Oracle Banking Digital Experience

Installer Pre-Requisite Setup Guide
Release 18.2.0.0.0

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ORACLE

Installer Pre-Requisite Setup Guide

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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 18.2.0.0.0, 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 18.2.0.0.0 Installer.

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

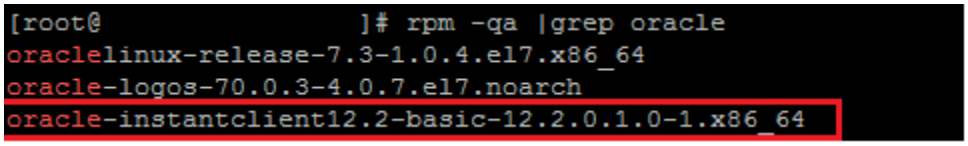
2.1 Software List

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_172	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	12.2.1.3.0	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

Software Name	Version	Mandatory Software
Oracle Client	12.2.0.1	Y
* 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:



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.

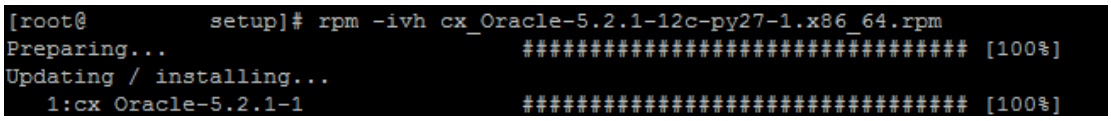
Note: Kindly ensure correct rpm package is downloaded as per Python (2.7.5) and Oracle database (12c) version.

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



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.

Home

3. Installing and Configuring Weblogic Infrastructure 12c

This chapter describes the steps for installing the Weblogic Infrastructureversion 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-8u172-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-8u172-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_172

  export PATH=$JAVA_HOME/bin:$PATH

3.1.2 Installing Weblogic

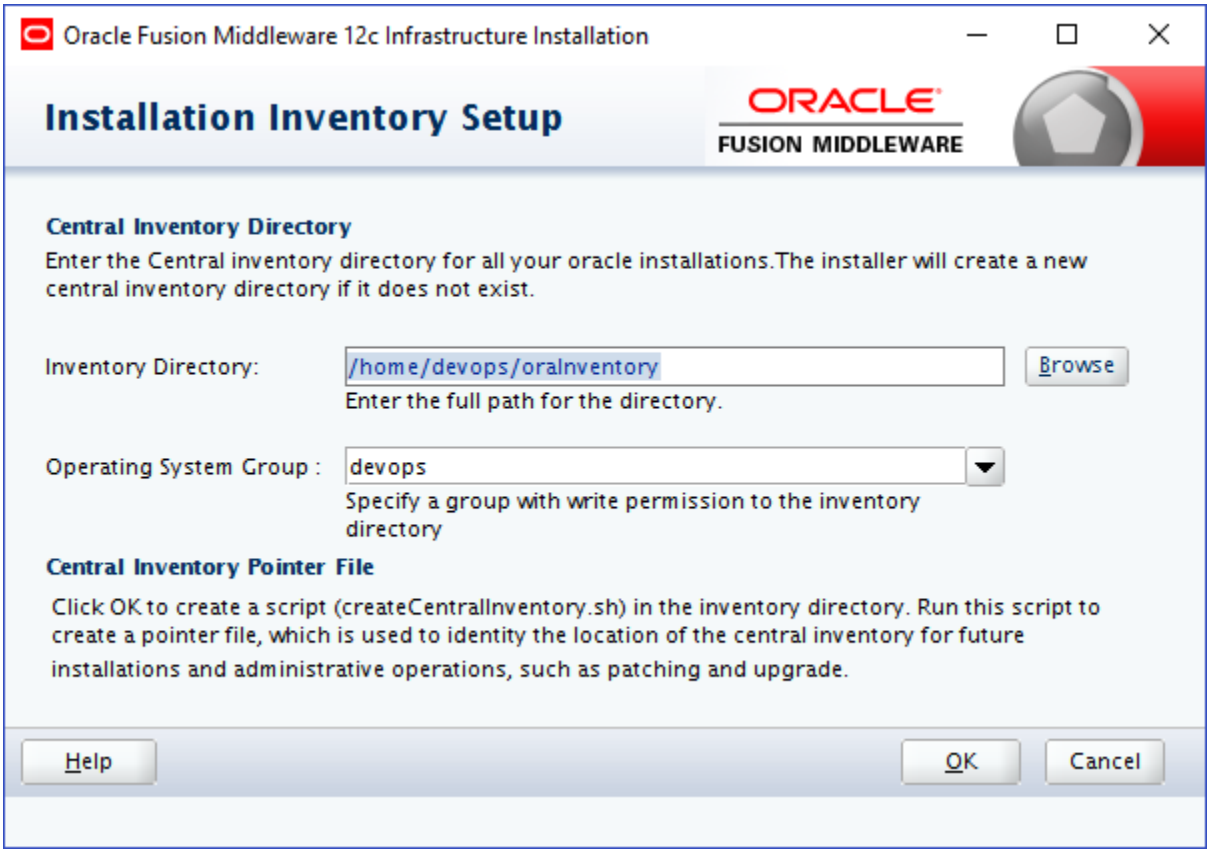
- Obtain Weblogic Infrastructure 12.2.1.3.0 zip from the Oracle Fusion Middleware Downloads. Extract the downloaded zip to get ***fmw_12.2.1.3.0_infrastructure.jar*** file to a directory.
- Now to start the installer, go to the directory where you have extracted the jar file.
- Start the installer from 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 will 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.

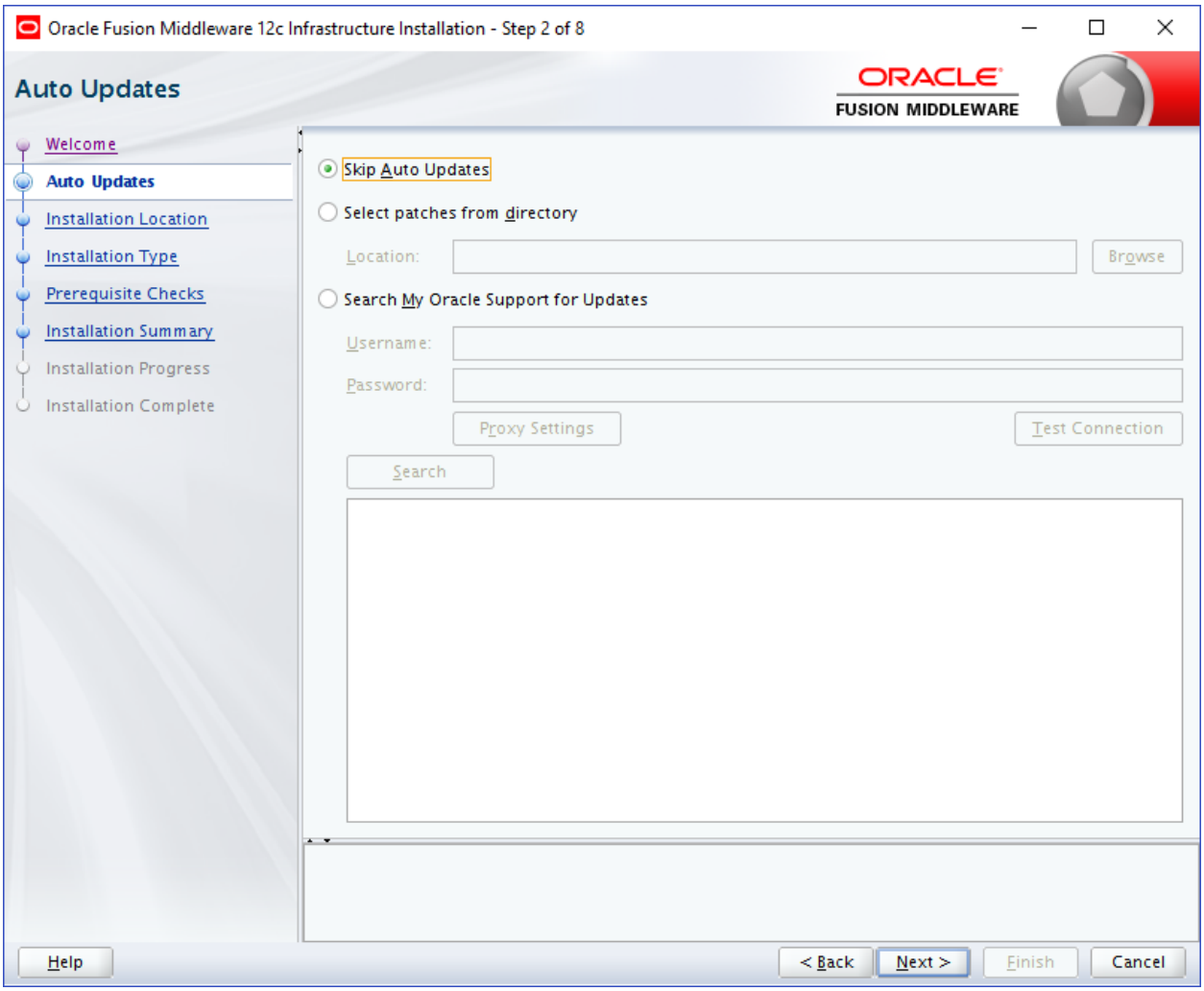
Click OK to continue.

Welcome Screen

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

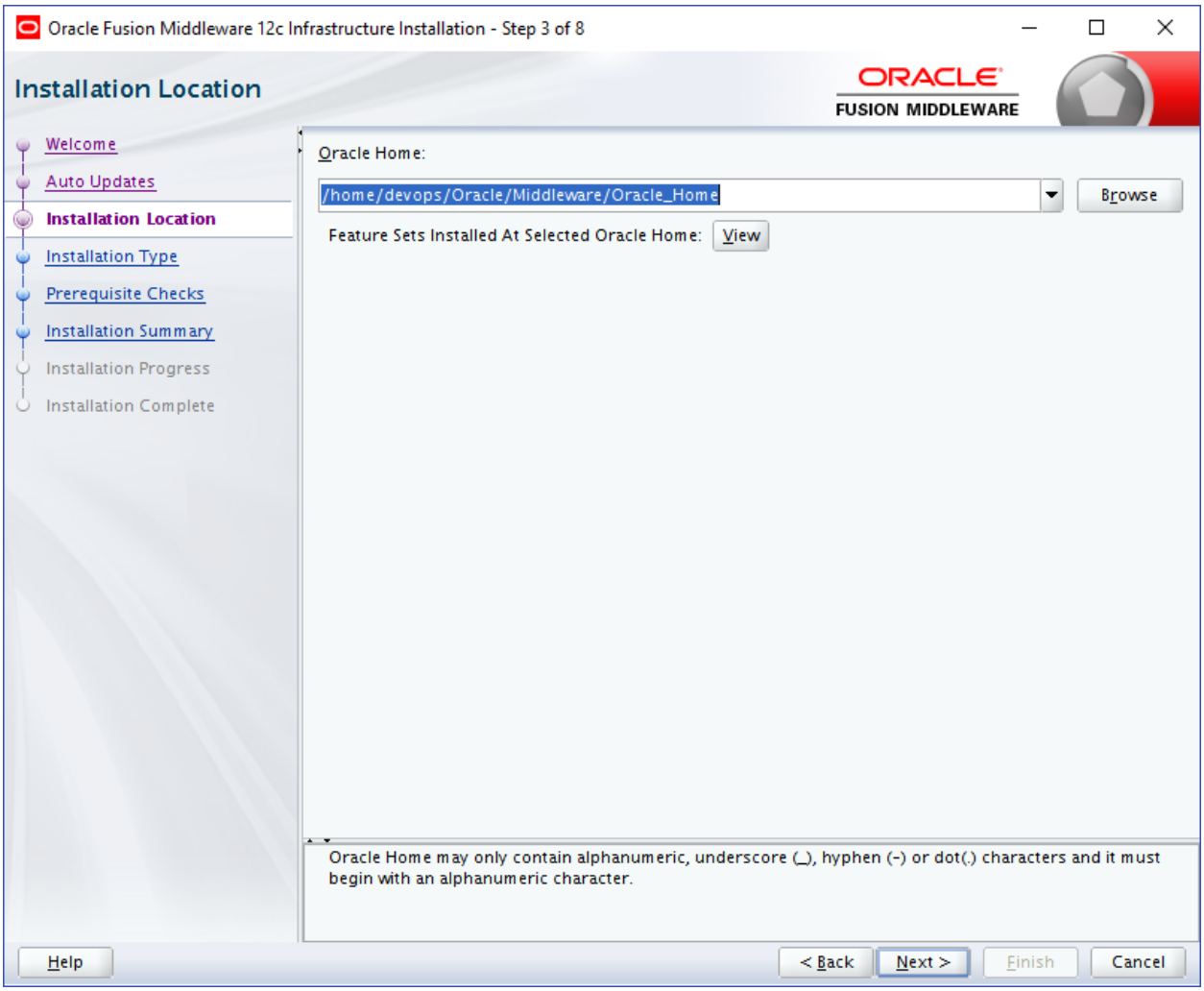
Click Next to continue.

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



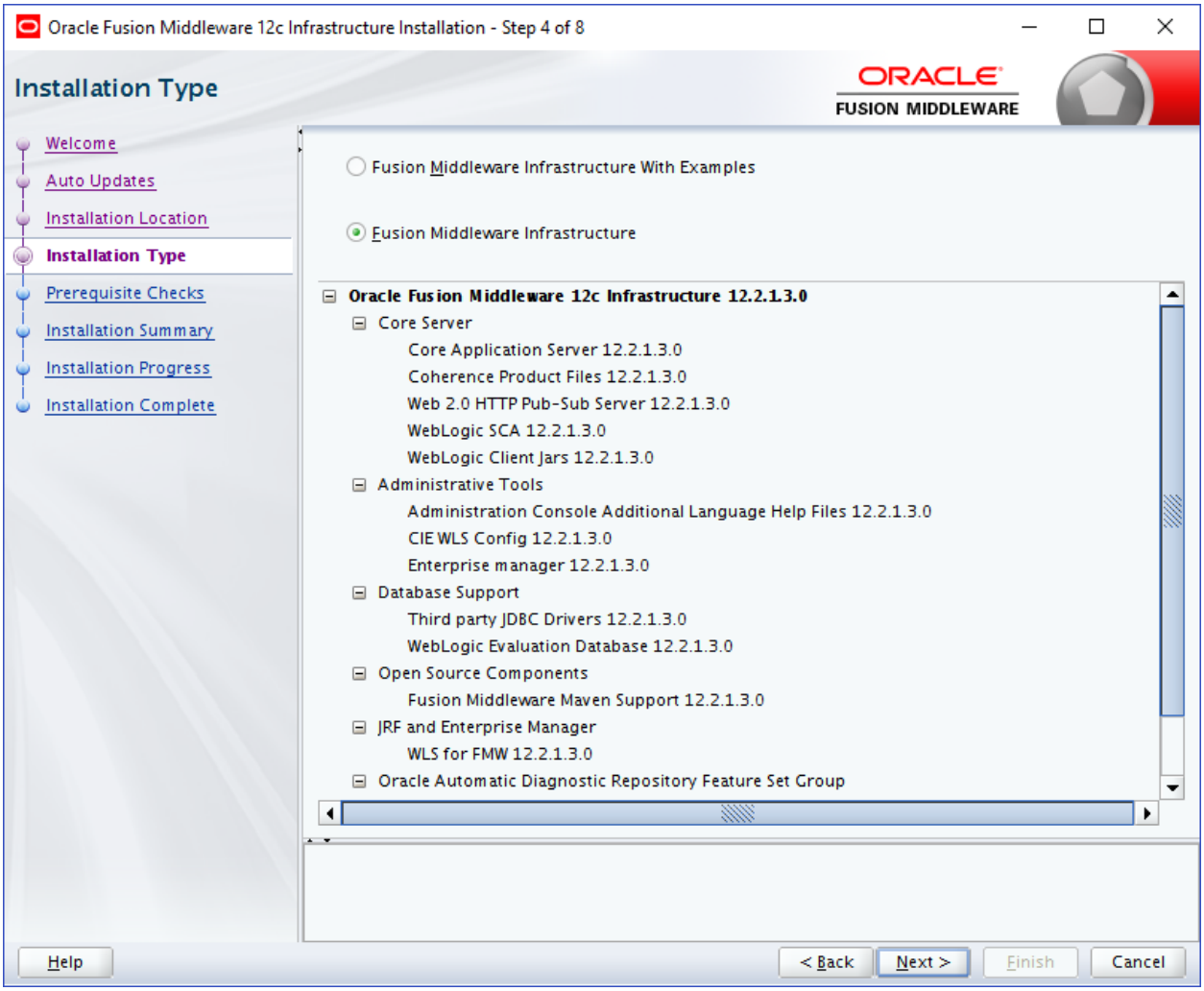
Specify the following installation locations:

- 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

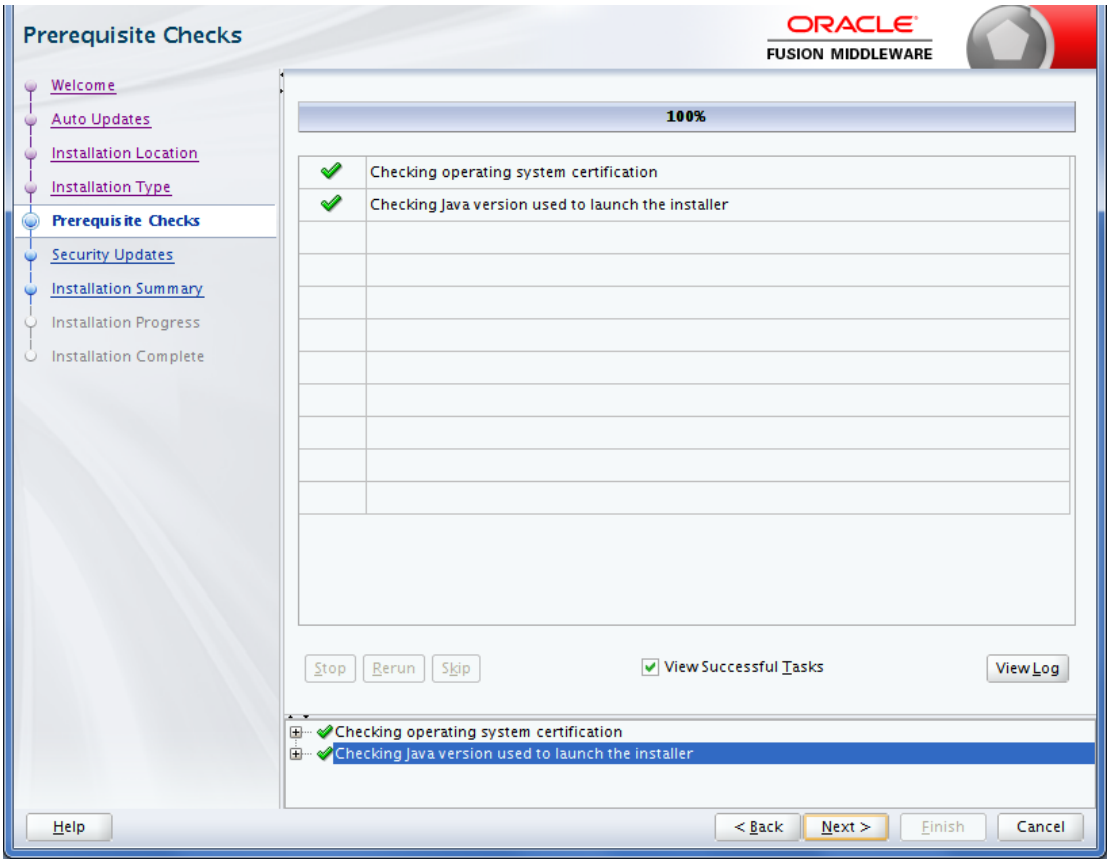


Following are the installation types:

- Fusion Middleware Infrastructure with Examples
- Fusion Middleware Infrastructure

Select Fusion Middleware Infrastructure and Click Next to continue.

