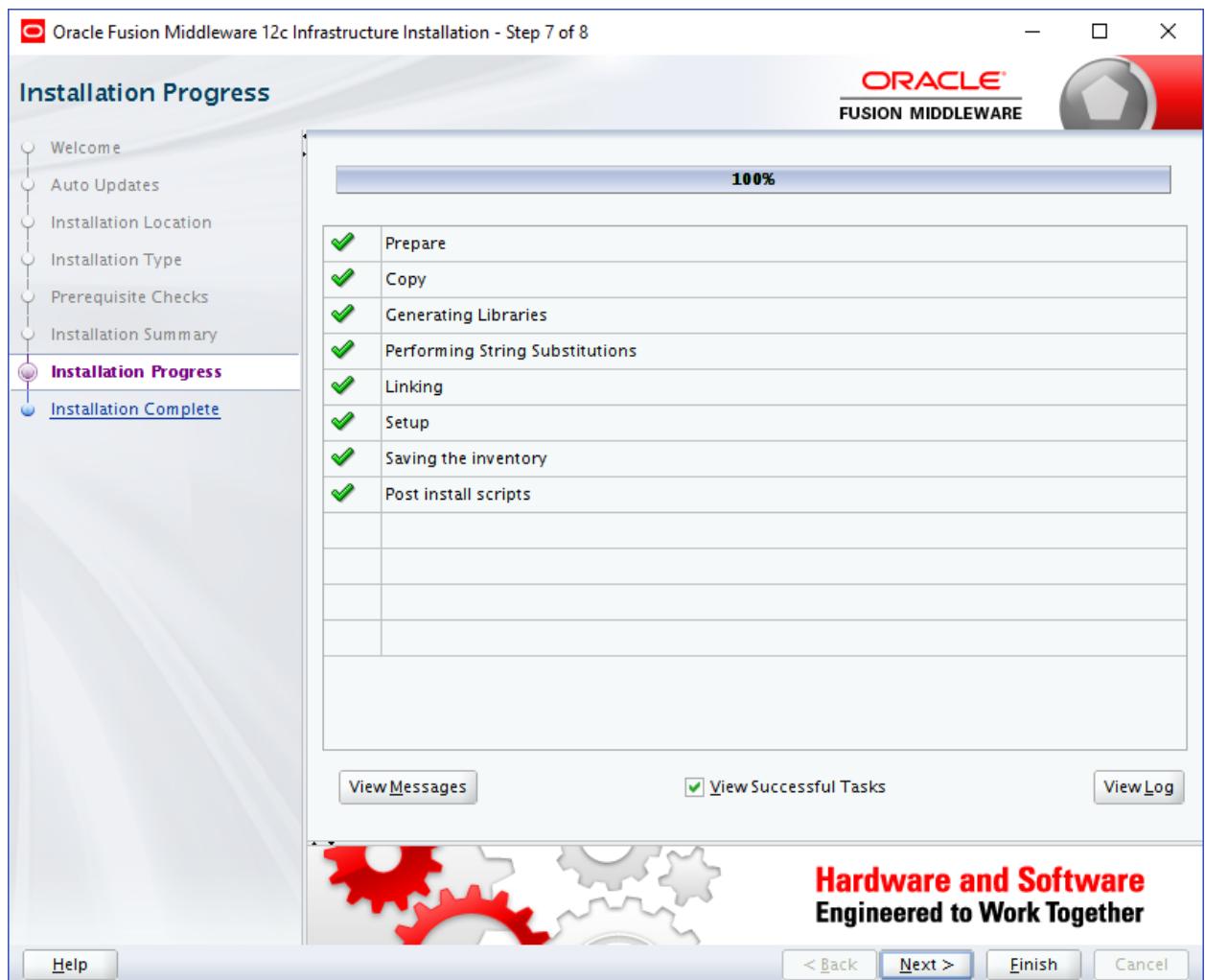
If you want to save this configuration to a text file (called a response file), click **Save**. You will be prompted for the location of name of the file you want to create (for example, `silent_install.rsp`). This file can be used later if you choose to perform the same installation from the command line.

Click **Install**.

Then screen shows the progress of the installation.

Installation Progress Screen

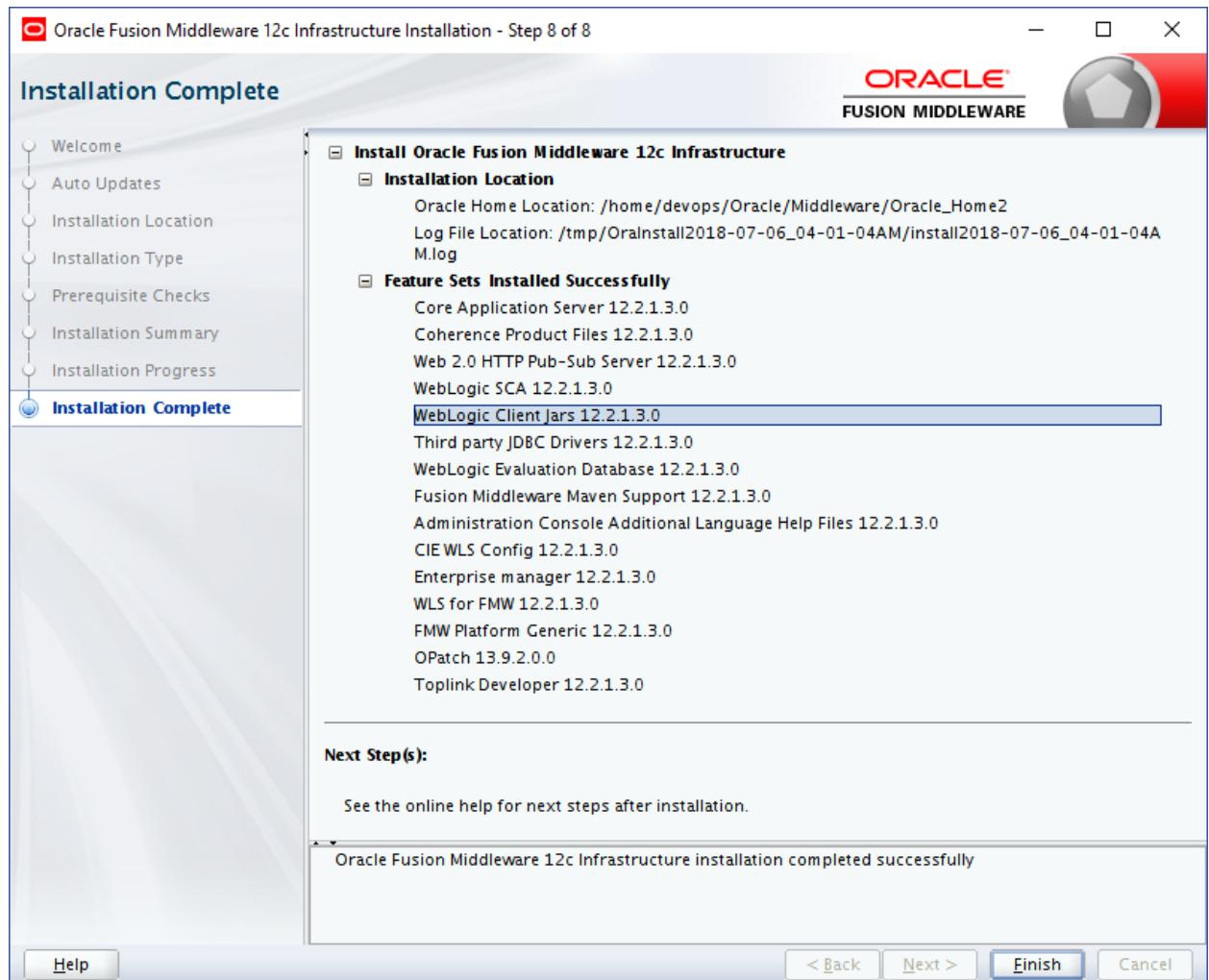




This screen shows the progress of the installation. Click Next.

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.

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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"

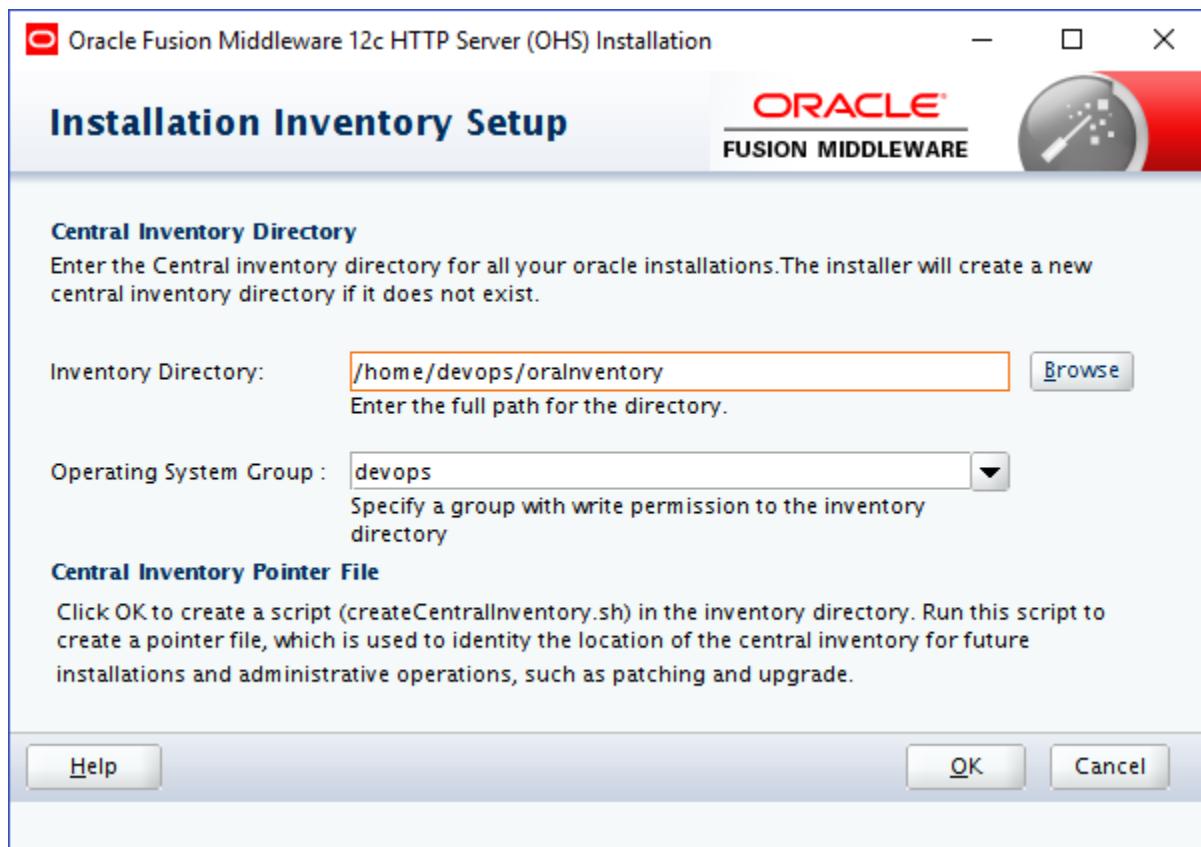
4.1 Installing and Configuring Oracle HTTP Server (OHS)

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.