Prerequisite Checks Screen

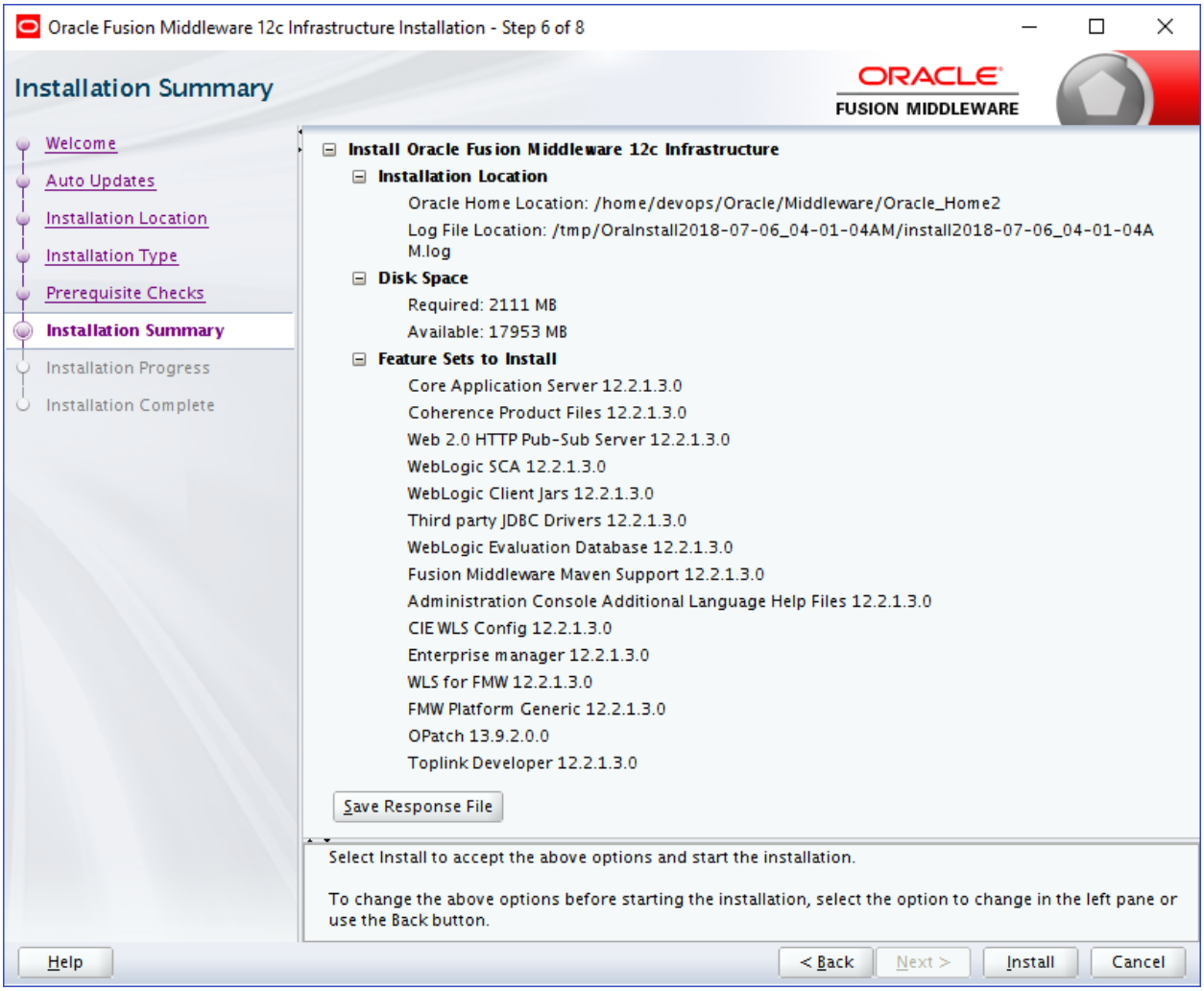


This screen shows whether the system requirements are met in order to install the software.

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.

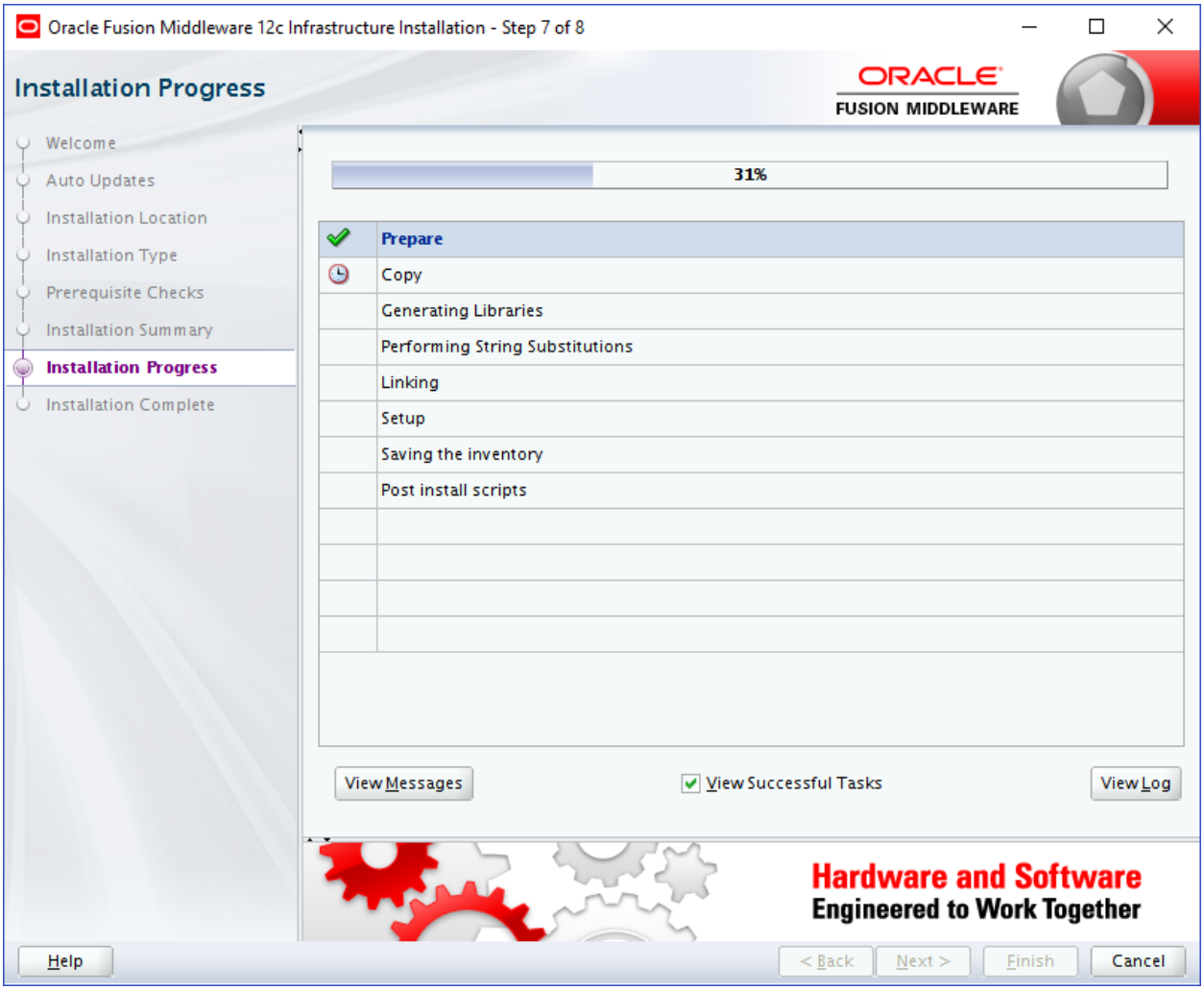
If you want to make any changes to the configuration before starting the installation, use the navigation pane, and select the topic you want to edit.

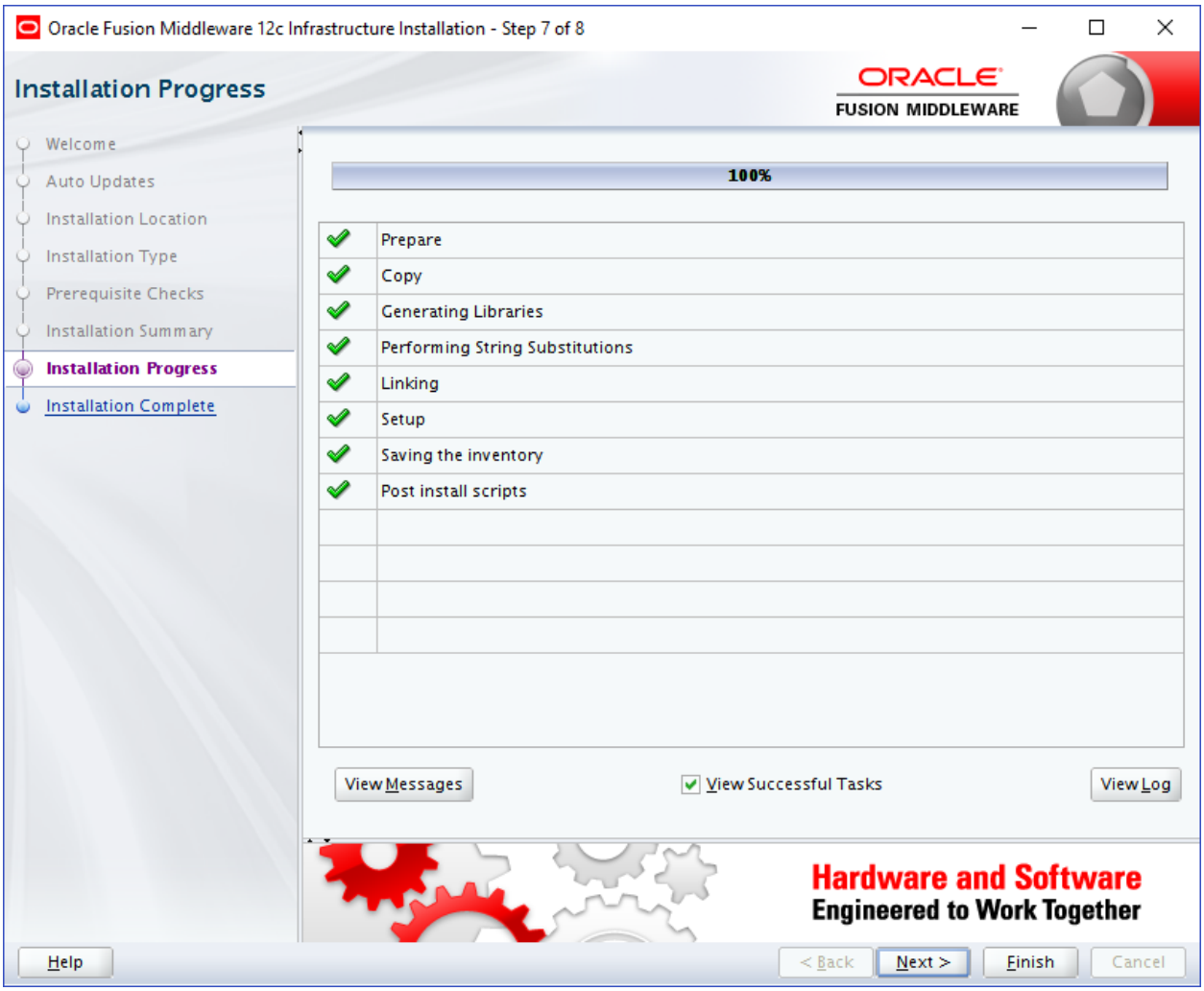
If you want to save this configuration to a text file (called a response file), click Save. You will be prompted for the location of name of the file you want to create (for example, silent_install.rsp). This file can be used later if you choose to perform the same installation from the command line.

Click Install.

Then screen shows the progress of the installation.

Installation Progress Screen

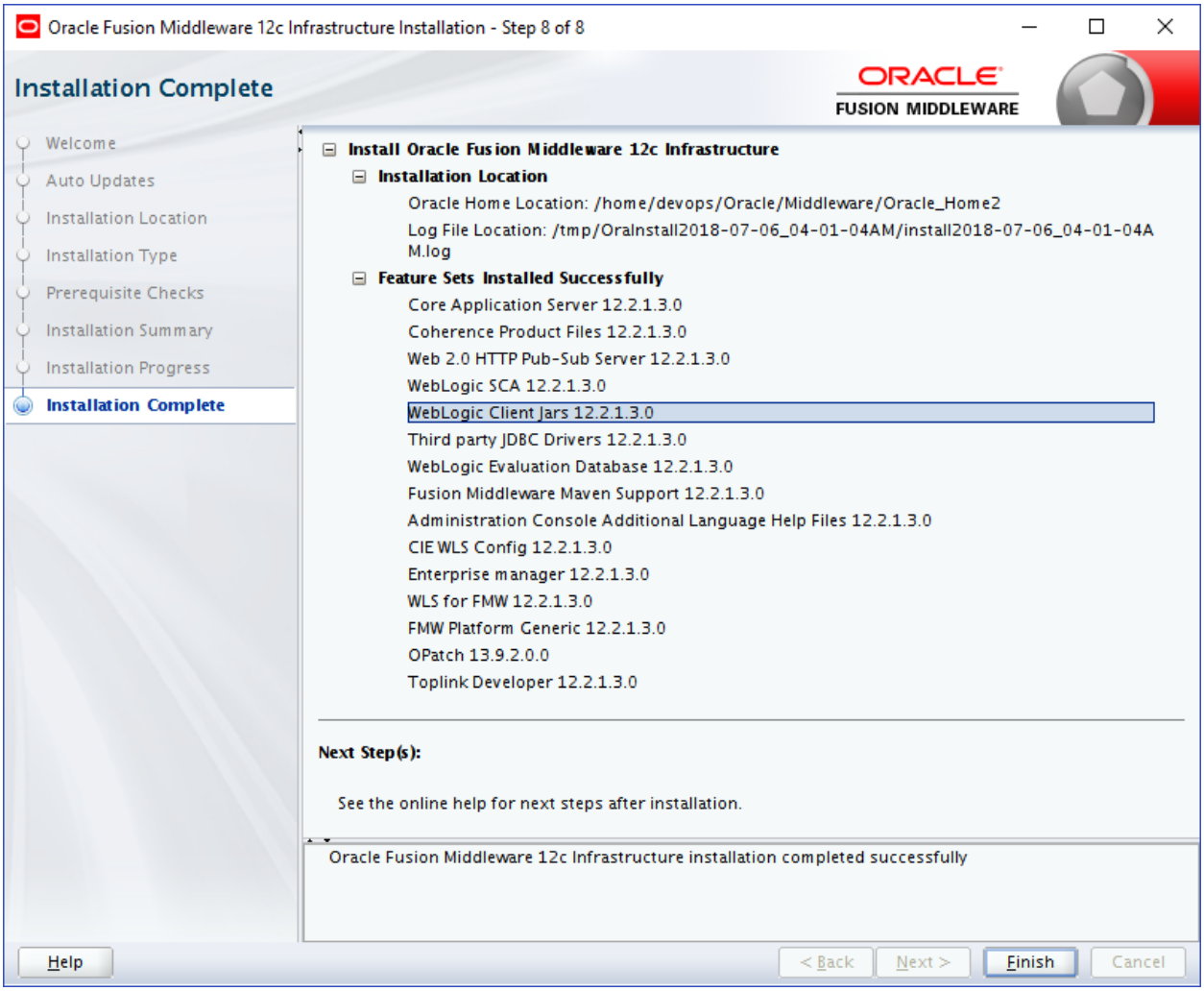




This screen shows the progress of the installation. Click Next.