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

`/fmw_12.2.1.3.0_ohs_linux64.bin` Now, follow the instructions as shown below to install Webtier,

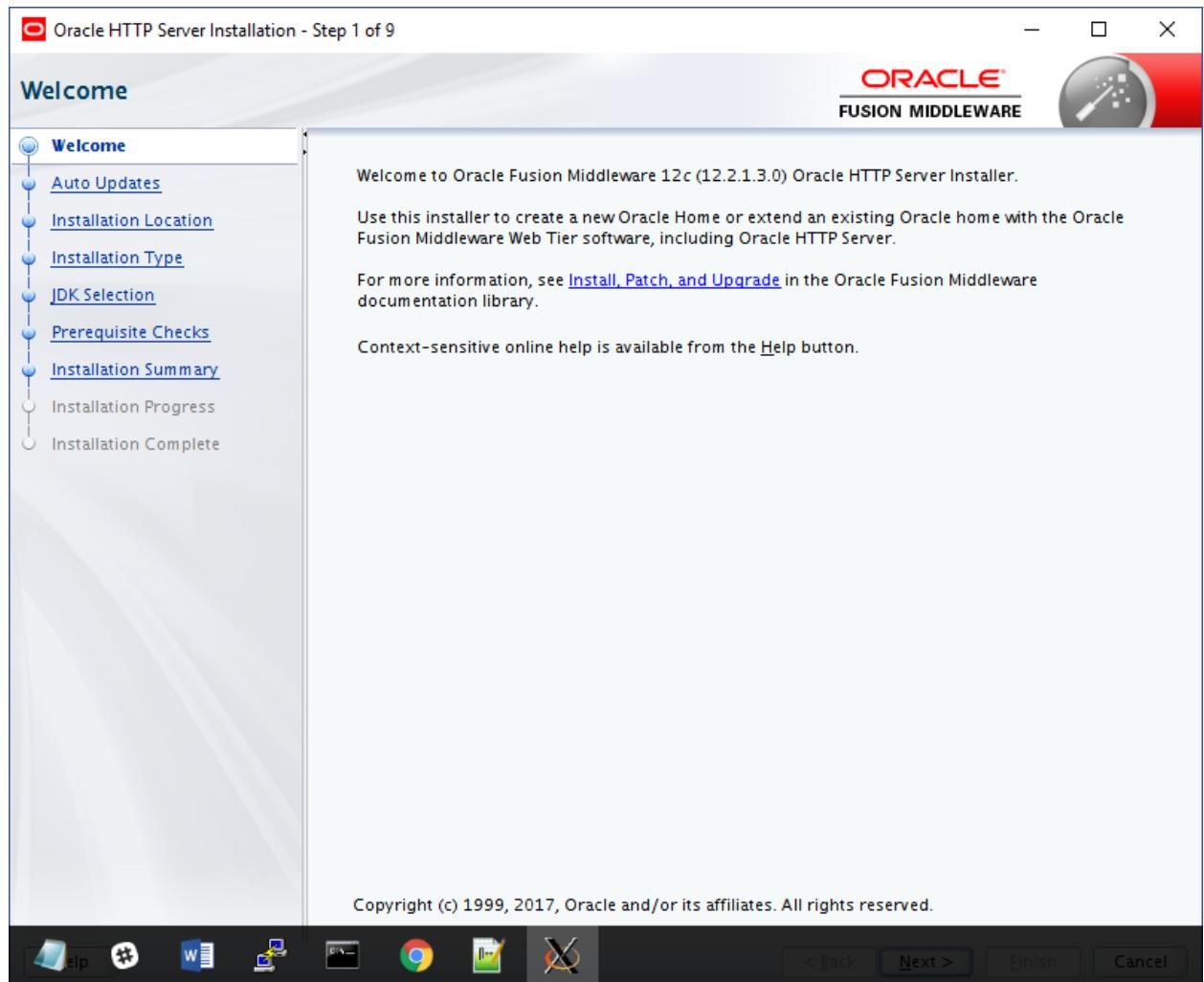
Specify Inventory Directory Screen



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/oralInventory`.

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.

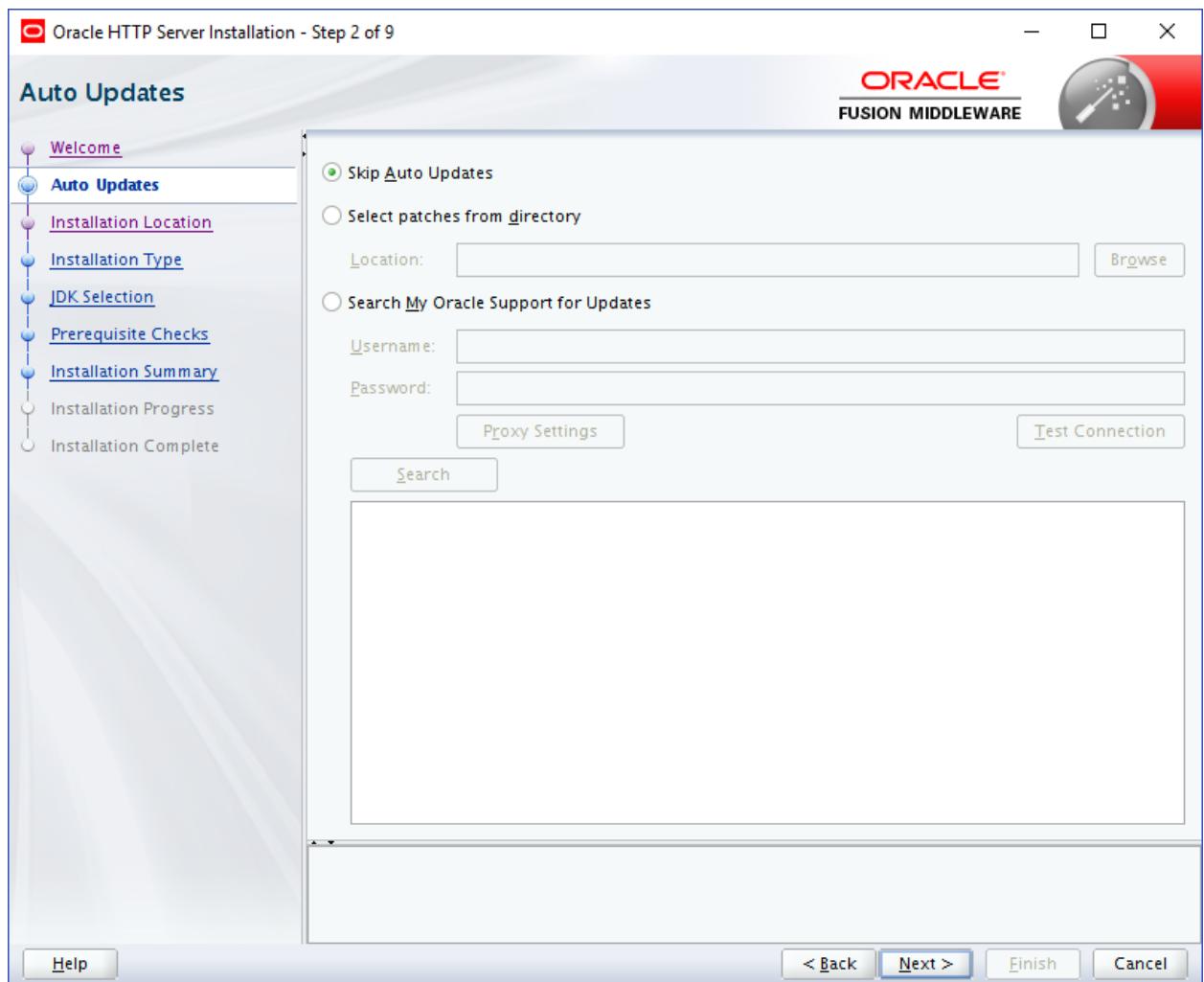
Welcome Screen



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

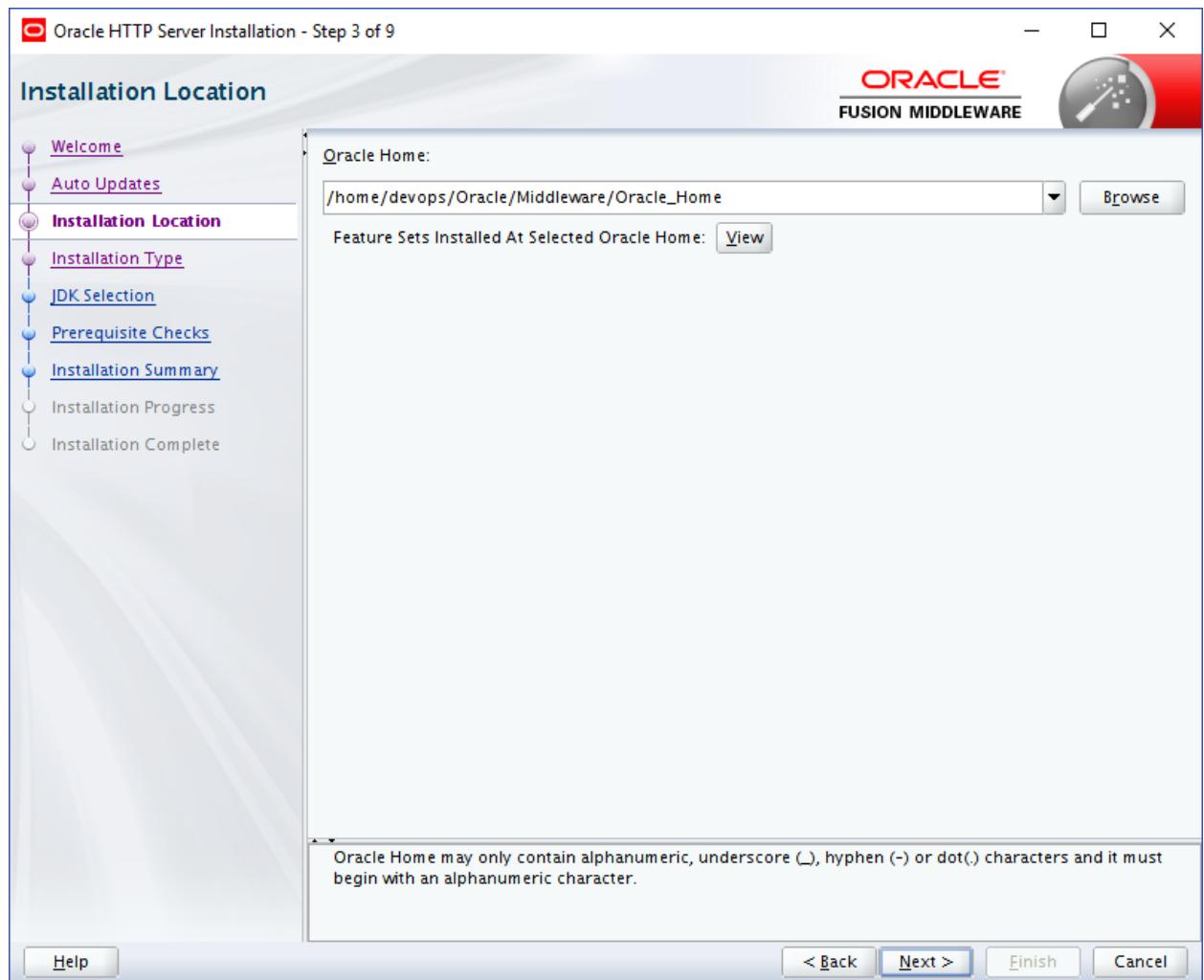
Click Next to continue.

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.)

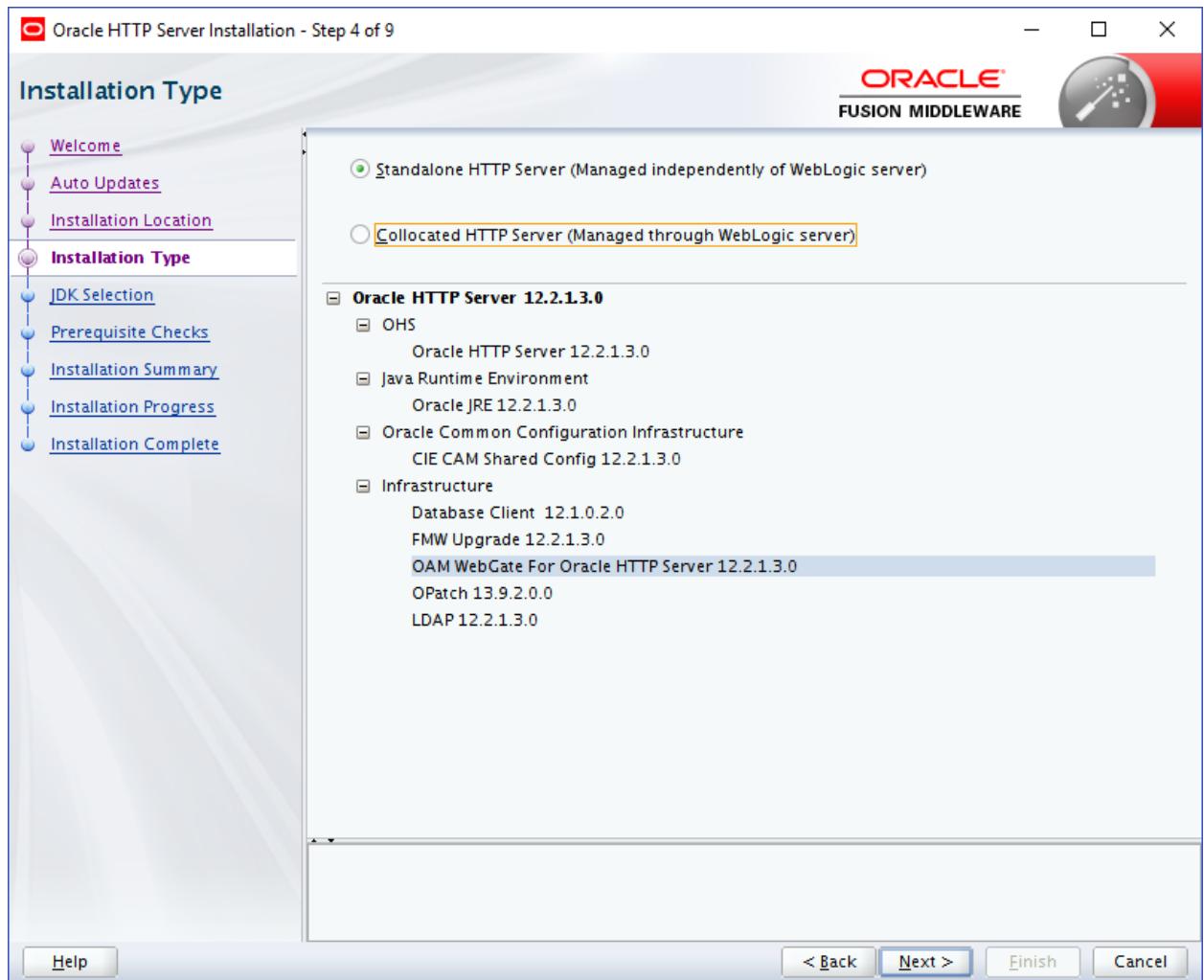
Select Installation Location



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

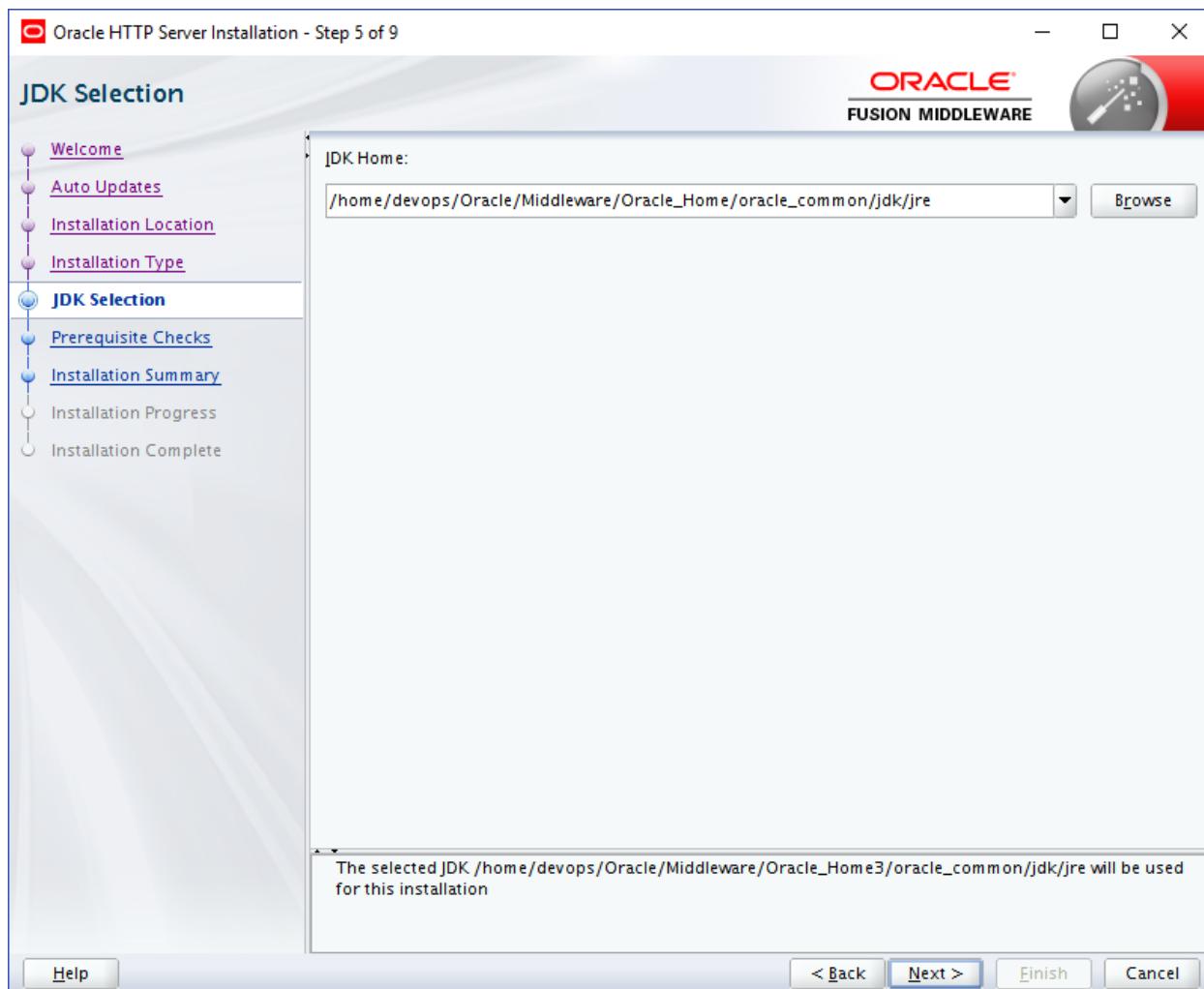


The following are the Installation Types available.

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

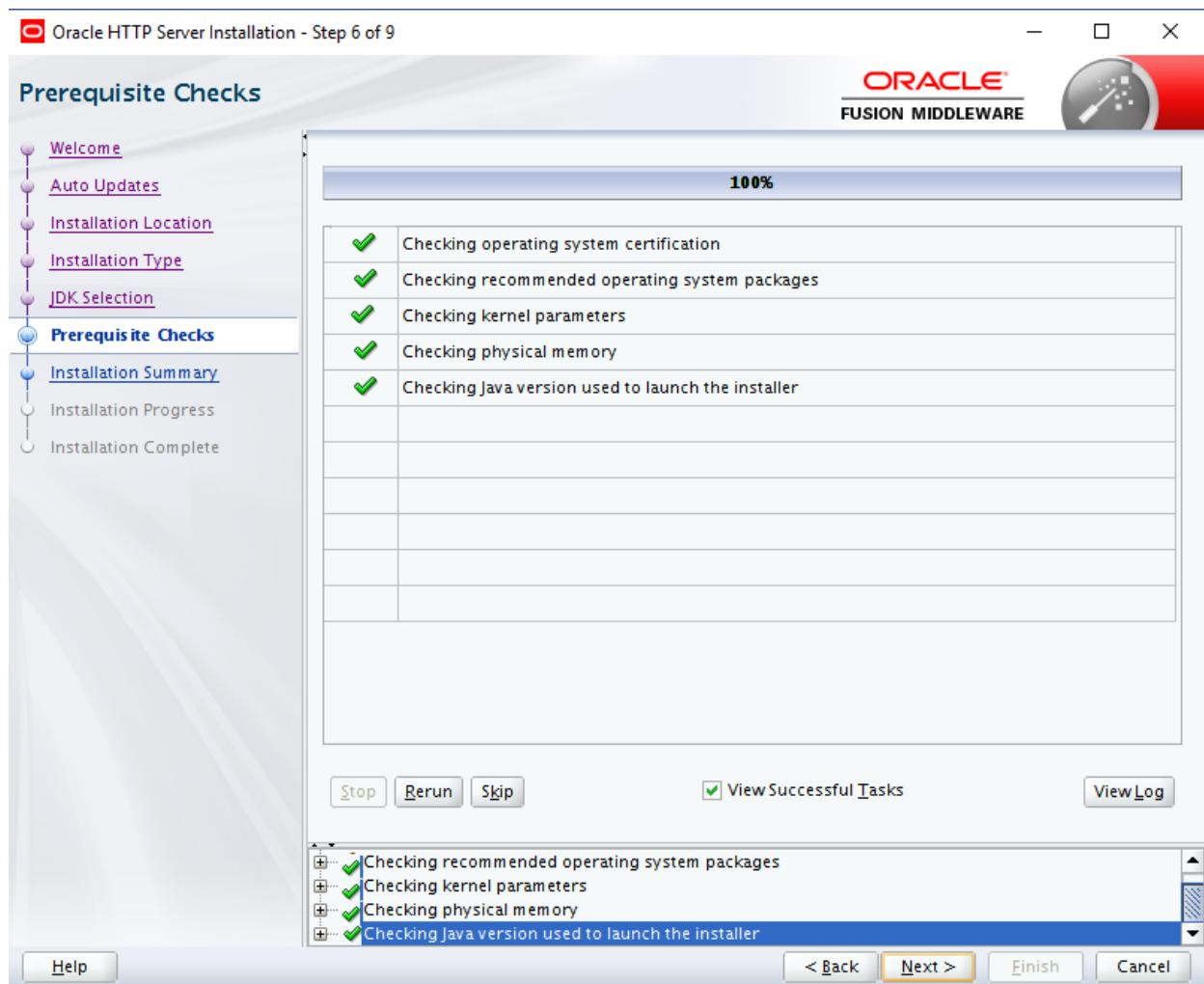
Choose installation type as per requirement. Select Standalone HTTP Server (Managed Independently of Weblogic Server). Click Next to continue.