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.

Home

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 11g includes modules developed specifically by Oracle. The features of single sign-on, clustered deployment, and high availability enhance the operation of the Oracle HTTP Server.
- **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.
- **Oracle Process Manager and Notification Server (OPMN):** OPMN provides a command-line interface for you to monitor and manage Oracle Fusion Middleware components and sub-components. The OPMN server should be started as soon as possible, after turning on the computer. OPMN must be running whenever OPMN-managed components are turned on or off.

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”

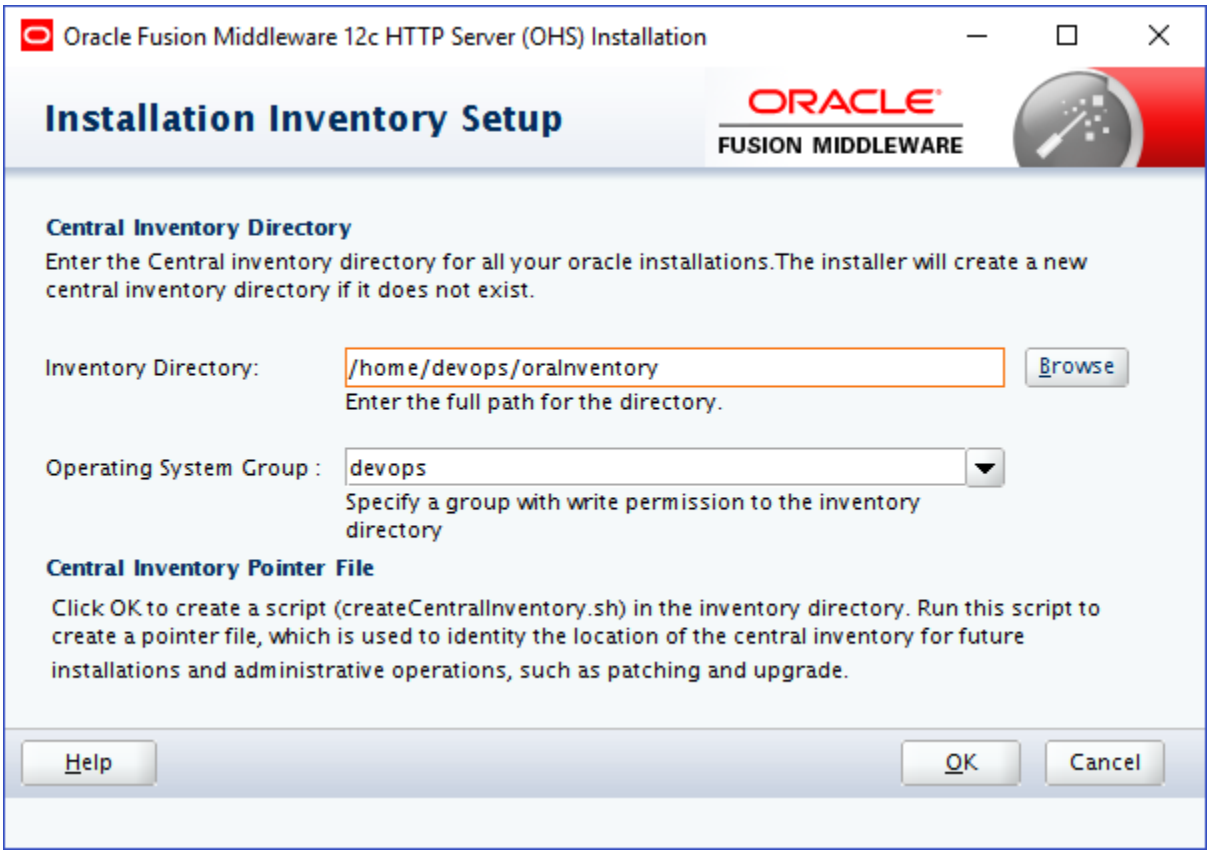
4.1 Installing and Configuring Oracle HTTP Server (OHS)

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.binNow, follow the instructions as shown below to install Webtier,

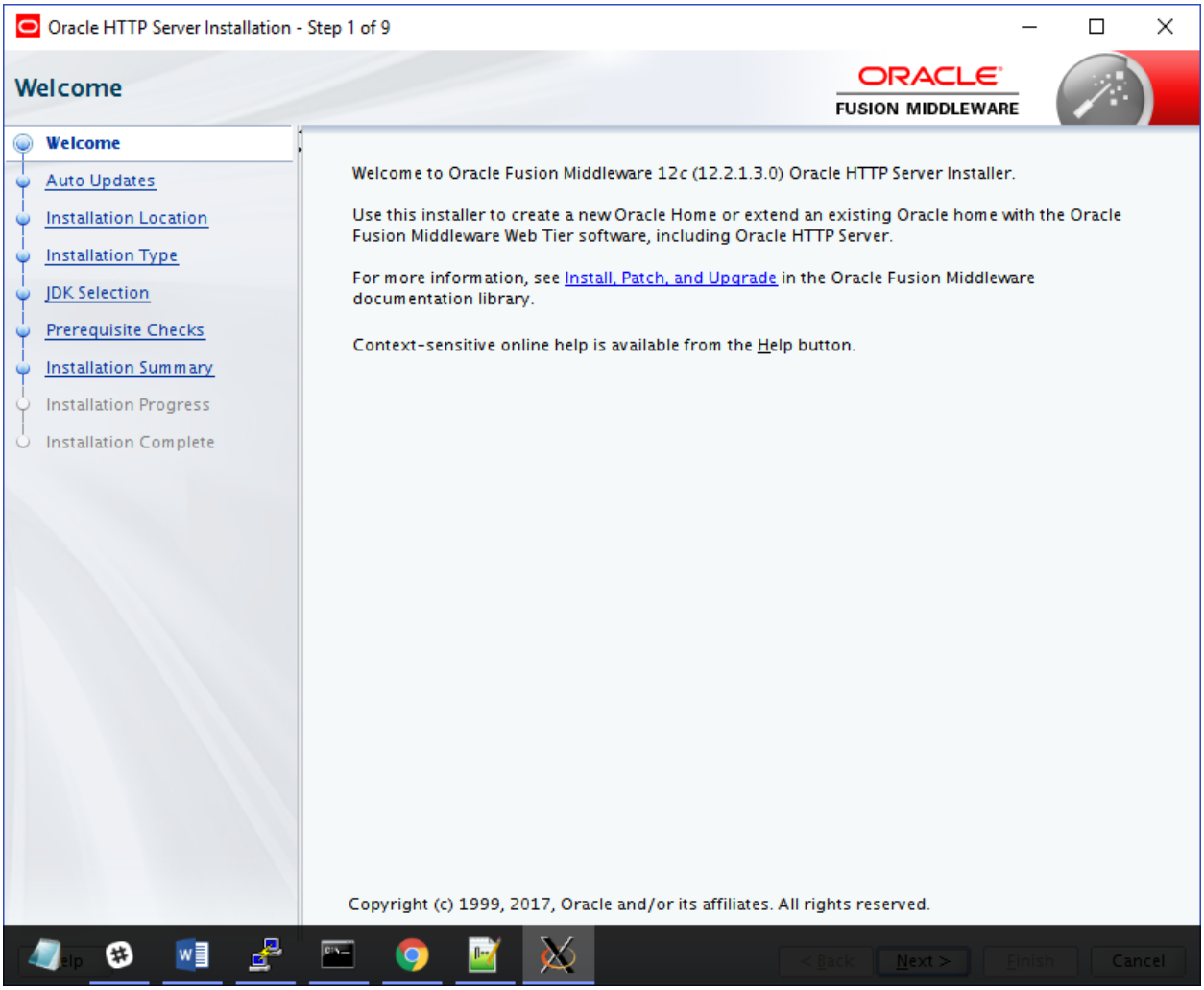
Specify Inventory Directory Screen



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.

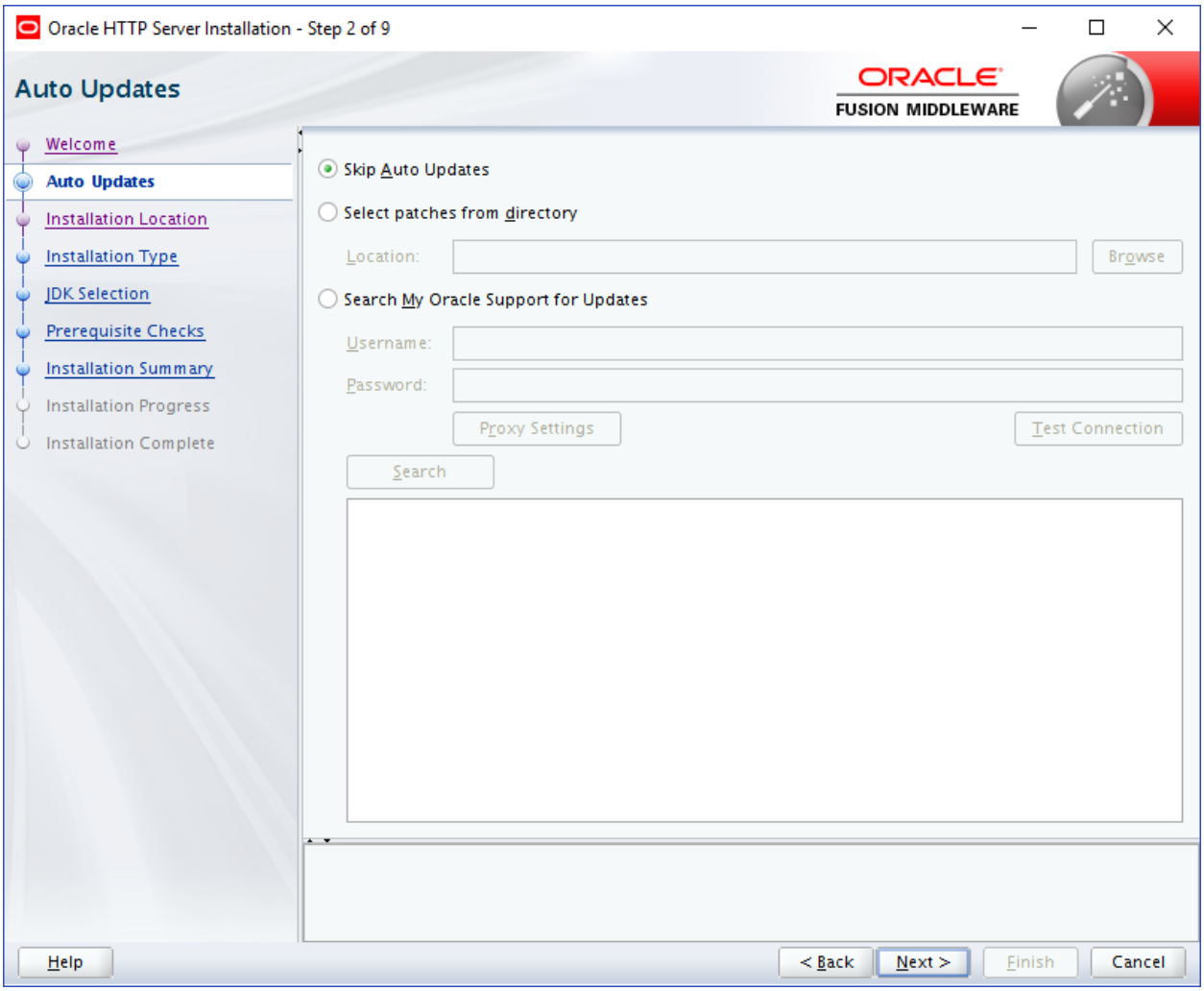
Welcome Screen



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

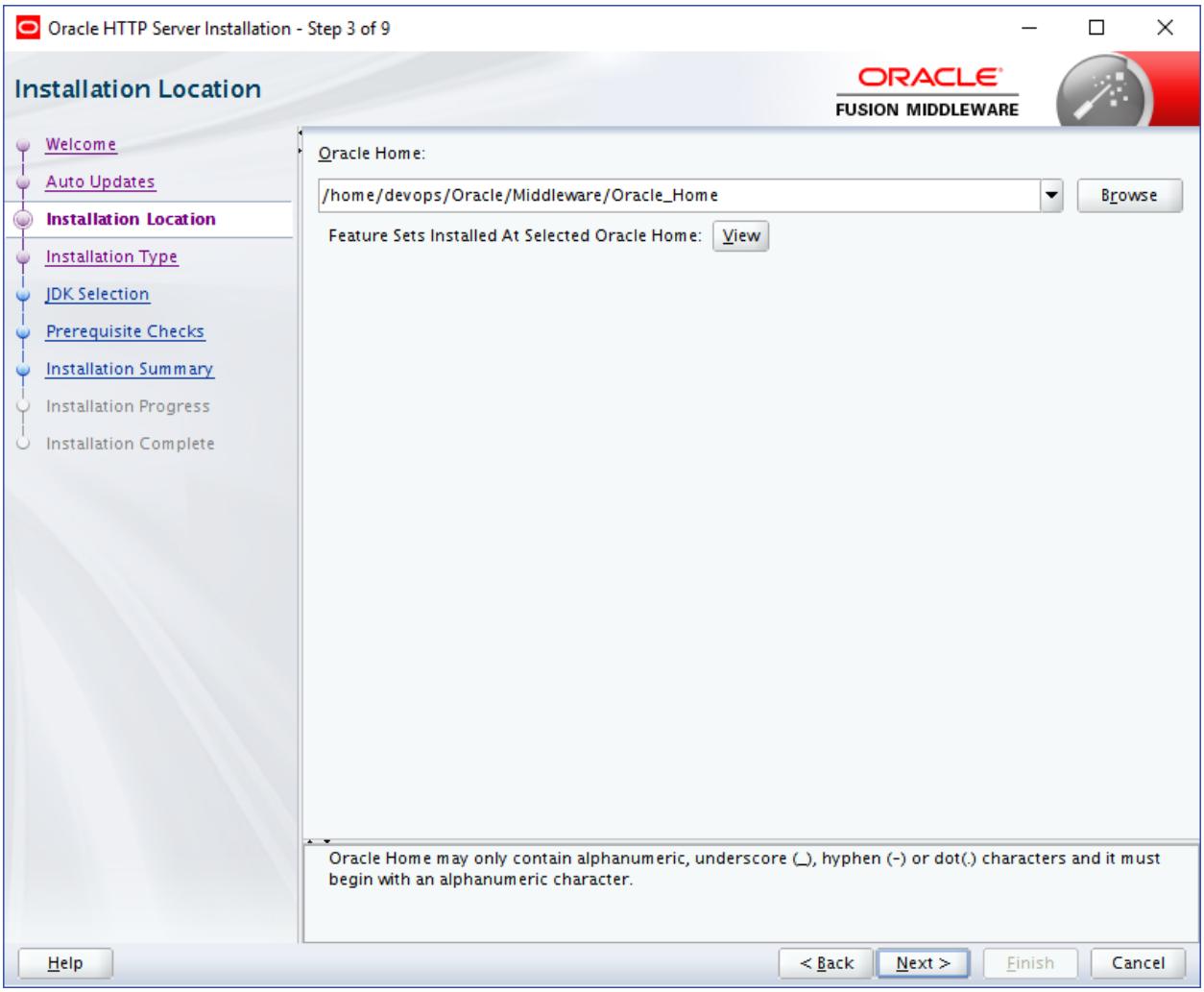
Click Next to continue.

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.)

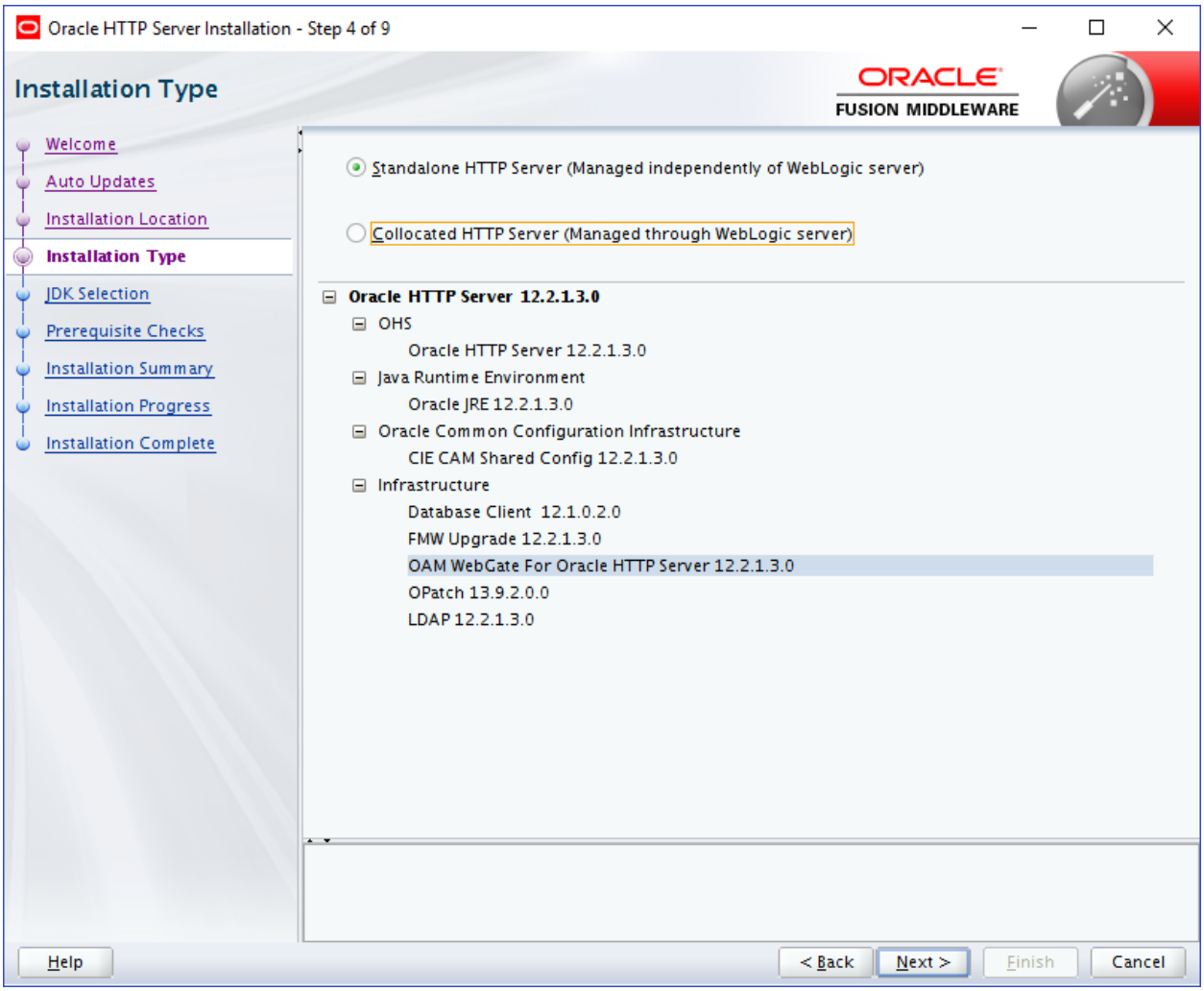
Select Installation Location



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

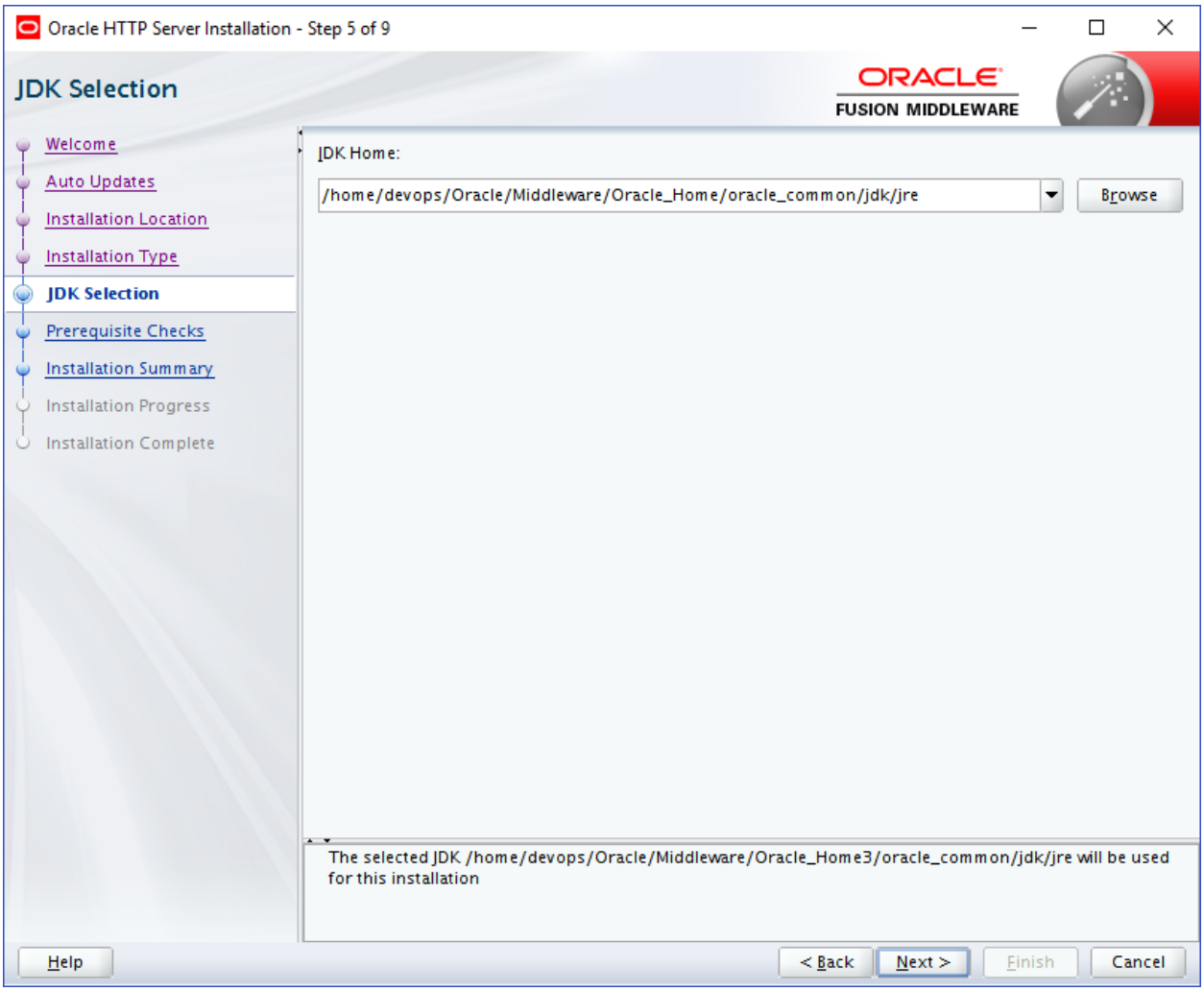


The following are the Installation Types available.

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

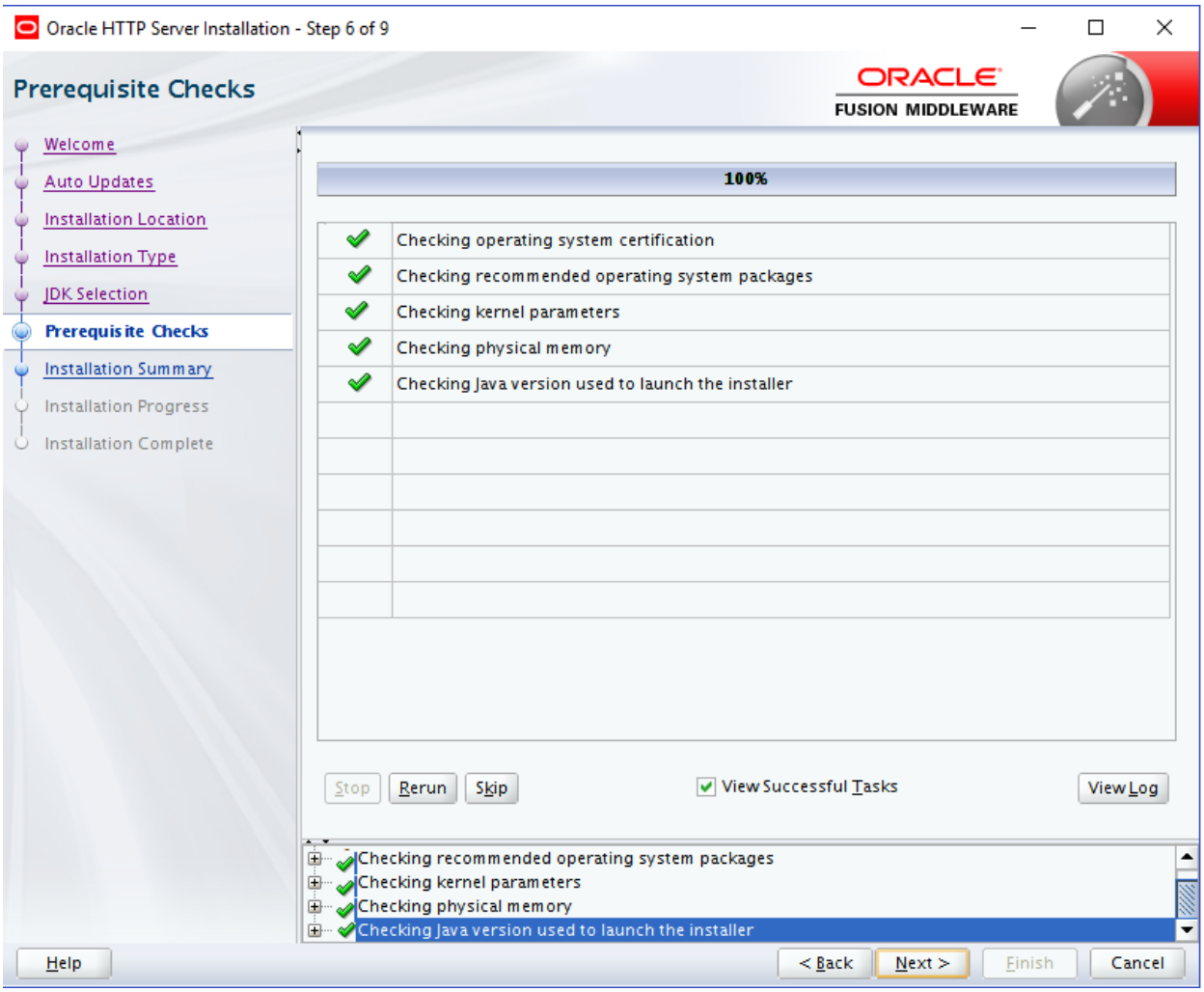
Choose installation type as per requirement. Select Standalone HTTP Server (Managed Independently of Weblogic Server). Click Next to continue.

Select JDK home



Click Next to continue

Prerequisite Checks Screen

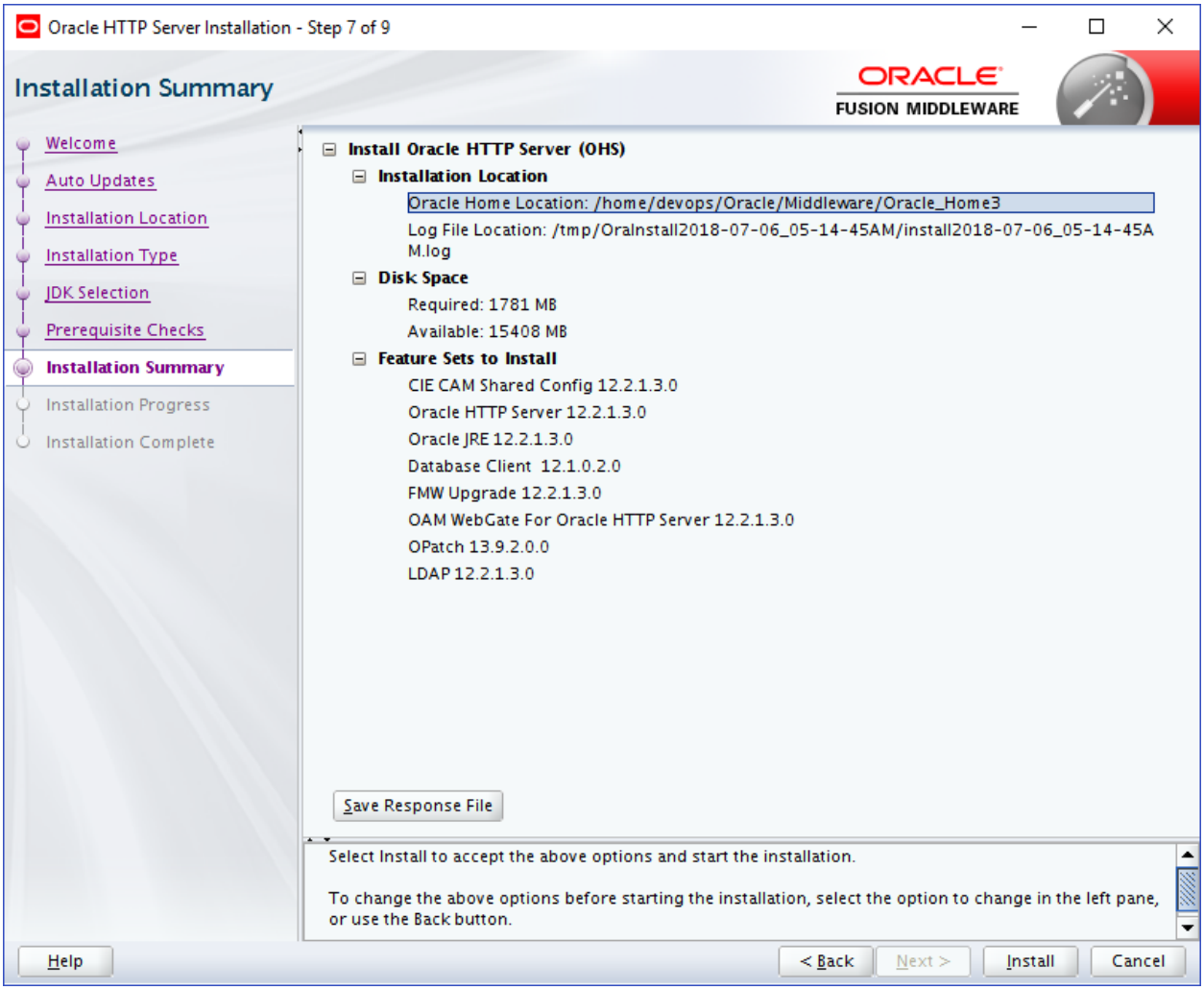


This screen shows whether the system requirements are met in order to install the software.

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.

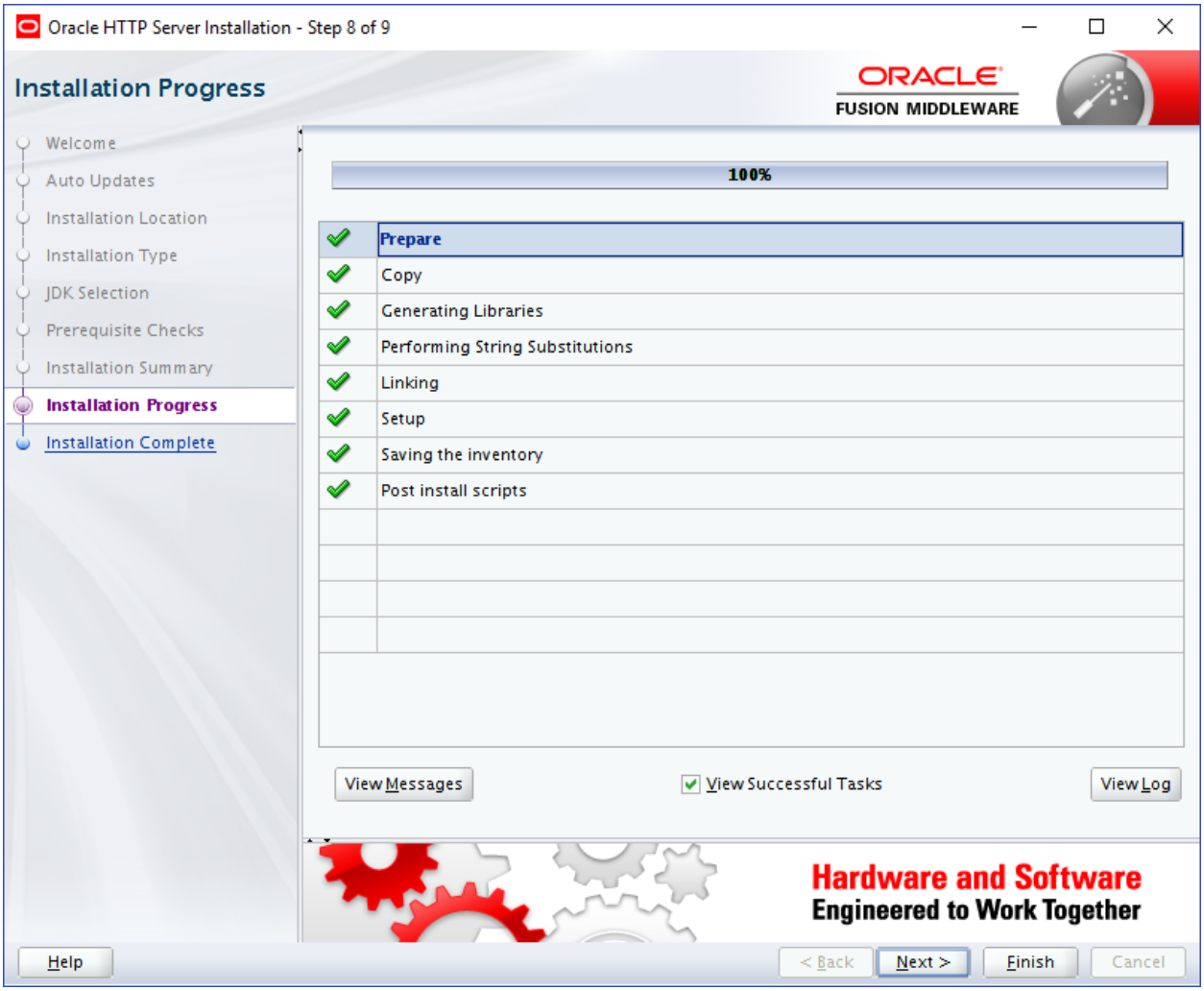
If you want to make any changes to the configuration before starting the installation, use the navigation pane, and select the topic you want to edit.