Select JDK home



Click Next to continue

Prerequisite Checks Screen

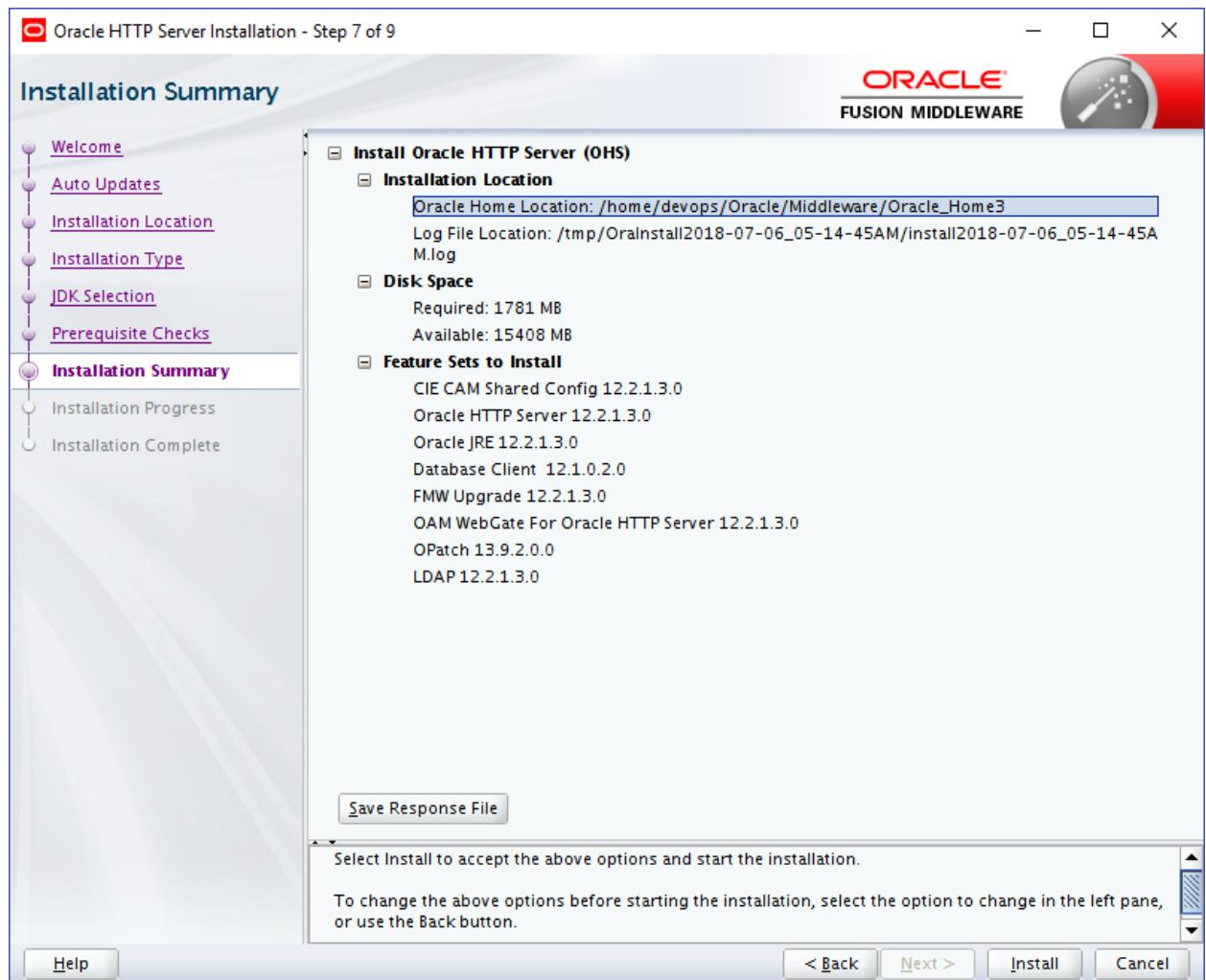


This screen shows whether the system requirements are met in order to install the software.

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



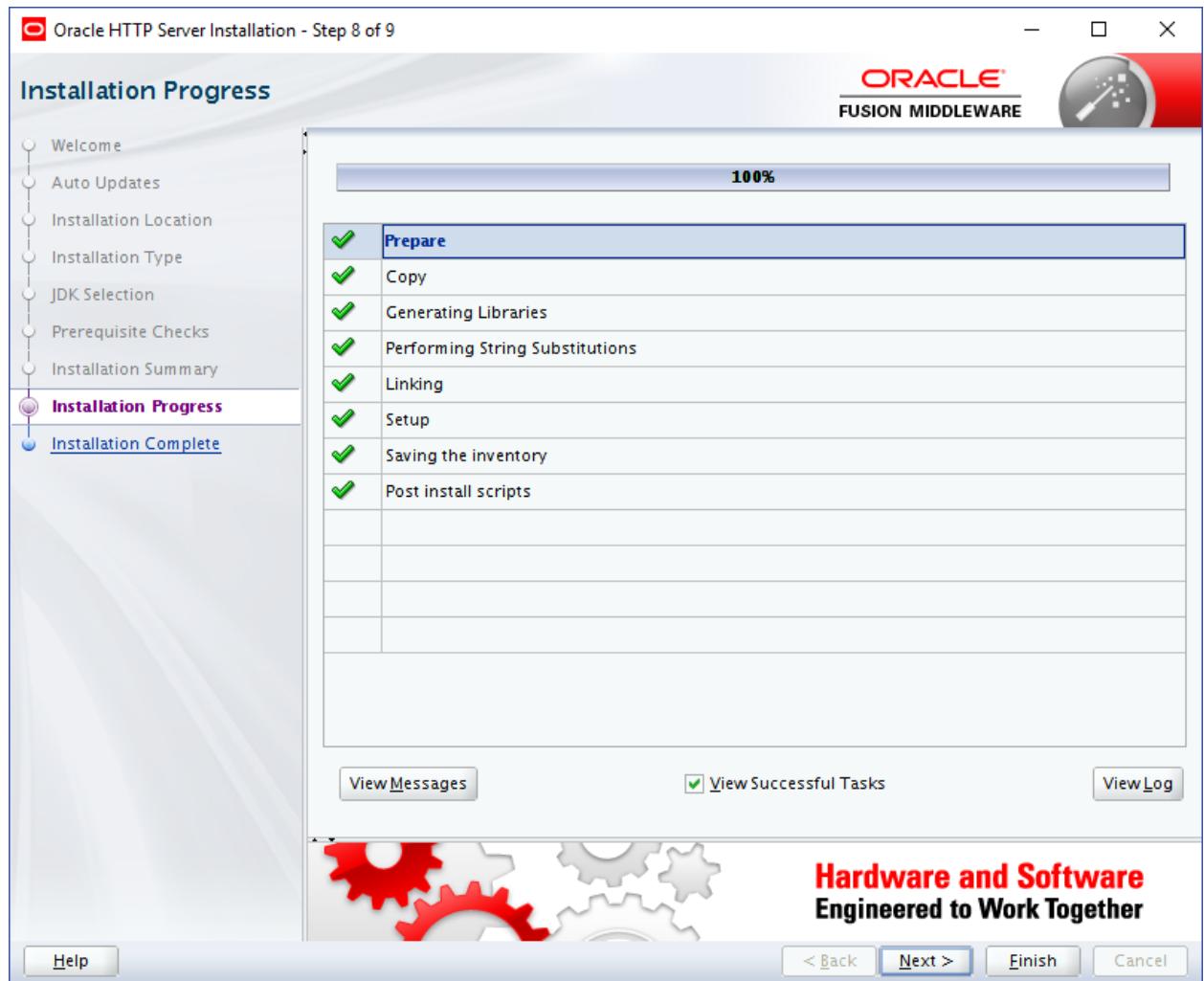
Review the information on this screen. The operations summarized on this page will be performed when you click **Install**.

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

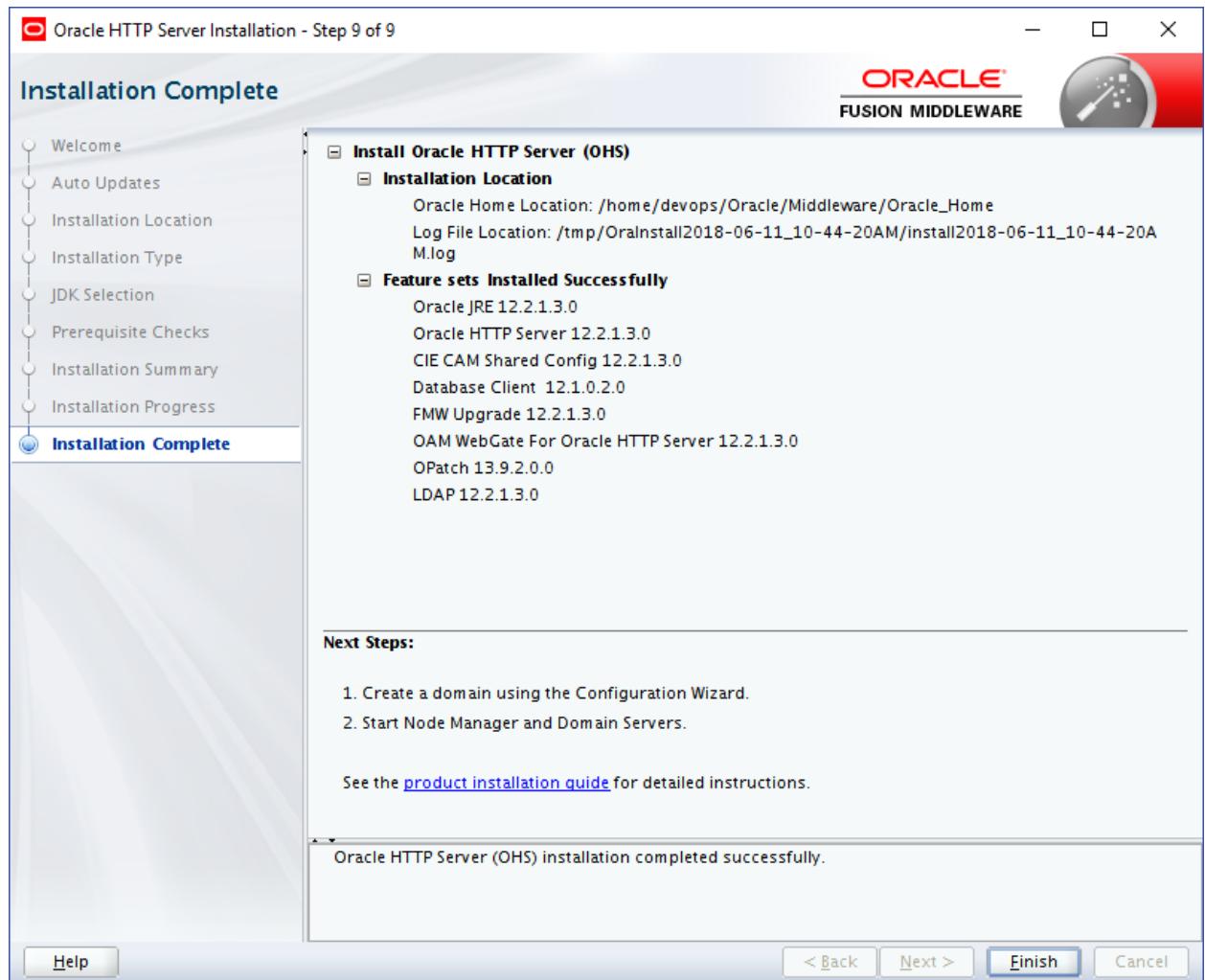


This screen shows the progress of the installation.

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.