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

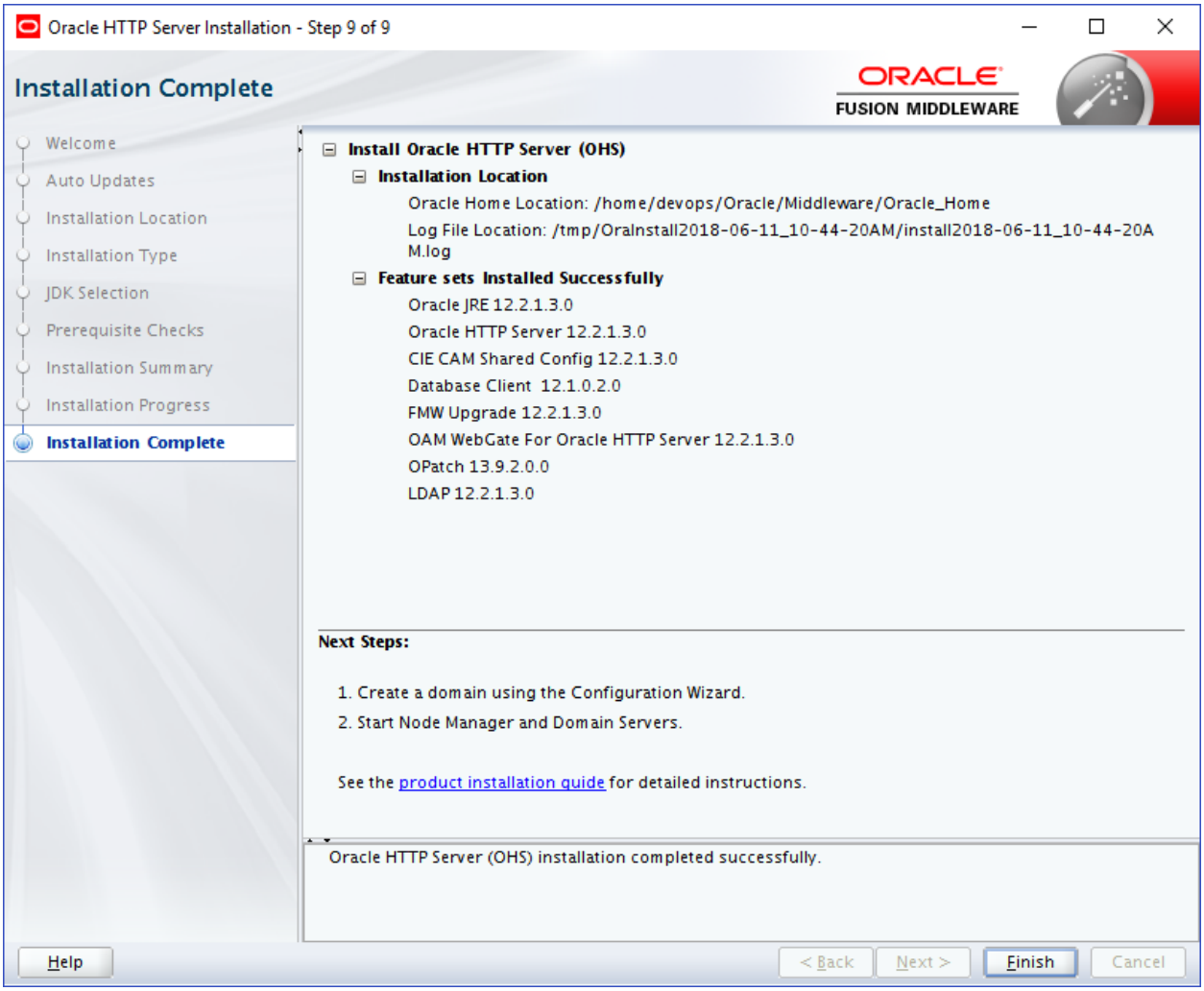


This screen shows the progress of the installation.

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.

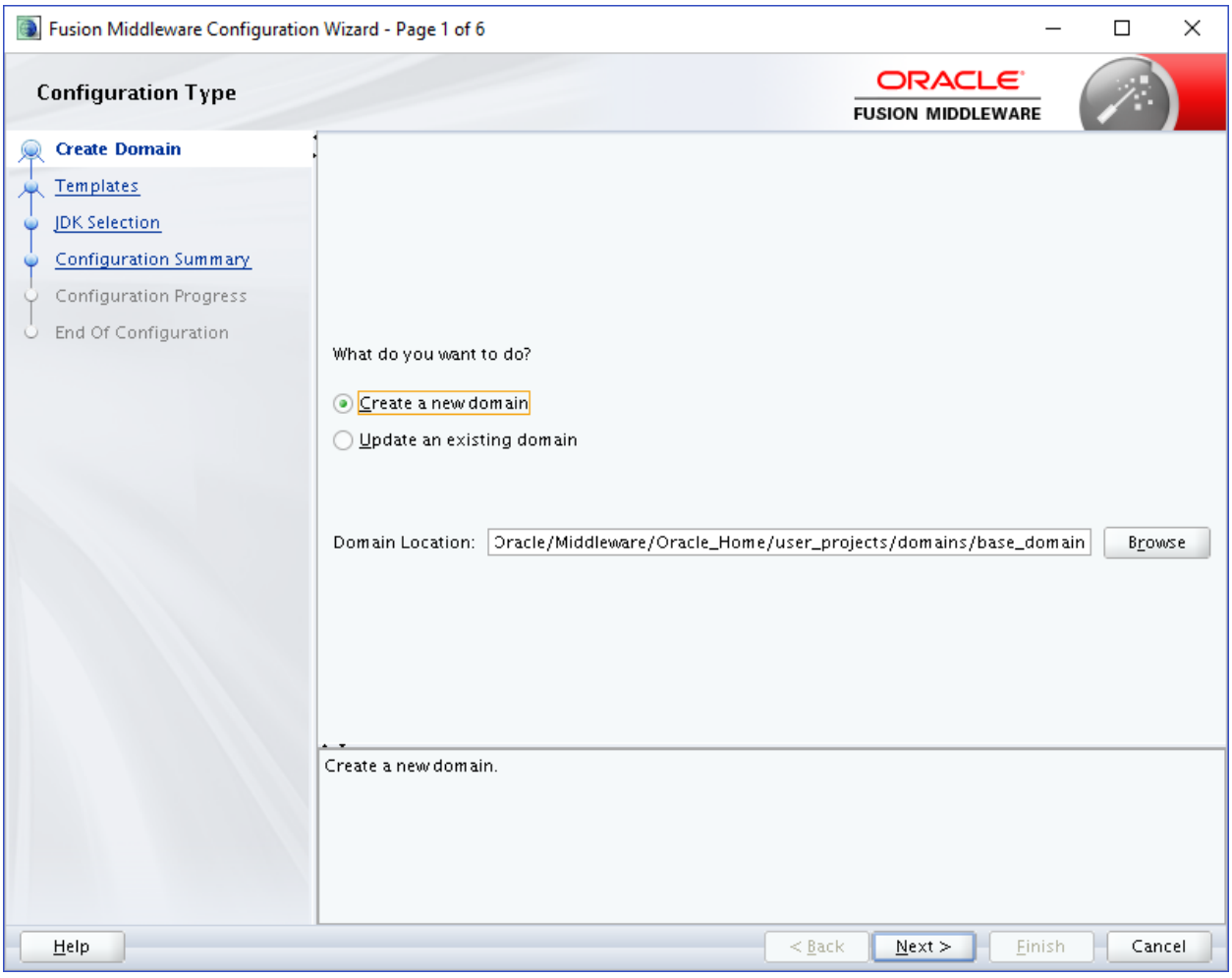
Configure the HTTP server

Follow below steps to configure domain for HTTP server

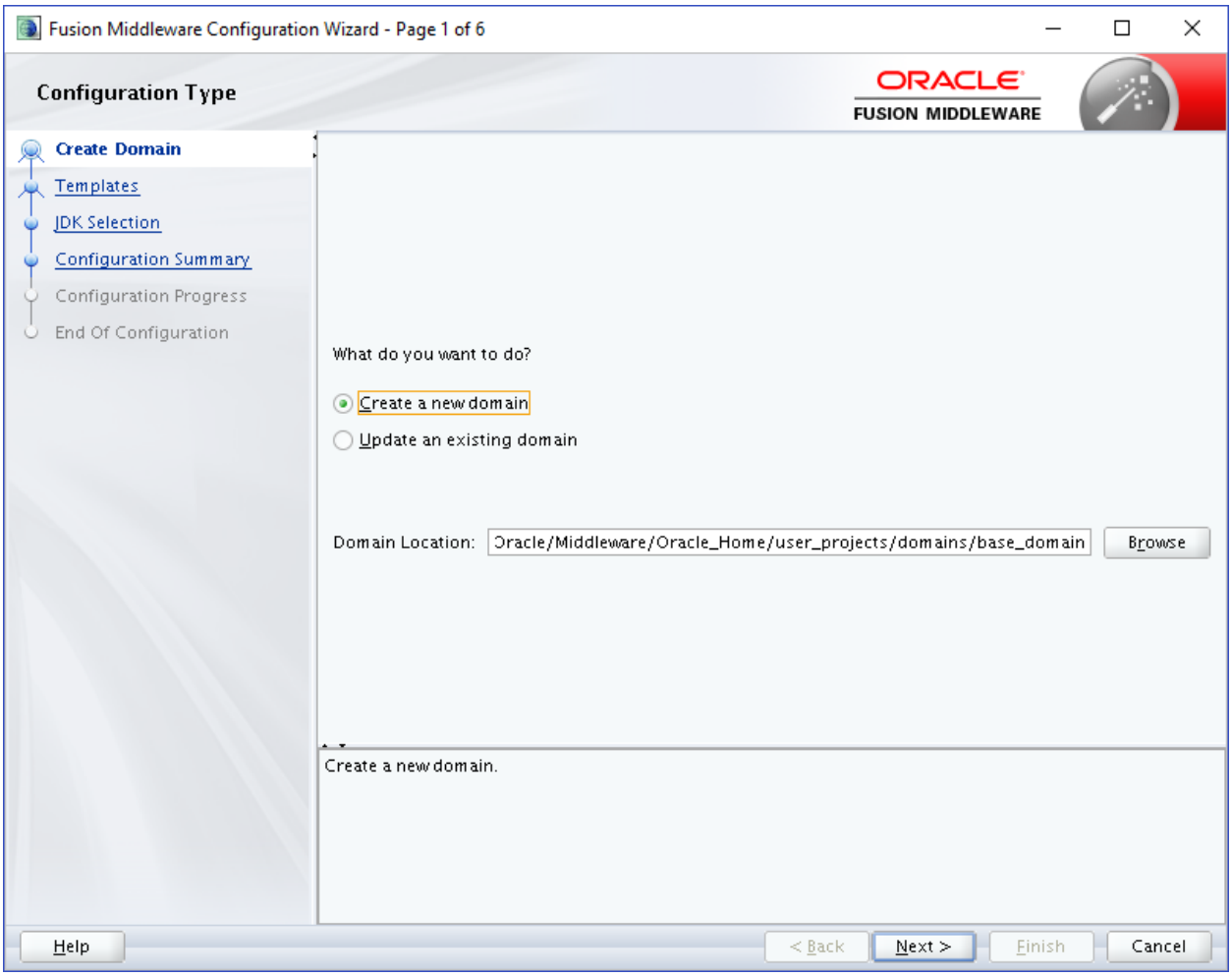
- Browse <Middleware_Home>/oracle_common/common/bin directory
- Execute below command

  ./config.sh

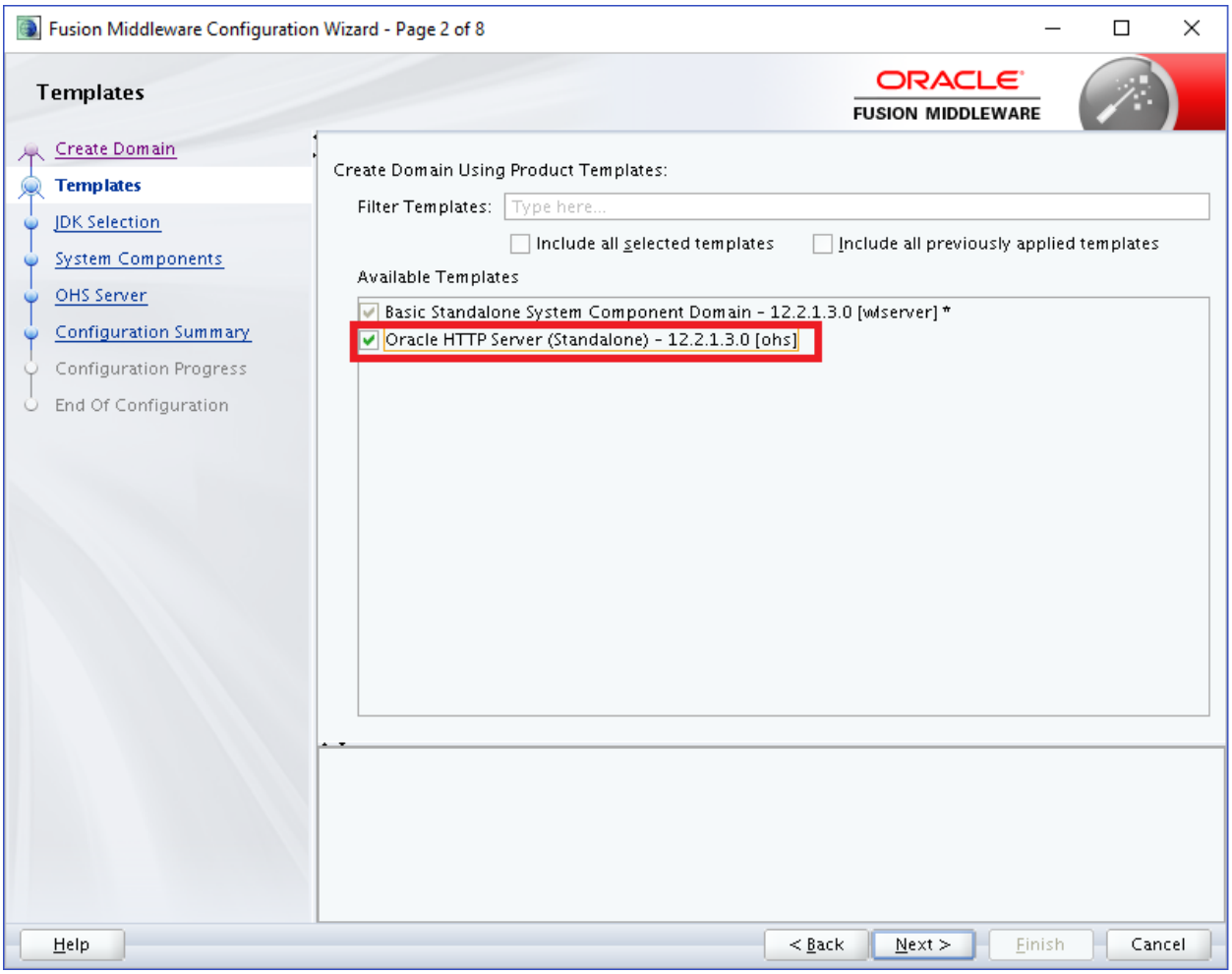
Below screen will be displayed



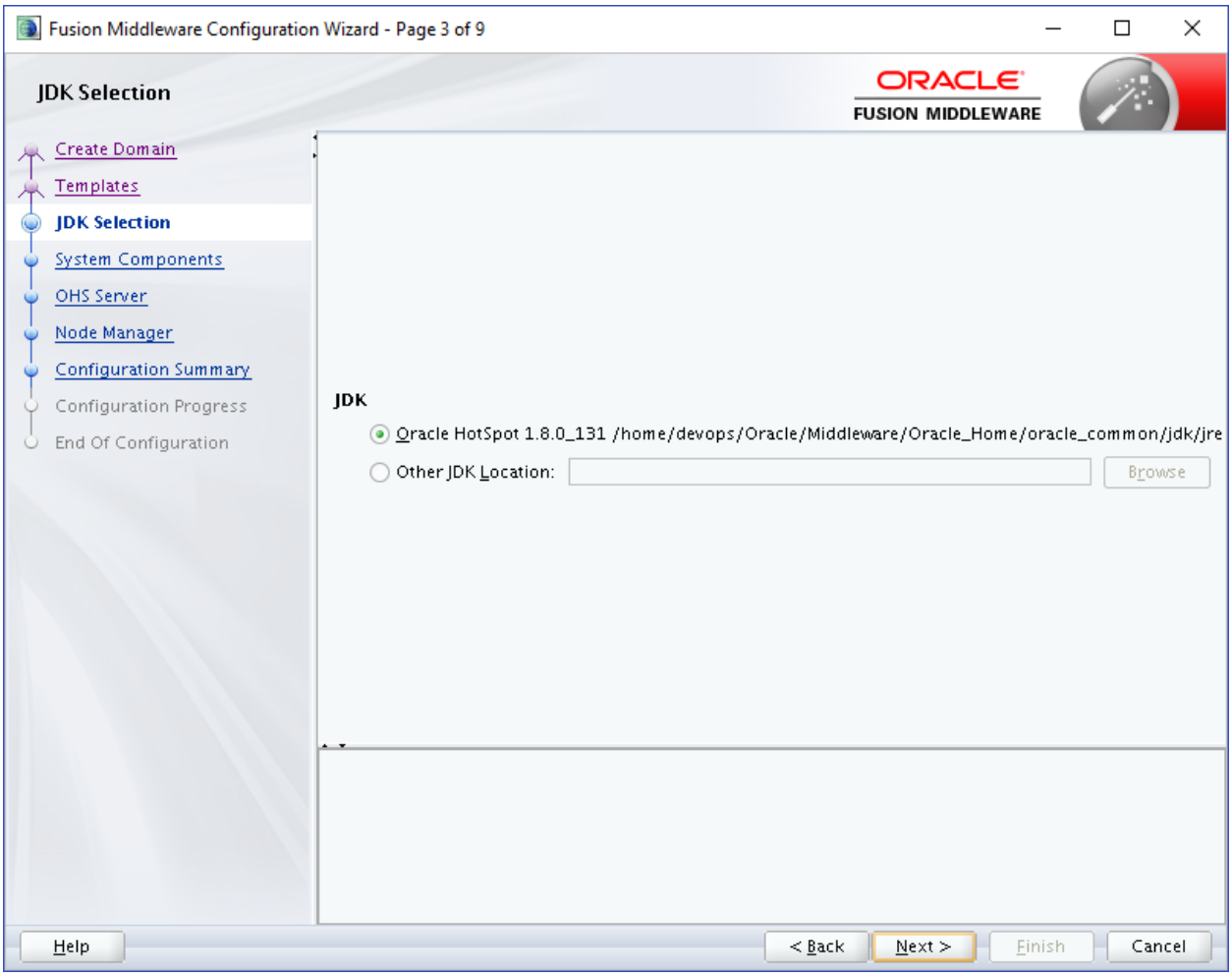
- Select “Create a new domain” option and select Domain location. Click Next