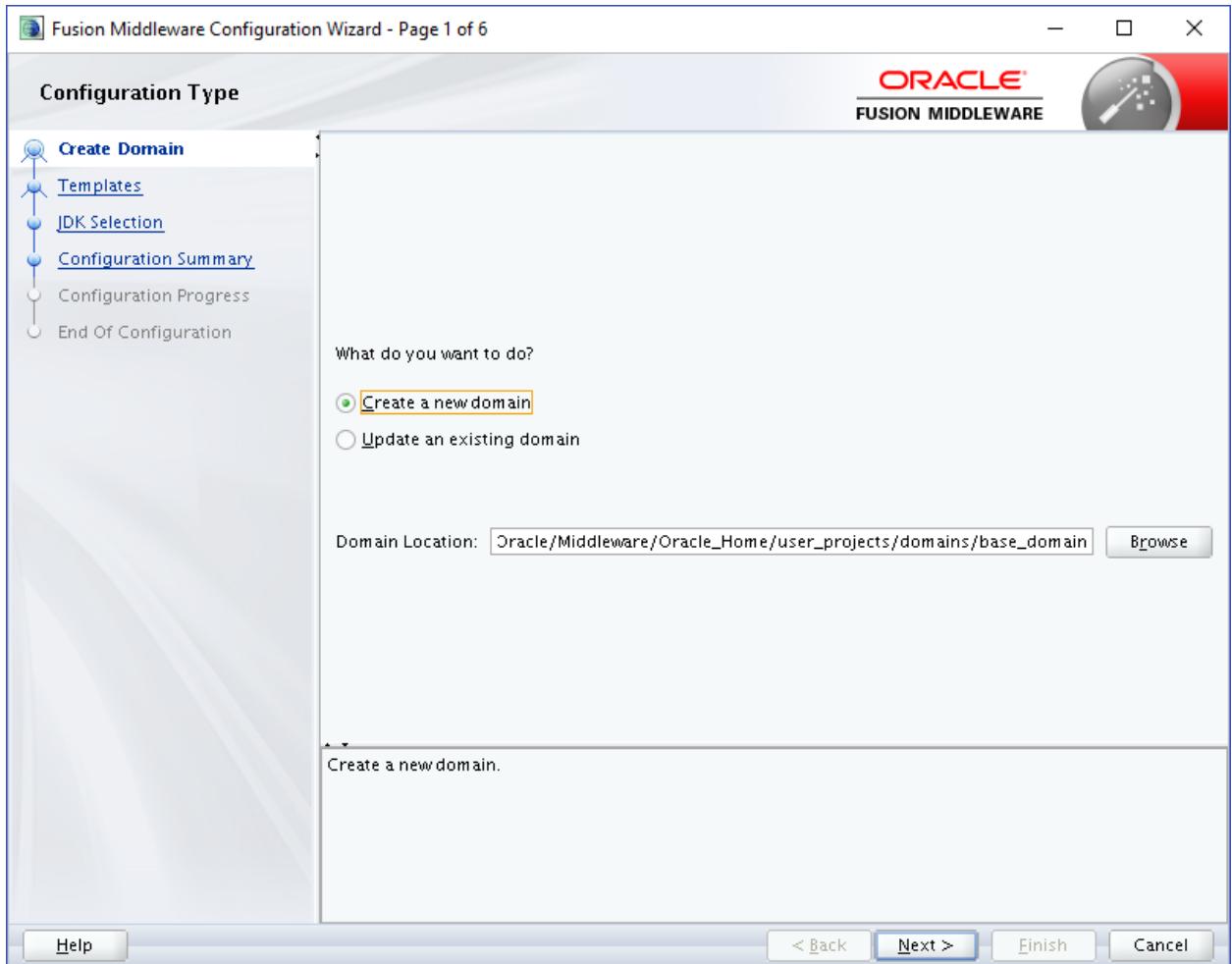
Configure the HTTP server

Follow below steps to configure domain for HTTP server

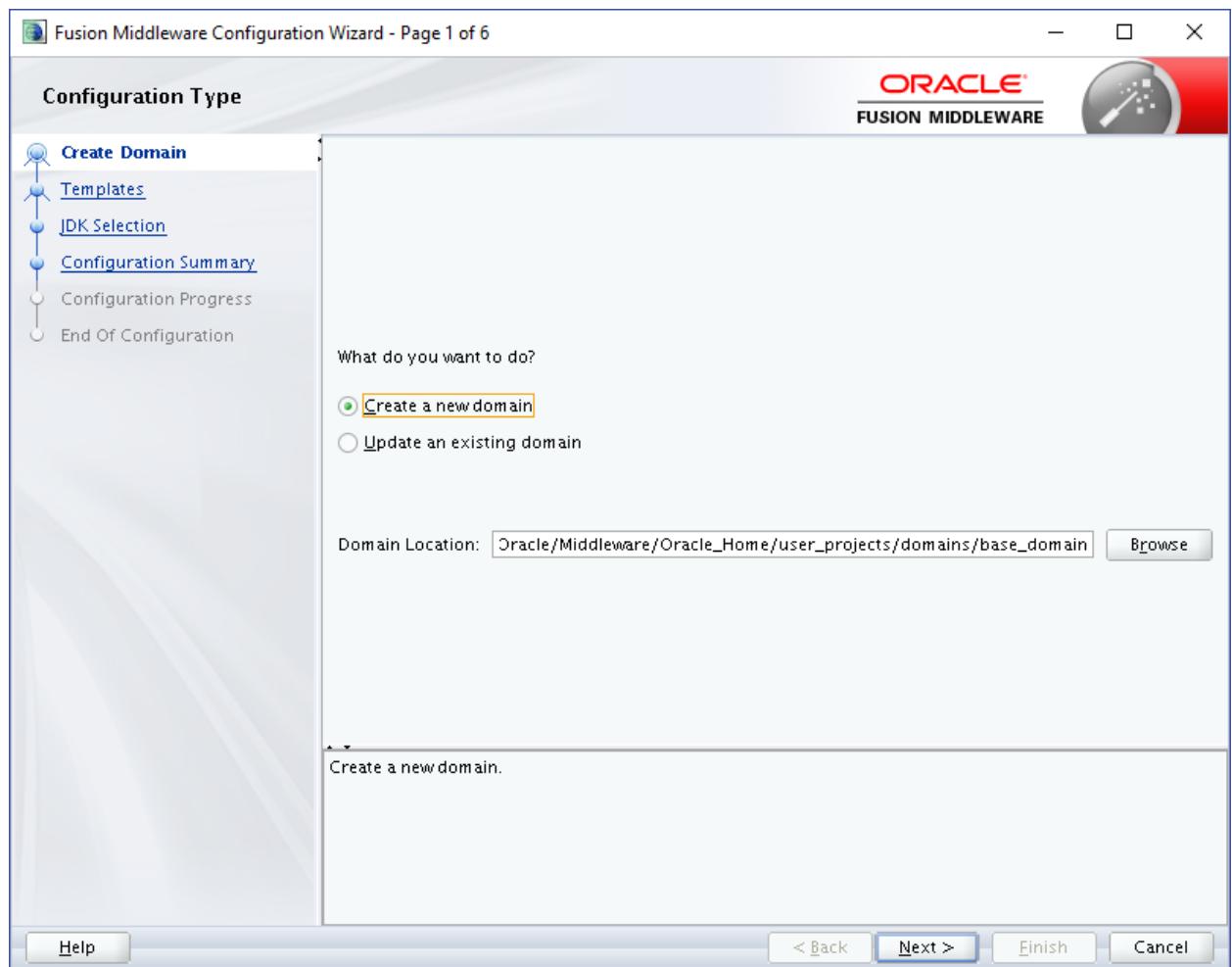
- Browse <Middleware_Home>/oracle_common/common/bin directory
- Execute below command

`./config.sh`

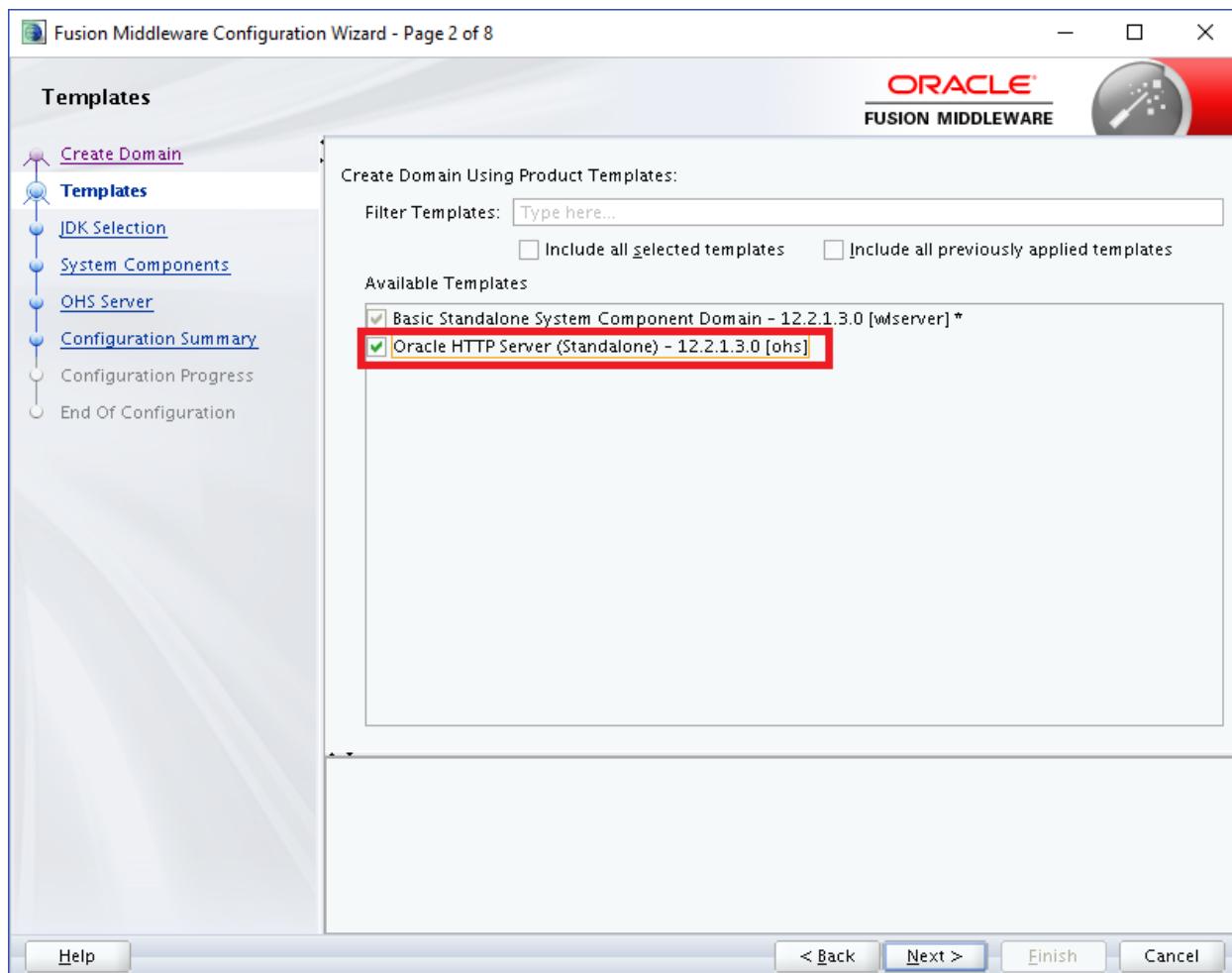
Below screen will be displayed



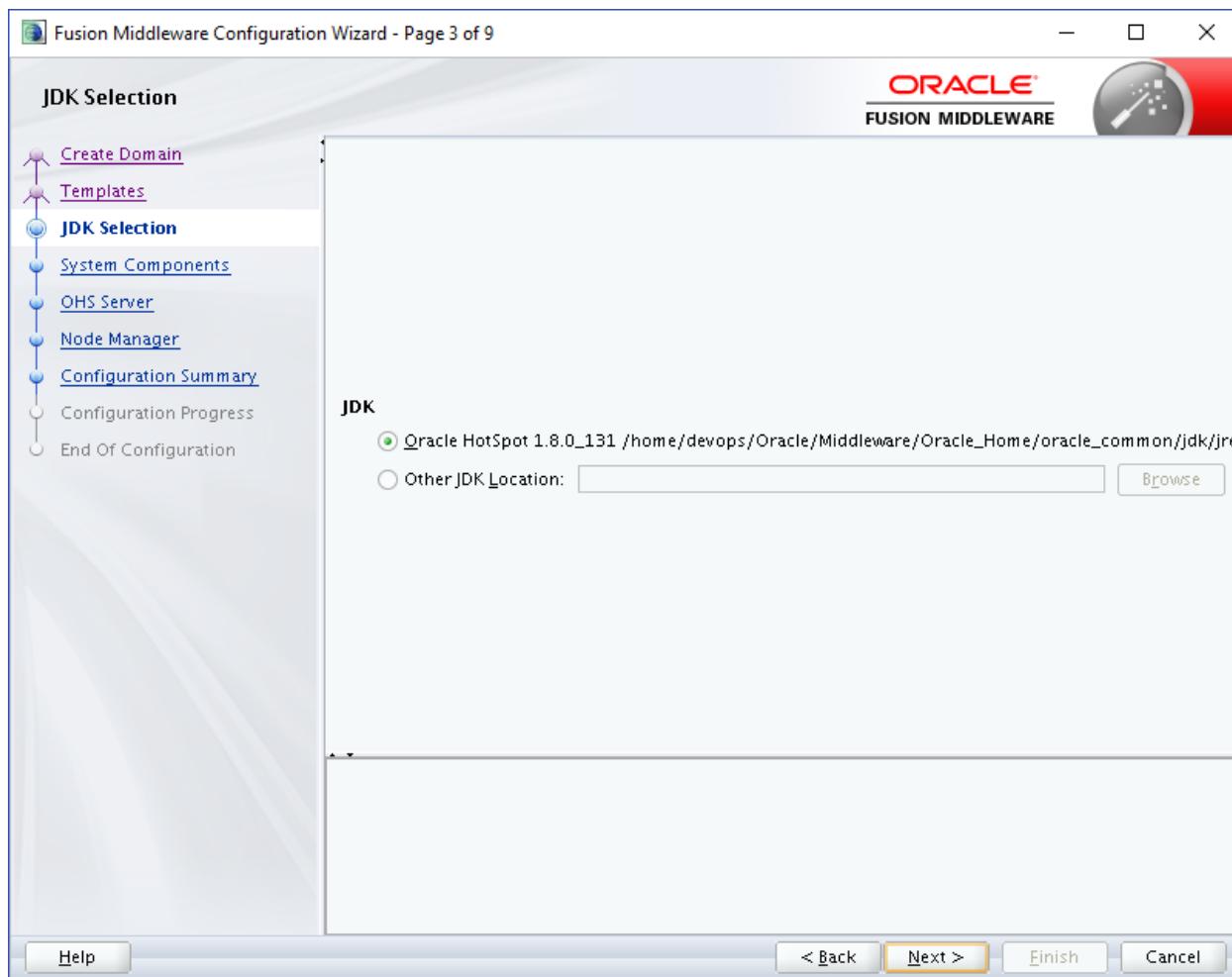
- Select “Create a new domain” option and select Domain location. Click Next