- Select Oracle HTTP Server option and click Next

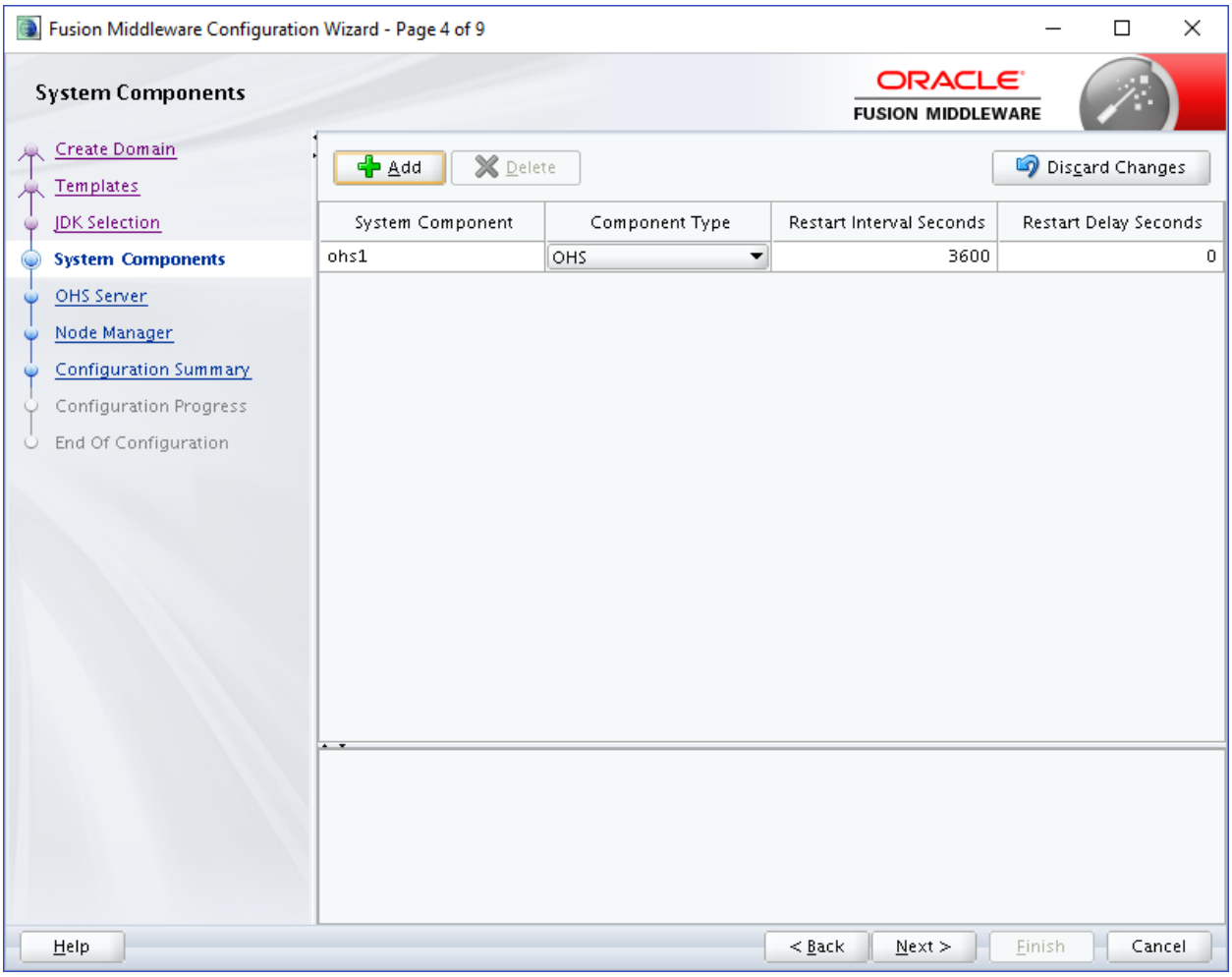

Fusion Middleware Configuration Wizard - Page 2 of 8
Templates
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
JDK Selection
System Components
OHS Server
Configuration Summary
Configuration Progress
End Of Configuration
Create Domain Using Product Templates:
Filter Templates:
Type here...
Include all selected templates
Include all previously applied templates
Available Templates
Basic Standalone System Component Domain - 12.2.1.3.0 [wlserver] *
Oracle HTTP Server (Standalone) - 12.2.1.3.0 [ohs]
Help
< Back
Next >
Finish
Cancel

- Click Next

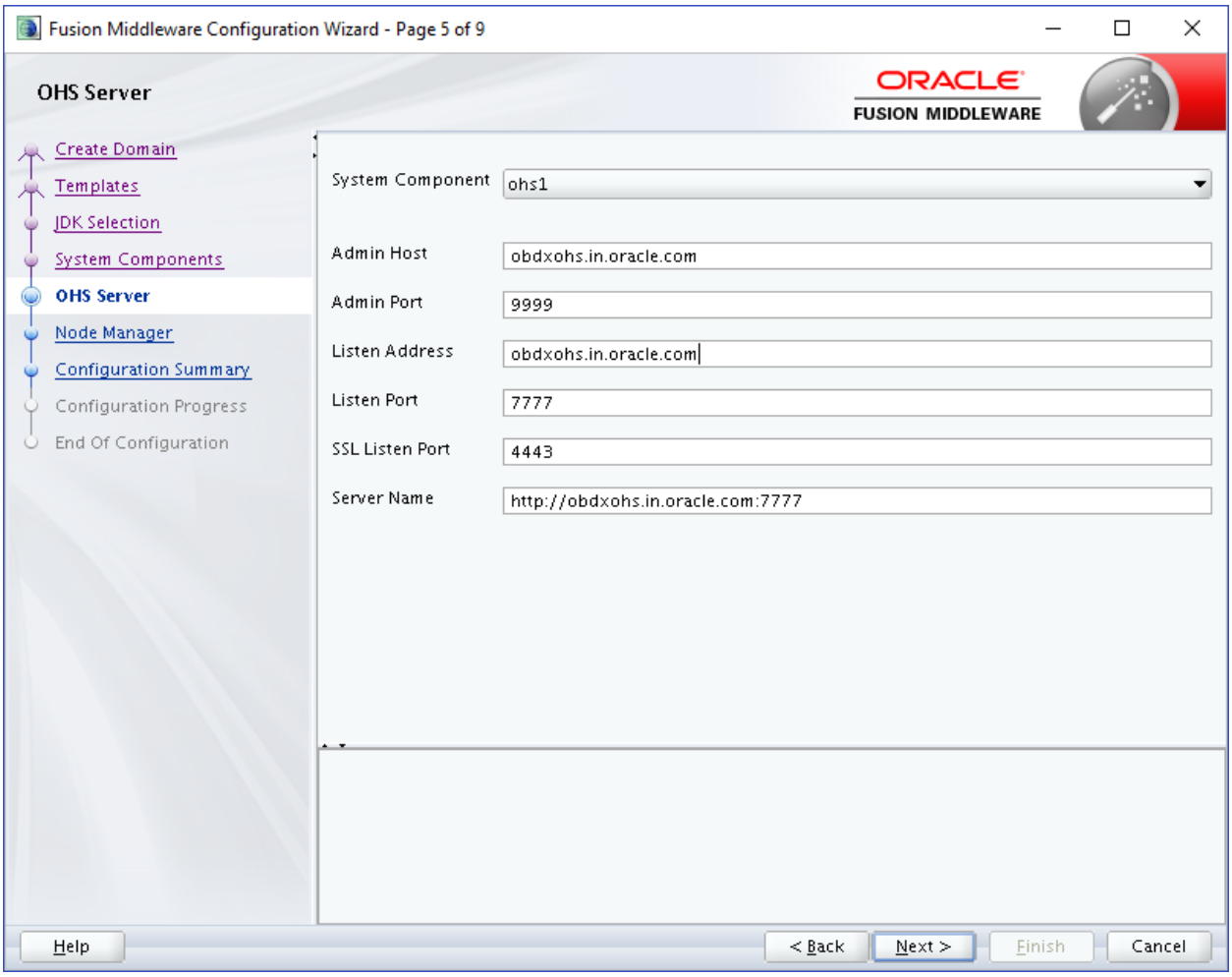


- Enter below details and click Next

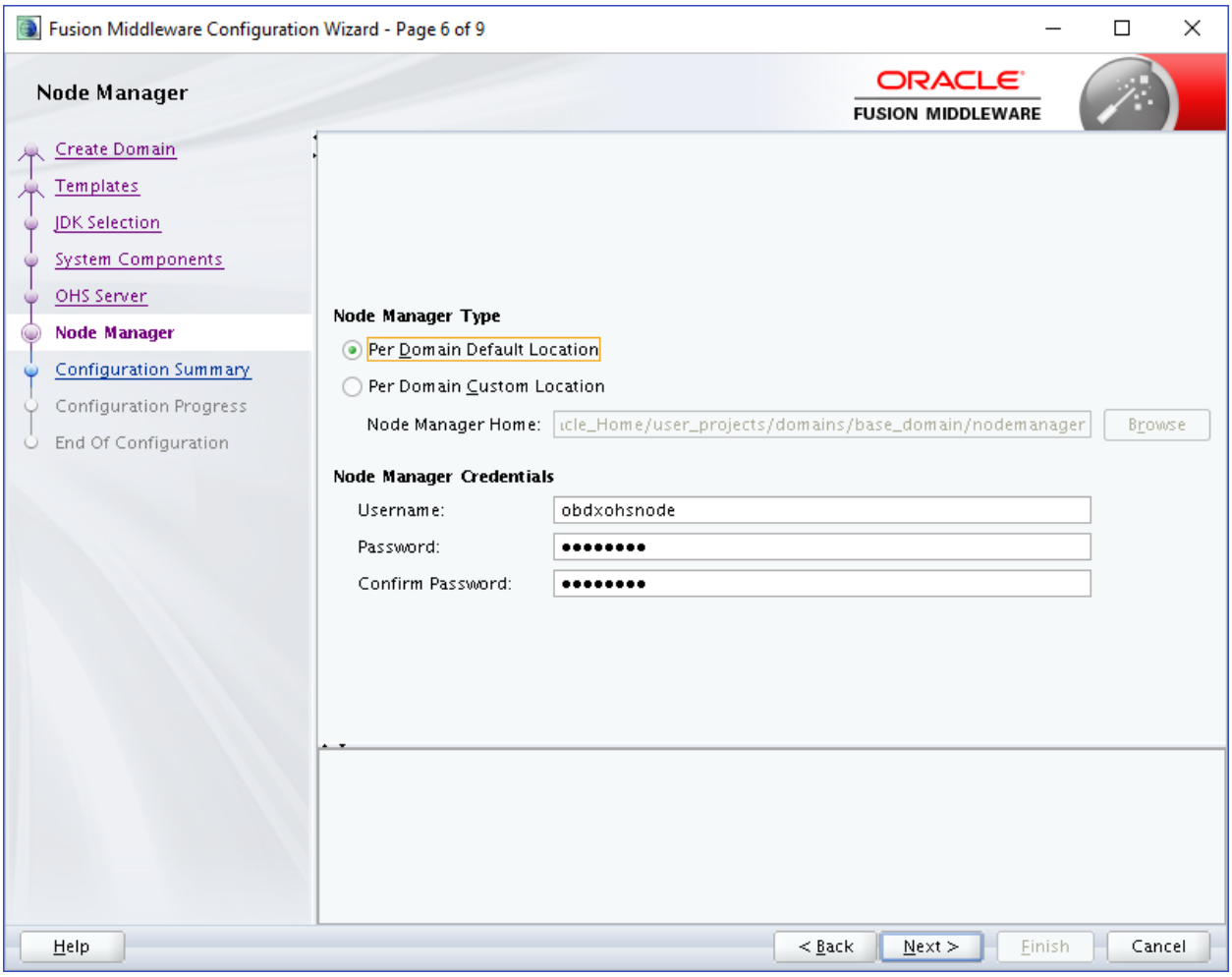
System Component: Set the Instance name
Component Type: Should be OHS
Restart Interval Seconds: Set as per requirement. Defaults to 3600
Restart Delay Seconds: Set as per requirement. Defaults to 0



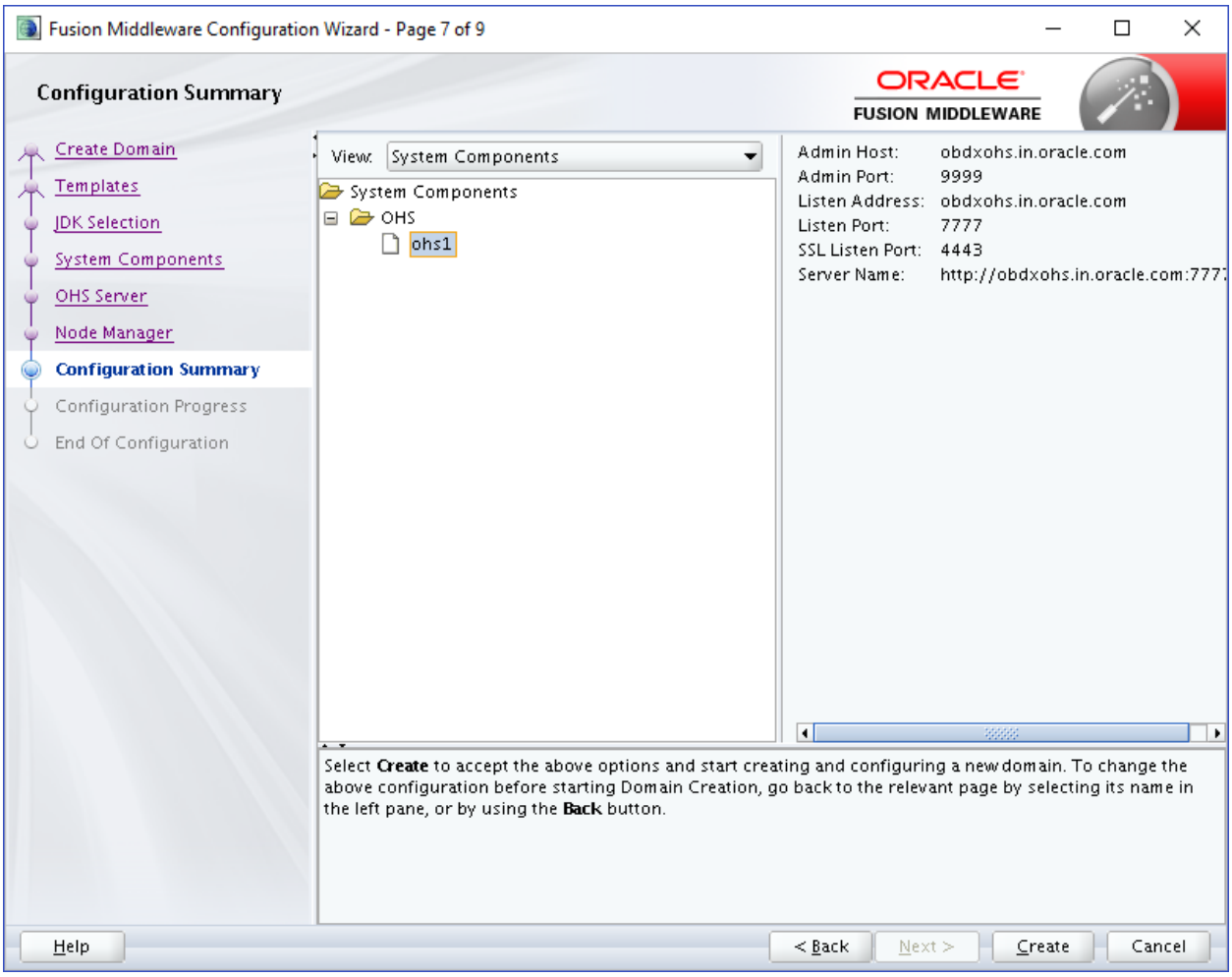
- Configure Admin Host; Port; Listen Address and click Next



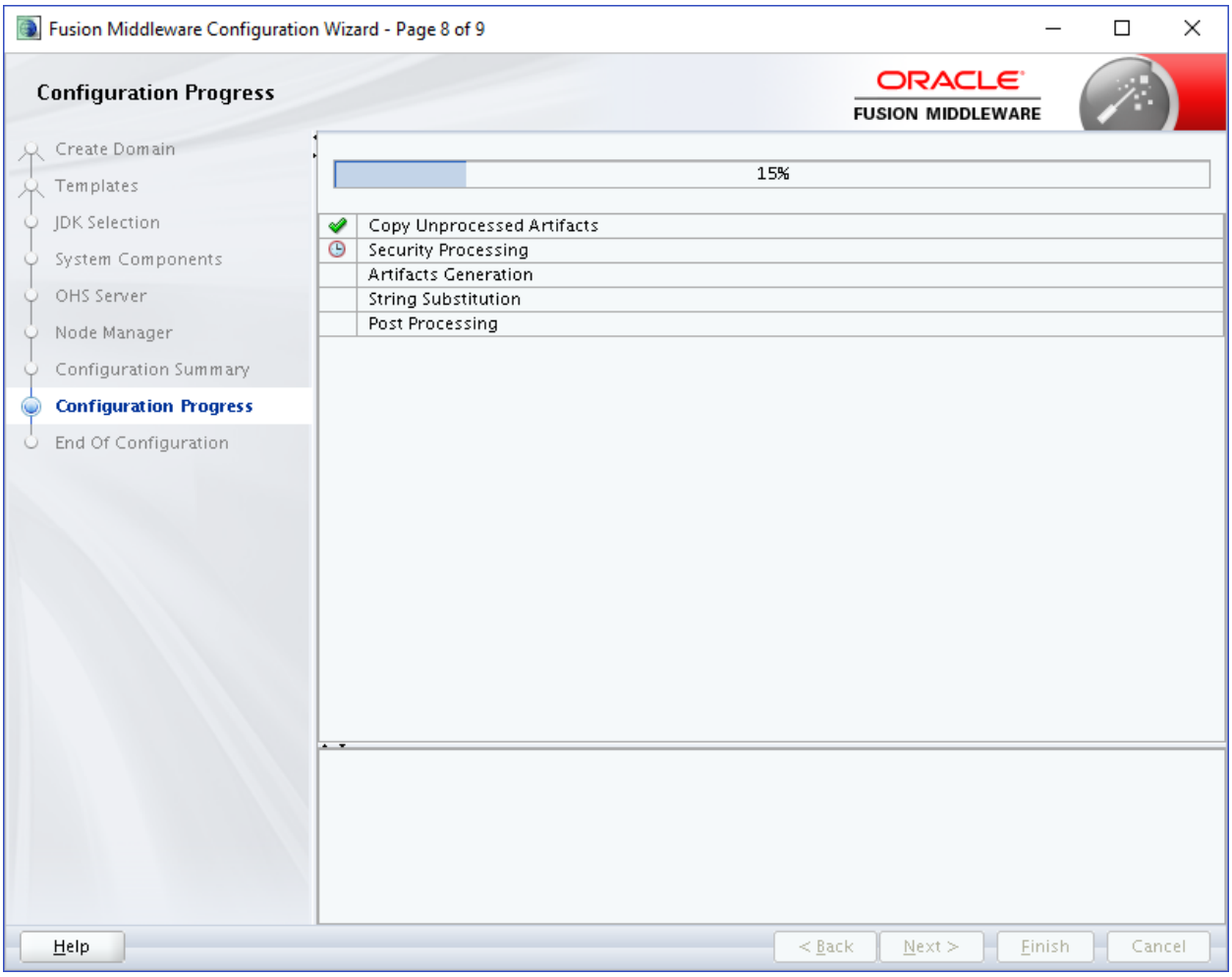
- Select appropriate Node Manager Type; and enter Node Manager Credentials. Click Next.

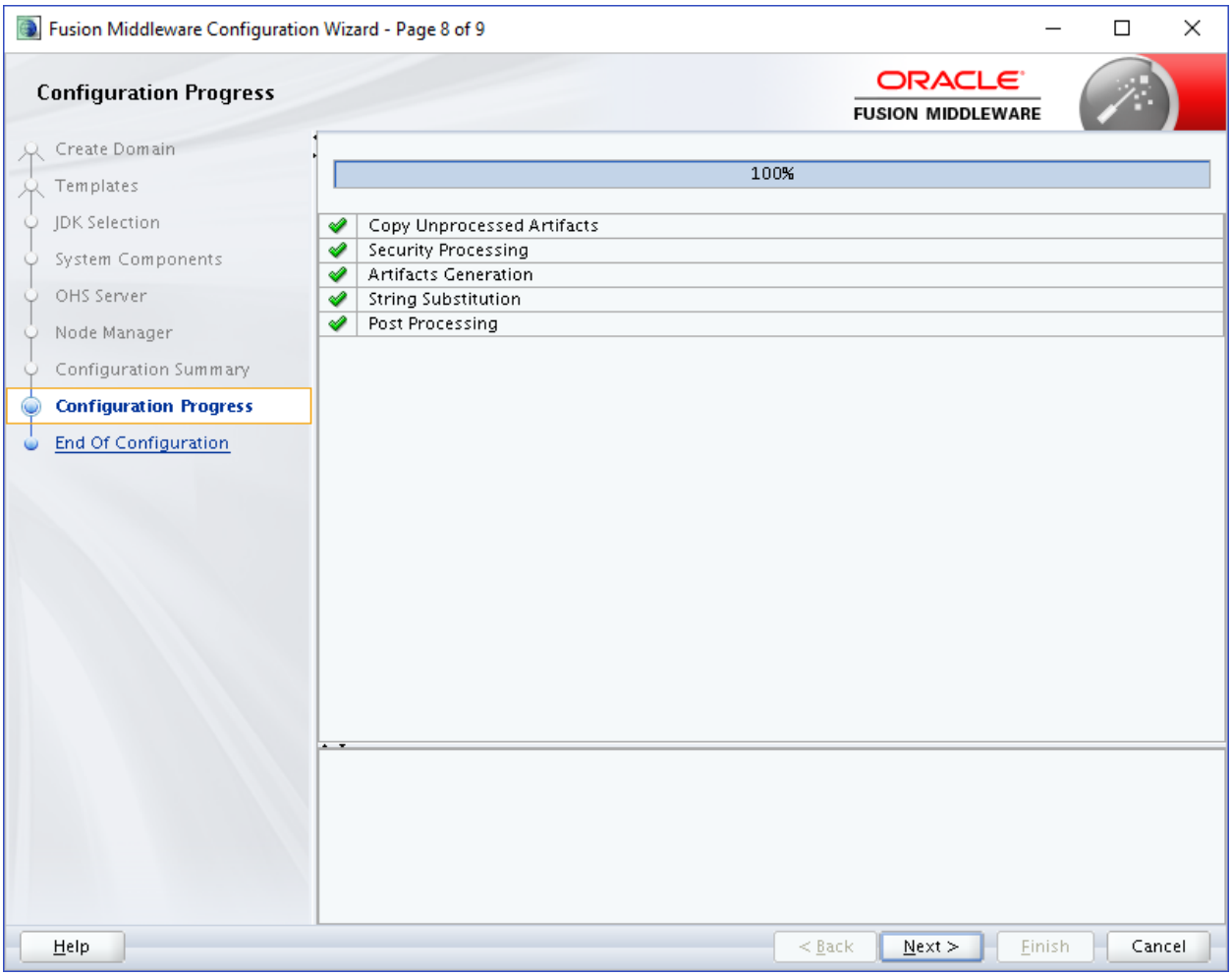


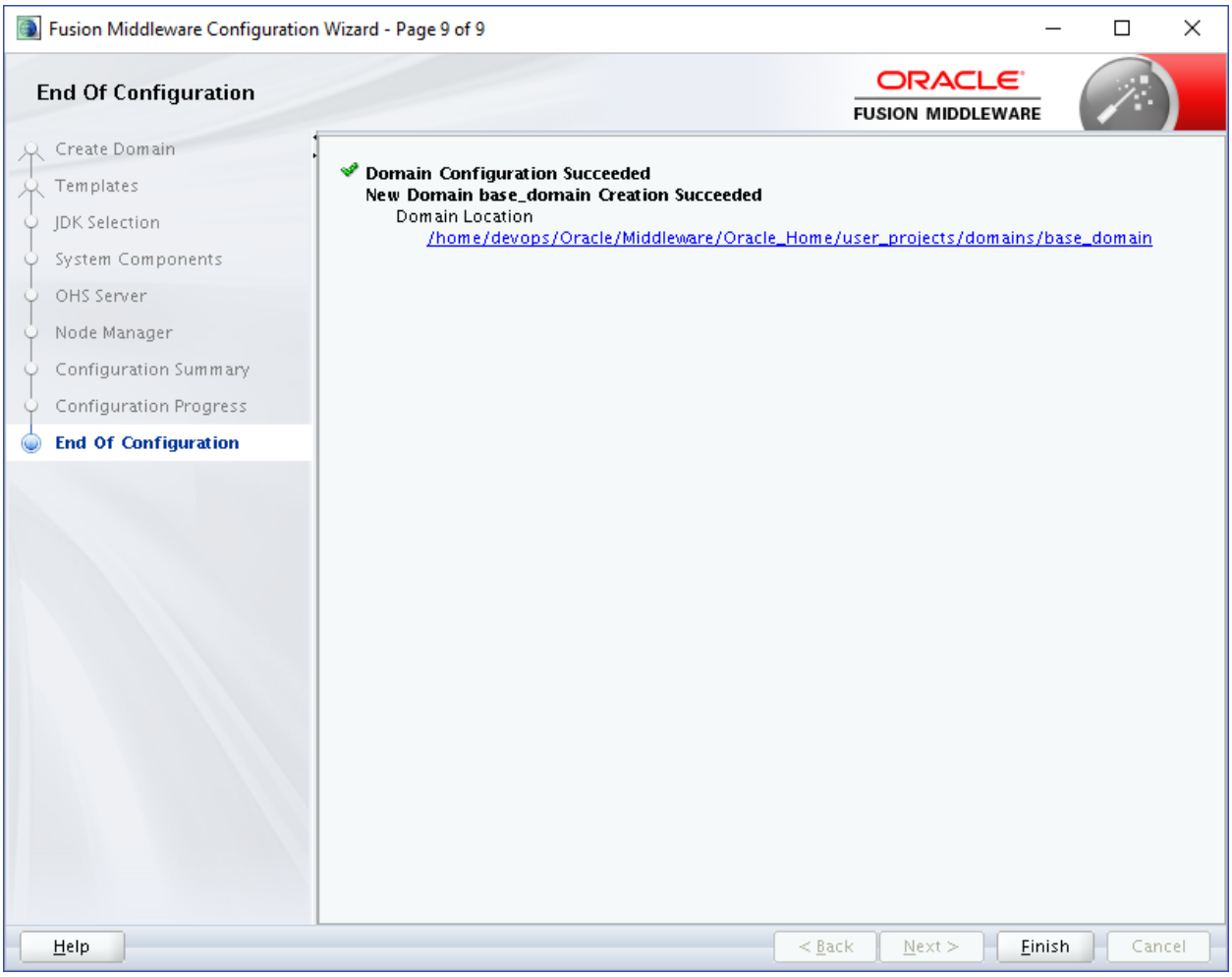
- Review summary and click Create



- Below installation progress can be seen


Fusion Middleware Configuration Wizard - Page 8 of 9
Configuration Progress
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
JDK Selection
System Components
OHS Server
Node Manager
Configuration Summary
Configuration Progress
End Of Configuration
15%
Copy Unprocessed Artifacts
Security Processing
Artifacts Generation
String Substitution
Post Processing
Help
< Back
Next >
Finish
Cancel


Fusion Middleware Configuration Wizard - Page 8 of 9
Configuration Progress
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
JDK Selection
System Components
OHS Server
Node Manager
Configuration Summary
Configuration Progress
End Of Configuration
100%
Copy Unprocessed Artifacts
Security Processing
Artifacts Generation
String Substitution
Post Processing
Help
< Back
Next >
Finish
Cancel



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 /home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/bin

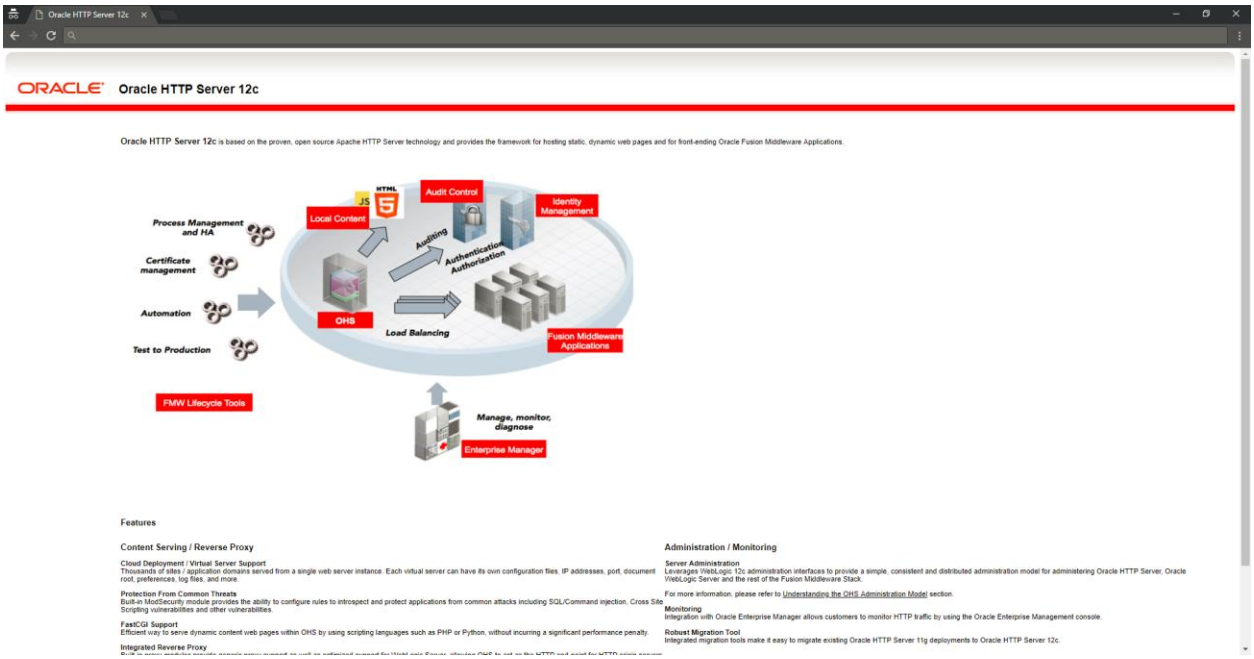
  ./startNodeManager.sh

- 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 11g WebGate"

Configuring Oracle WebgateYou 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

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/com
ponents/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.

5.1 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**

5.2 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 Identity and Access Management Installation and Configuration

Oracle Identity and Access Management (IAM) components enable enterprises to manage the end-to-end lifecycle of user identities across all enterprise resources - both within and beyond the firewall. With IAM, you can deploy applications faster, apply the most granular protection to enterprise resources, automatically eliminate latent access privileges, and much more. Following components are included in IAM:

- Oracle Identity Manager
- Oracle Access Management
- Oracle Adaptive Access Manager
- Oracle Entitlements Server
- Oracle Privileged Account Manager
- Oracle Access Management Mobile and Social
- Oracle Mobile Security Suite

This chapter provides information for installing IAM and includes the following topics:

- Section 6.1, "Pre-requisite - Installing Java 1.8"
- Section 6.2, "Pre-requisite - Installing Weblogic 12.2.1.3"
- Section 6.3, "Installing Oracle Identity and Access Management (IAM)"

6.1 Pre-requisite - Installing Java 1.8

Obtain the Java tarball pack from the Oracle Java Downloads. Download ***jdk-8u131-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-8u131-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_131

  export PATH=$JAVA_HOME/bin:$PATH

6.2 Pre-requisite - Installing Weblogic 12.2.1.3

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 6.2.1, "Installing Weblogic"
- Section 6.2.2, "Verifying the Installation"

6.2.1 Installing Weblogic

Obtain Weblogic 12.2.1.3 JAR from the Oracle Fusion Middleware Downloads. Download ***fmw_12.2.1.3.0_infrastructure.jar***file to a directory.

- Now to start the installer, go to the directory where you downloaded the file.
- Start the installer from the same directory using the below command:

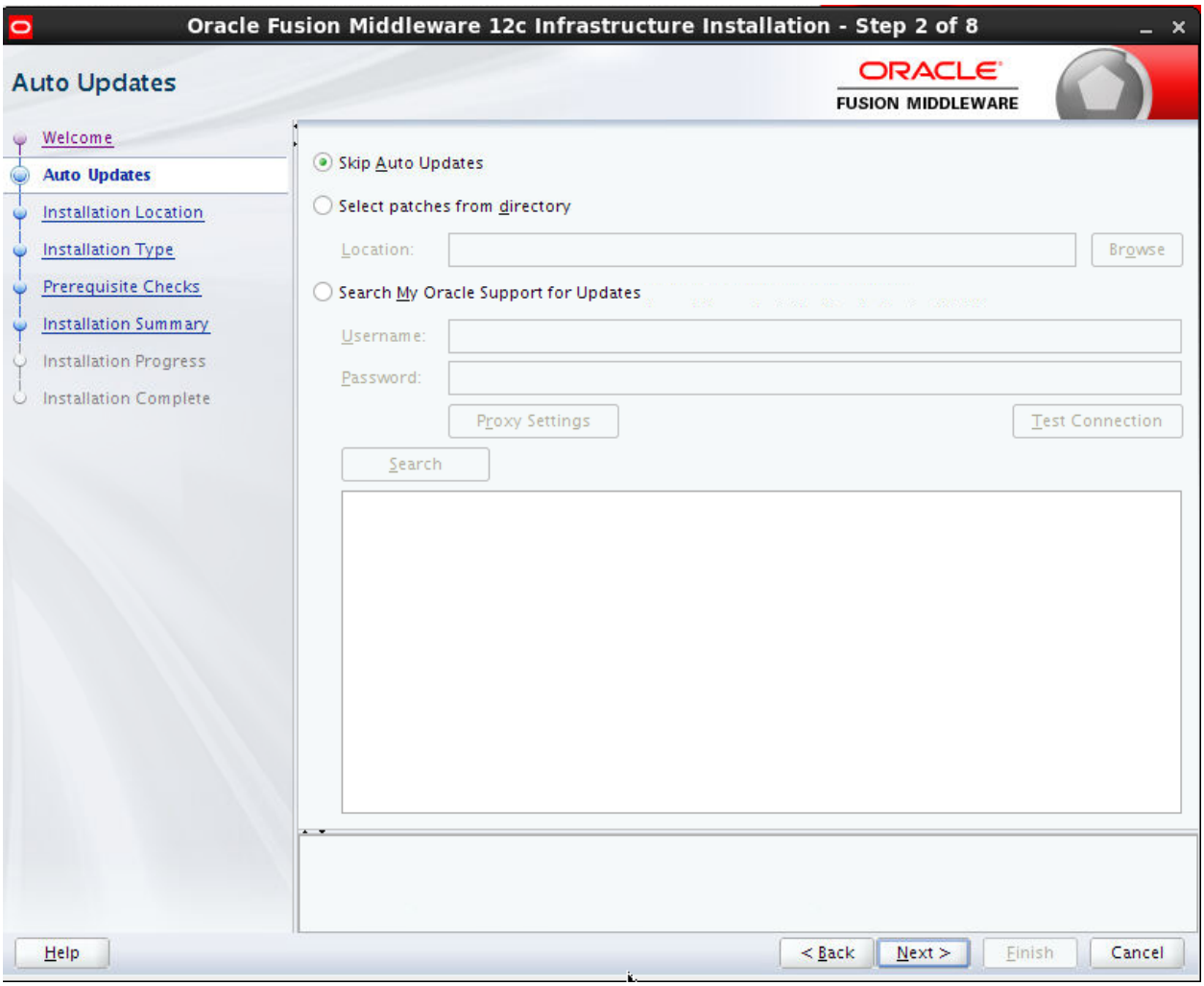
java –jar <Path>/fmw_12.2.1.3.0_infrastructure.jar