➤ Select Oracle HTTP Server option and click Next



➤ Click Next



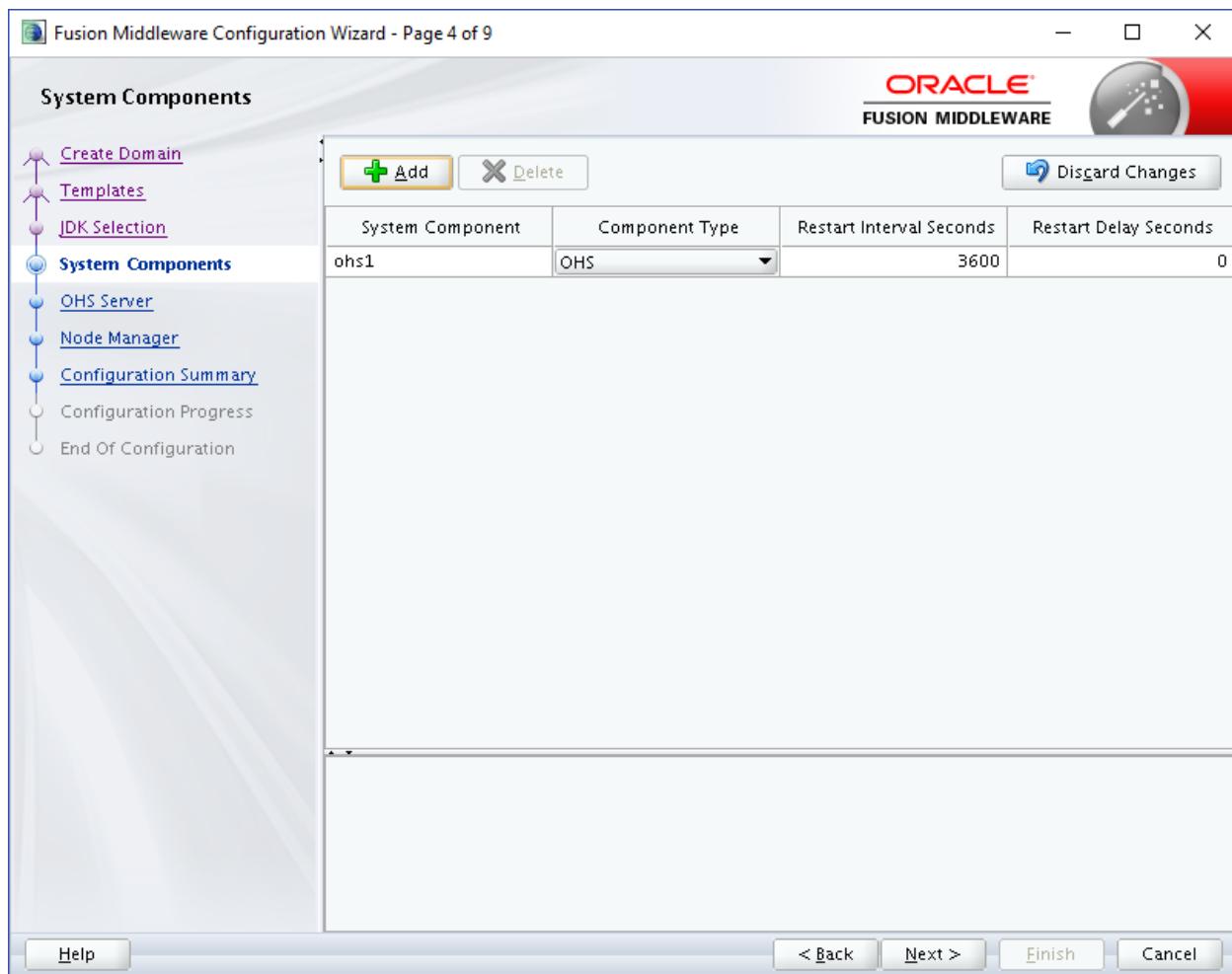
➤ Enter below details and click Next

System Component: Set the Instance name

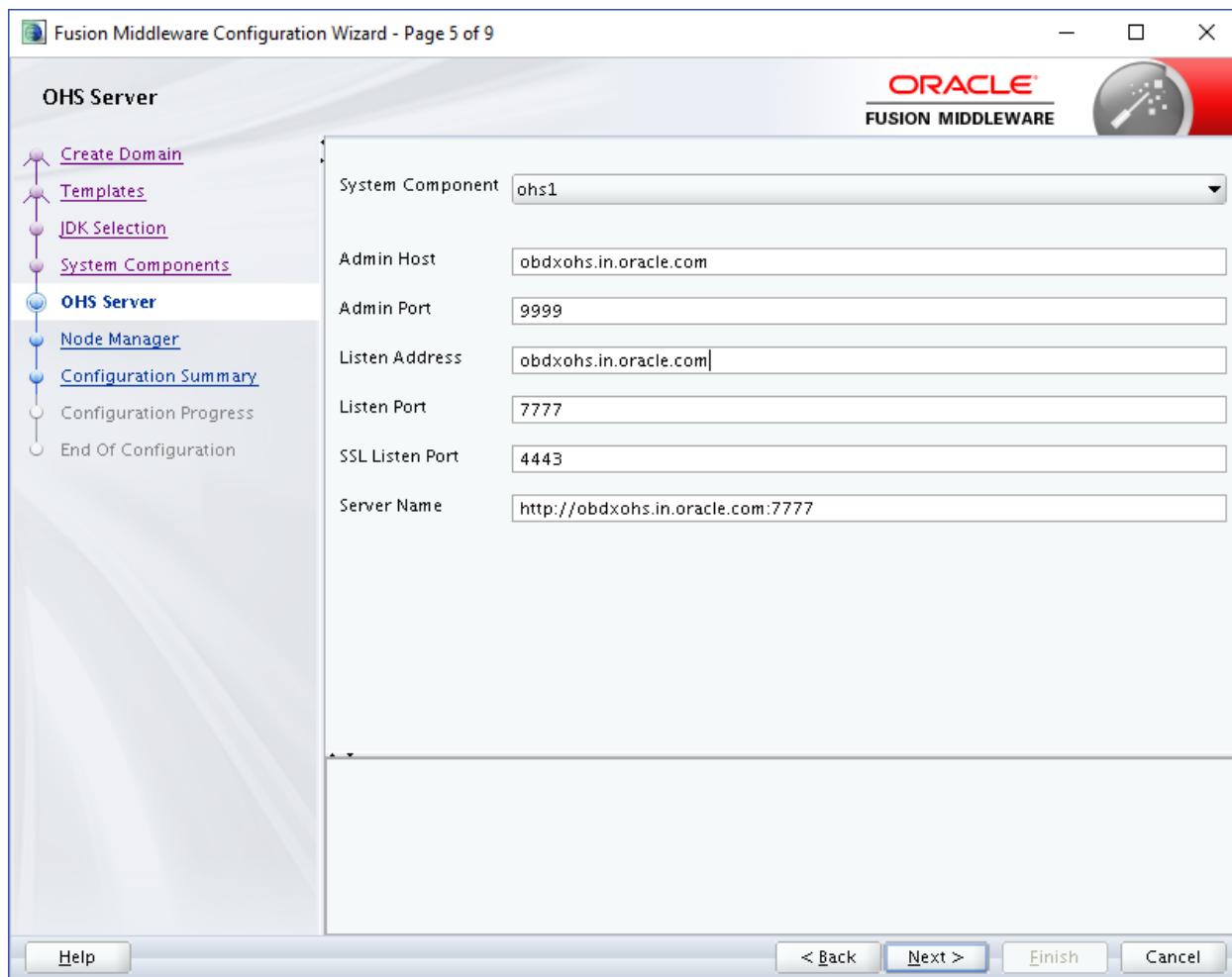
Component Type: Should be OHS

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

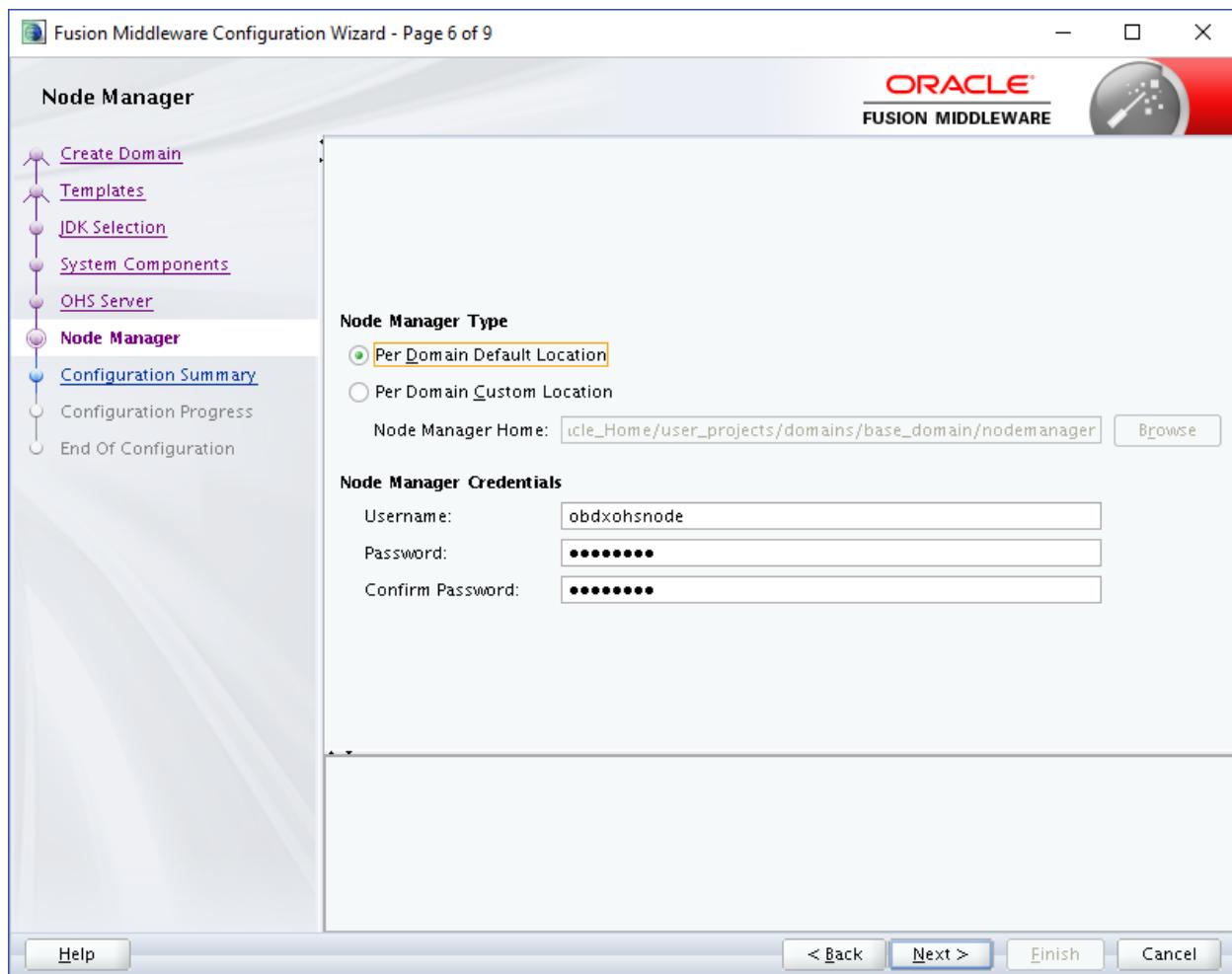
Restart Delay Seconds: Set as per requirement. Defaults to 0



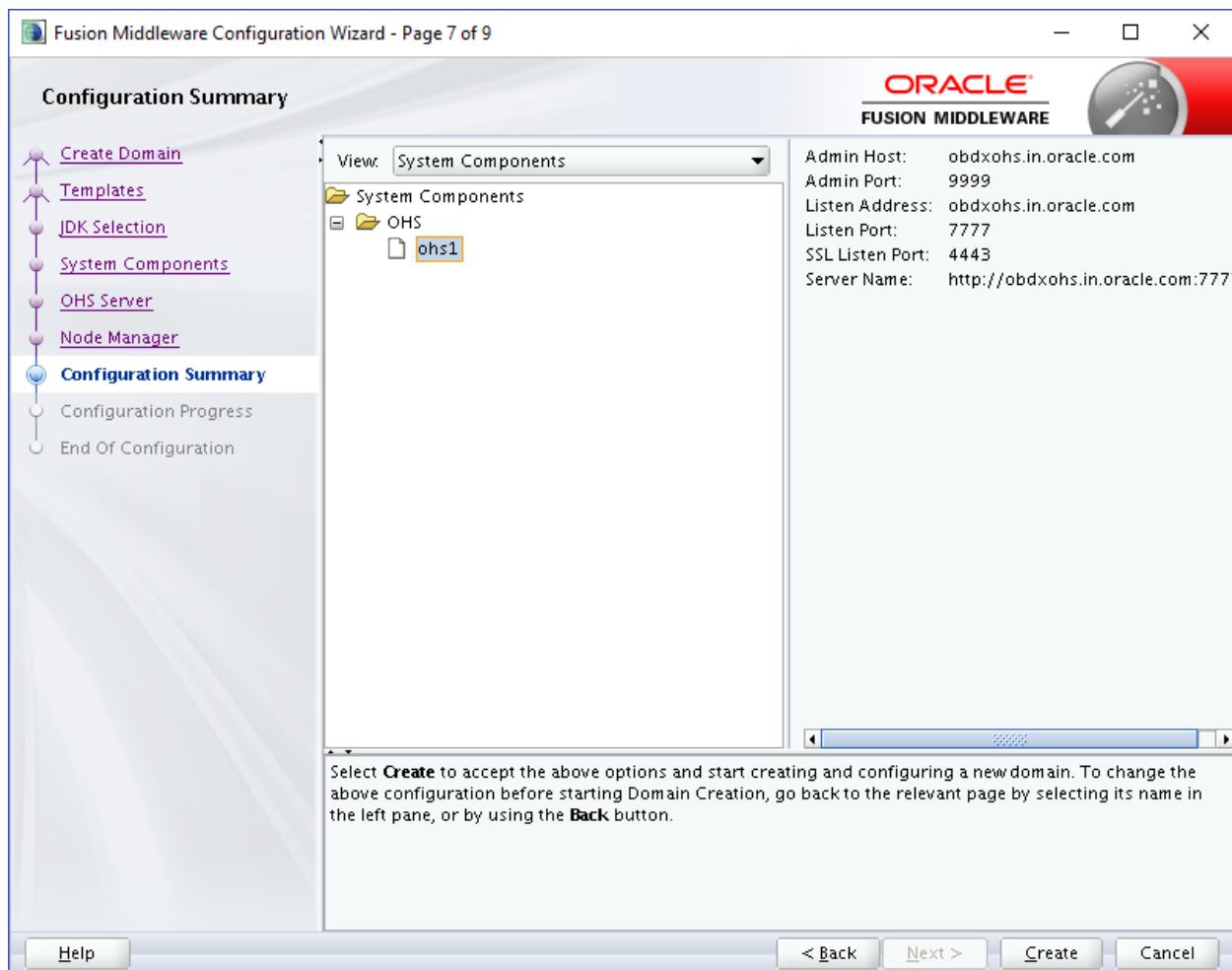
- Configure Admin Host; Port; Listen Address and click Next



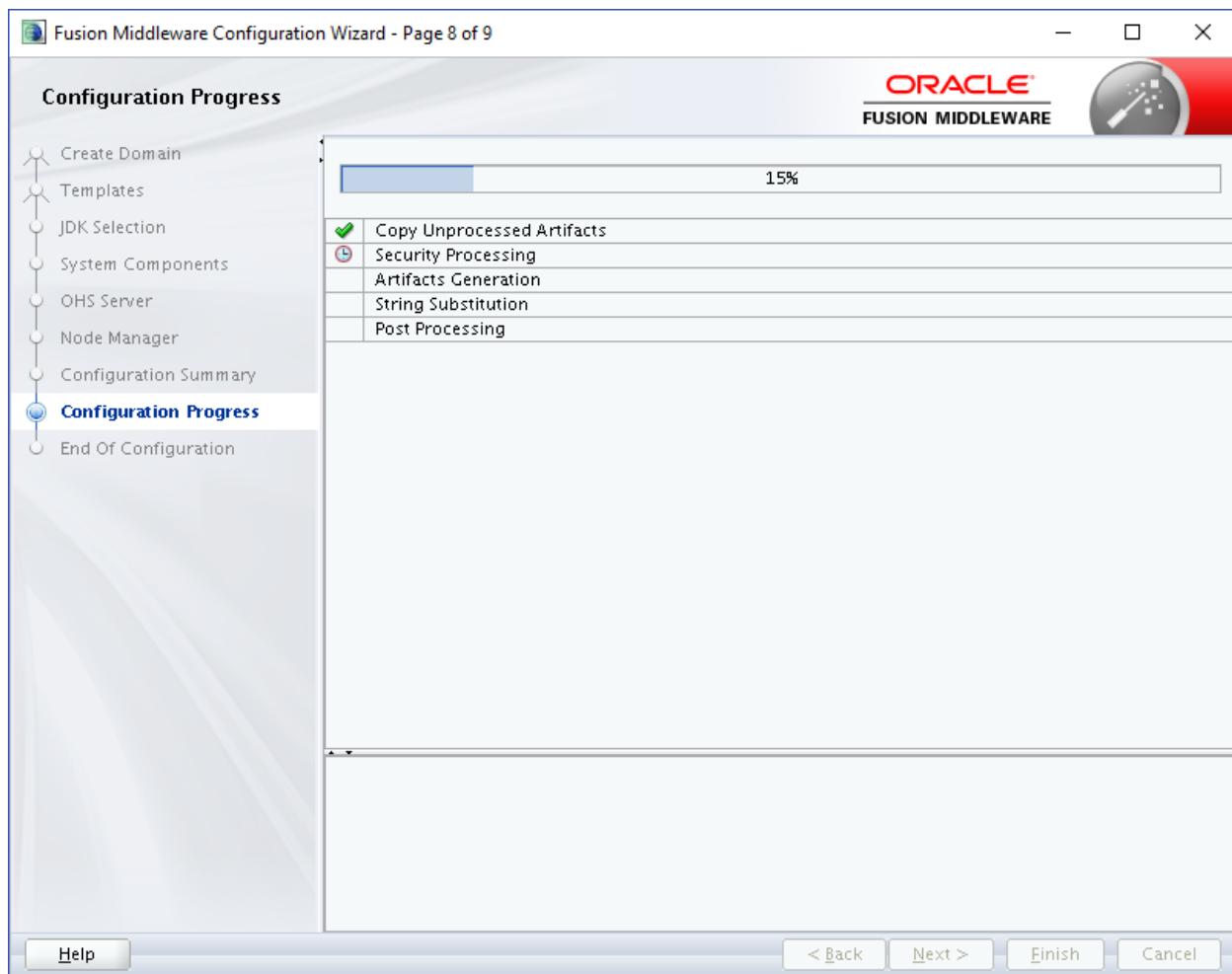
➤ Select appropriate Node Manager Type; and enter Node Manager Credentials. Click Next.

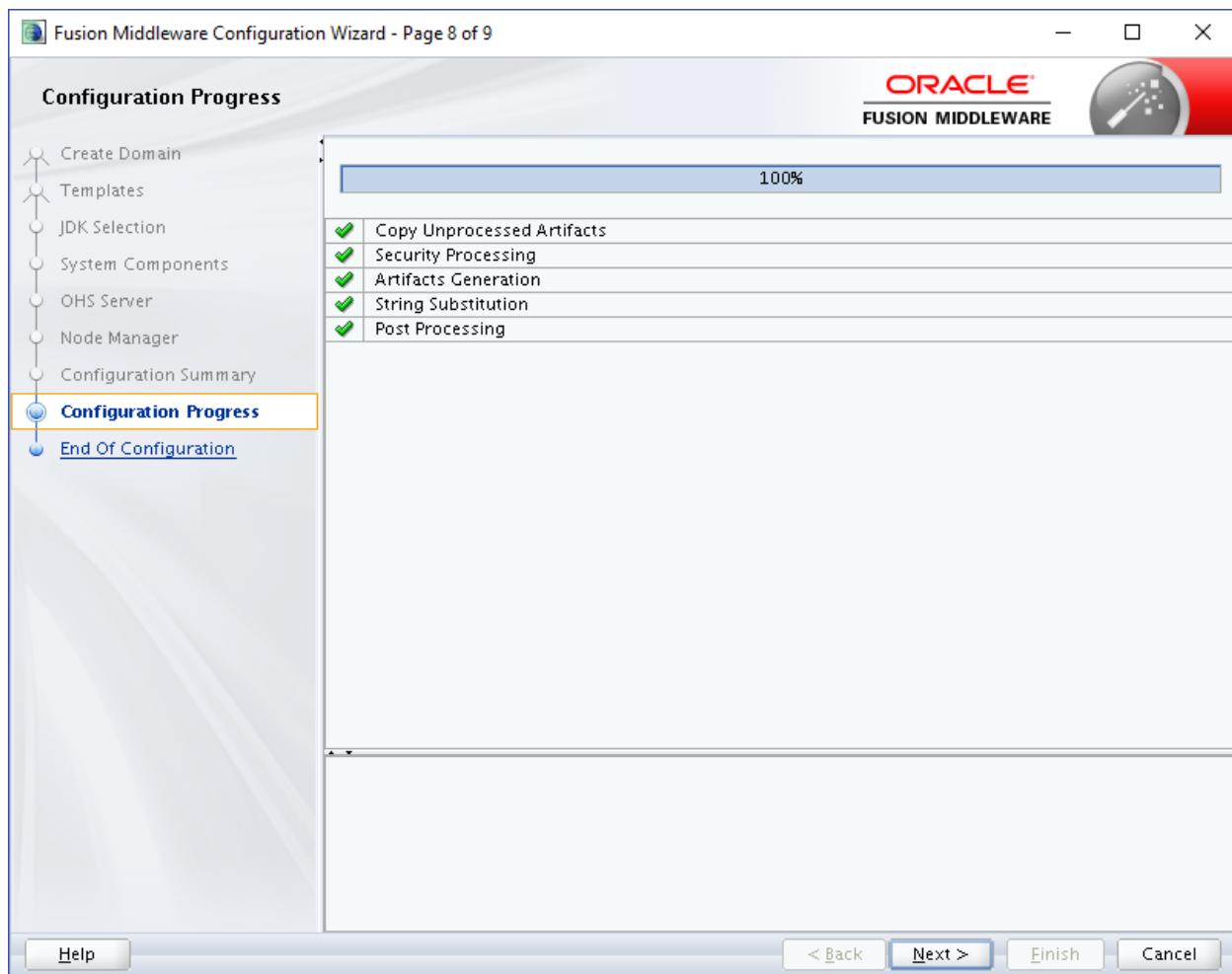


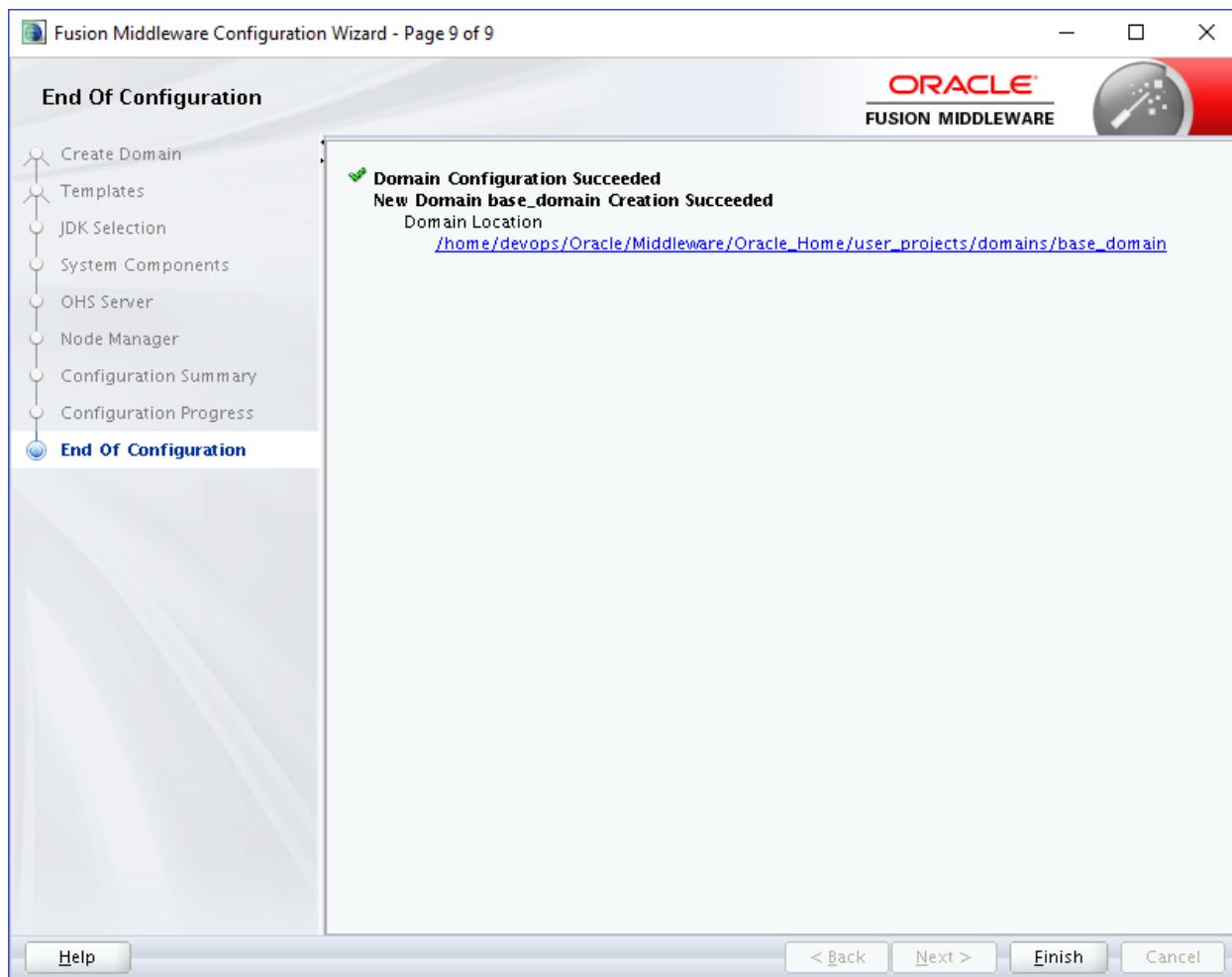
➤ Review summary and click Create



➤ Below installation progress can be seen







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>/oralInventory/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

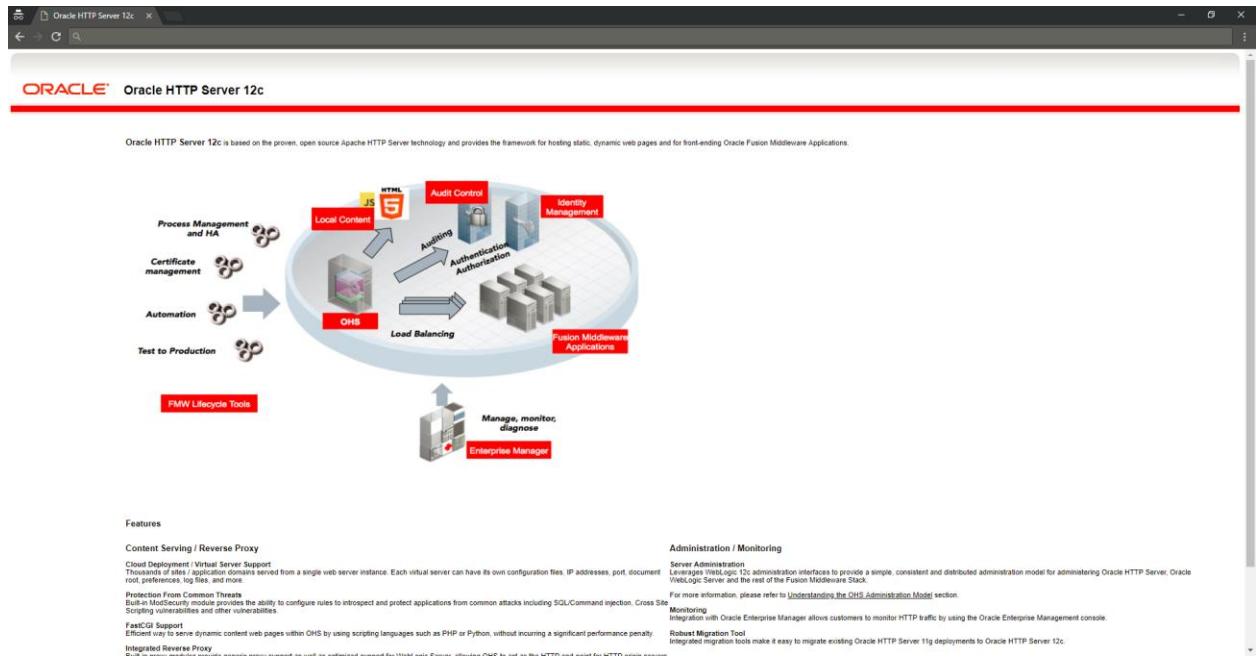
```
cd
/home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/bin
./startNodeManager.sh
```

- 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>



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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 Configuring Oracle Webgate

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
/home/devops/Oracle/Middleware/Oracle_Home/webgate/ohs/tools/deployWebGate
```

- 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
/home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/ohs1 -oh
/home/devops/Oracle/Middleware/Oracle_Home
```

```
[devops@      deployWebGate]$ ./deployWebGateInstance.sh -w /home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/ohs1 -oh /home/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: `/home/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:

`/home/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
/home/devops/Oracle/Middleware/Oracle_Home/webgate/ohs/tools/setup/InstallTools/ 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
/home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/ohs1 -oh
/home/devops/Oracle/Middleware/Oracle_Home
```

```
[devops@InstallTools]$ ./EditHttpConf -w /home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/ohs1 -oh /home/devops/Oracle/Middleware/Oracle_Home
The web server configuration file was successfully updated
/home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/ohs1/httpd.conf has been backed up as
/home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/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: **/home/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: **/home/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.

5.2 Verifying the configuration of Oracle HTTP Server 12c WebGate

After installing Oracle HTTP Server 12c 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 Business Intelligence Publisher Installation

To install Oracle Business Intelligence Installation refer
<https://docs.oracle.com/middleware/bi12214/lcm/BIEIG/toc.htm> .

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