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

Follow the instructions as shown below for installation:

Welcome Screen

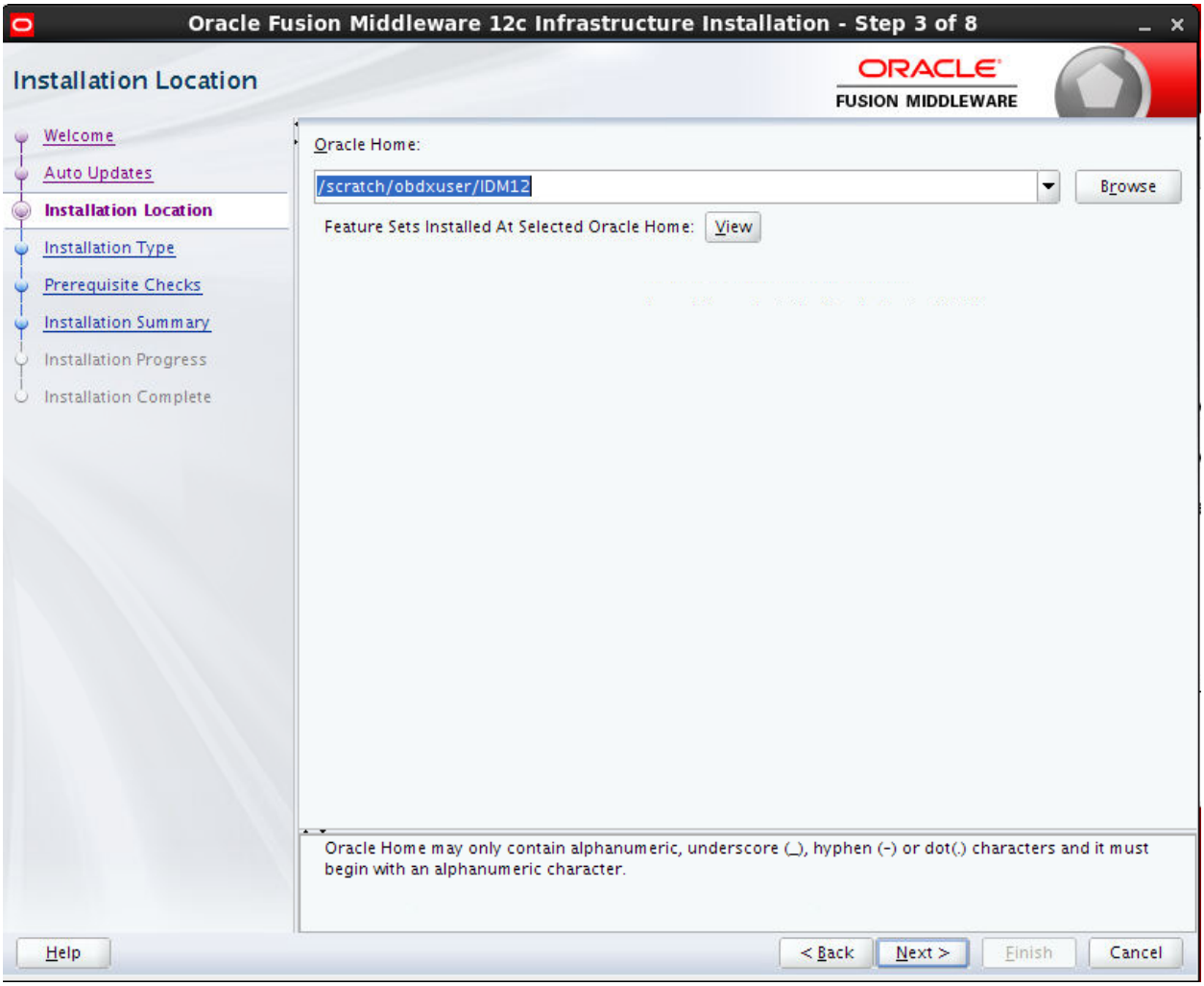
The Welcome screen is displayed each time you start the installer.



Click “Skip Auto Updates” (Kindly follow recommended practices regarding updates depending on the setup requirements or usage.)

Click Next to continue.

Specify Middleware Home Screen

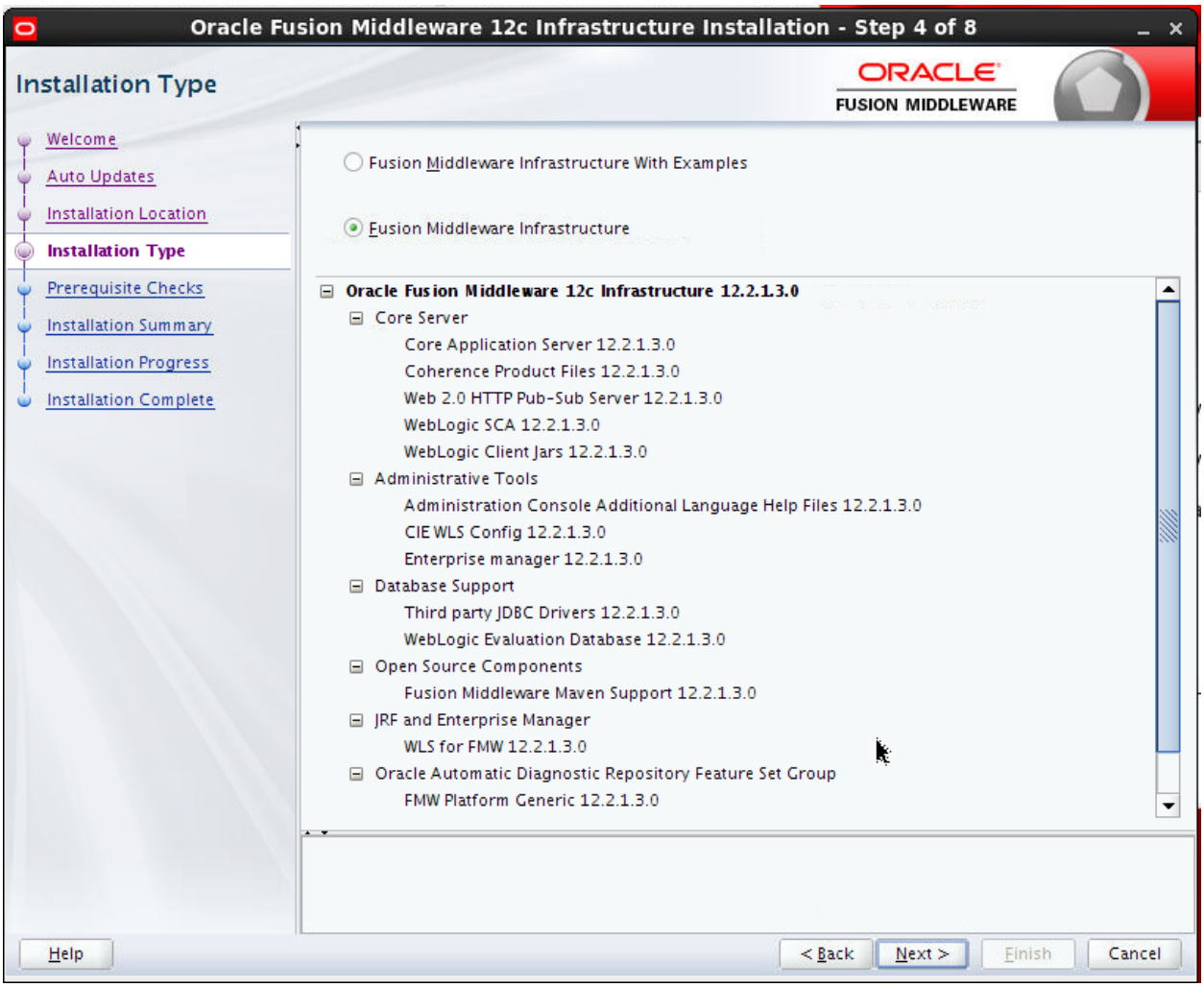


Specify the following installation locations:

- Oracle Middleware Home

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

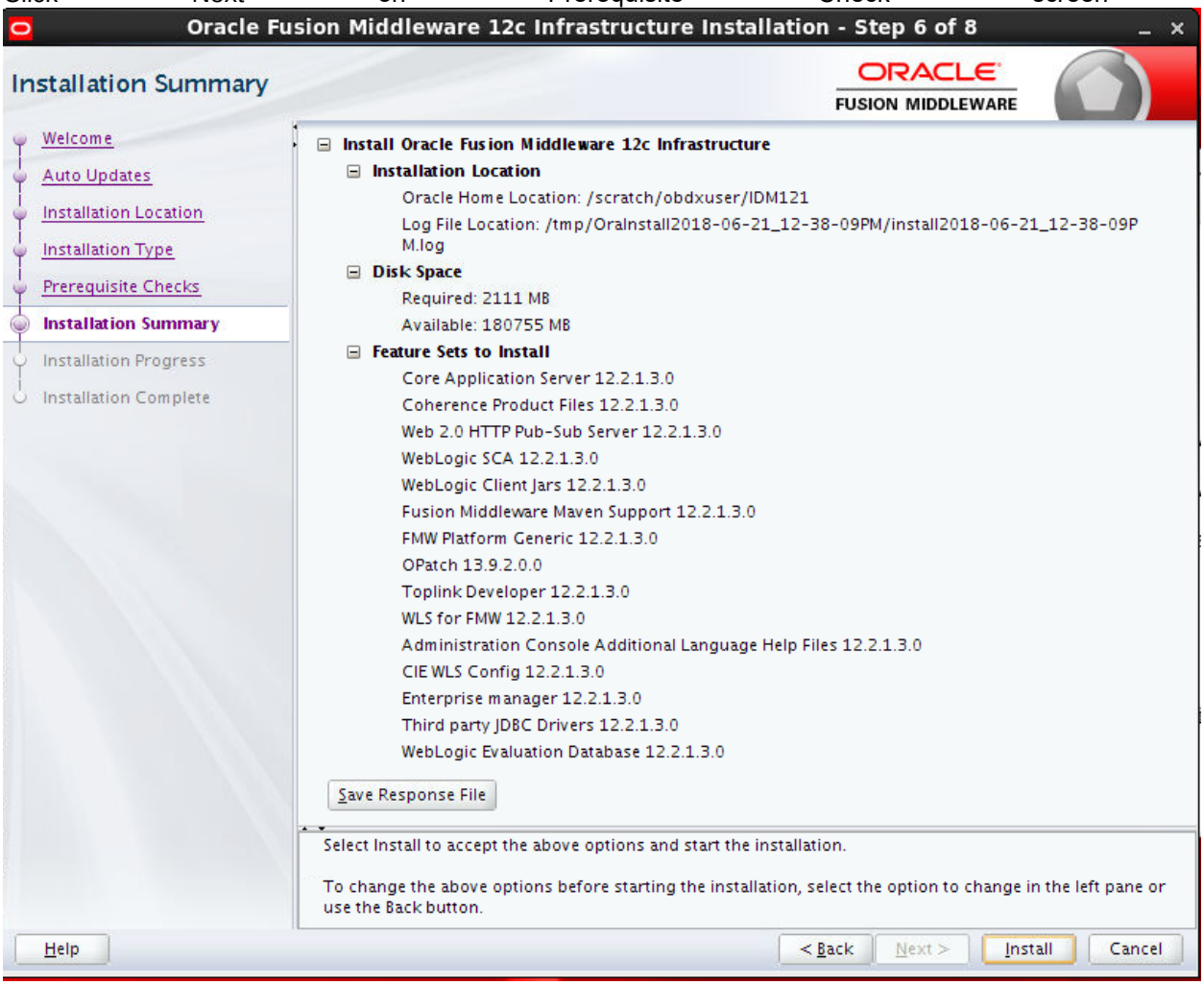
Click Next to continue.



Click next to continue

Select Yes and Click on Next.

Click Next on "Prerequisite Check" screen



Click Install to finish Weblogic Server installation

Installation Progress Screen

Click Done to dismiss the screen.

6.2.2 Verifying the Installation

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

- **Verifying the Installation Directory**

  Check if Oracle Home directory exists or not.

6.3 Installing Oracle Identity and Access Management

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

- Section 6.3.1, "Installing and Configuring Oracle Identity and Access Management"
- Section 6.3.2, "Verifying the Installation"

6.3.1 Installing and Configuring Oracle Identity and Access Management

Obtain IAM installer version 12.2.1.3.0 from the Oracle Fusion Middleware Downloads. Download the zip file's (respective installation files) to a directory, and unpack the downloaded archive that contains the installer.

- Now to start the installer, Start the installer./java –jar ***fmw_12.2.1.3.0_oud.jar***

- 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 will 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.
- Follow the instructions in the below table to configure the inventory directory information. For more help, click on the screen name in the table below, or click the Help button in the GUI.

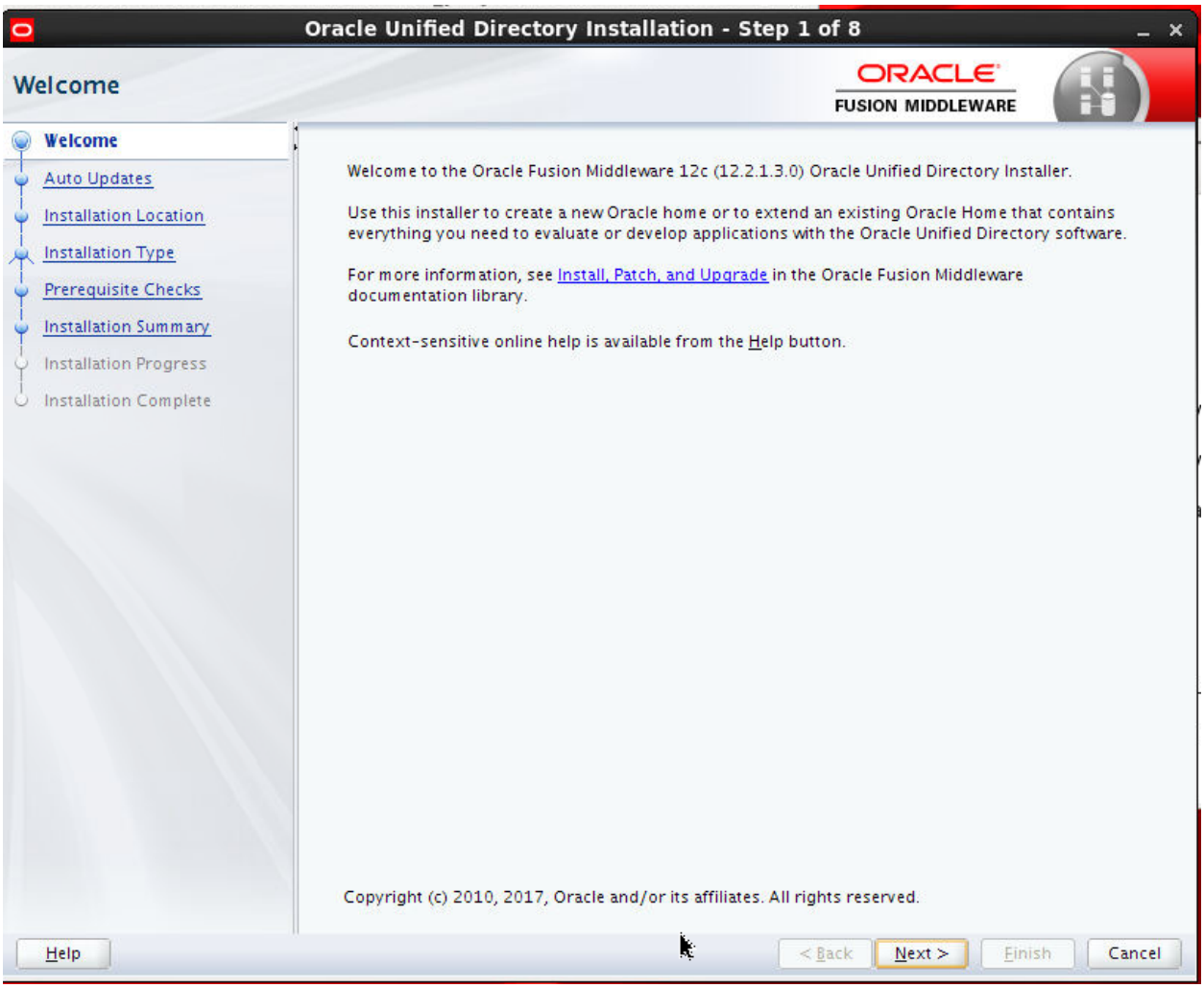
Table: Inventory Directory and Group Screens

Screen	Description and Action Required
Specify Inventory Directory Screen (UNIX Only)	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.
Inventory Location Confirmation Screen (UNIX Only)	Run the createCentralInventory.sh script as root. Click OK to continue.

Now, perform the steps as shown below to install and configure OUD after you start the OUD installer.

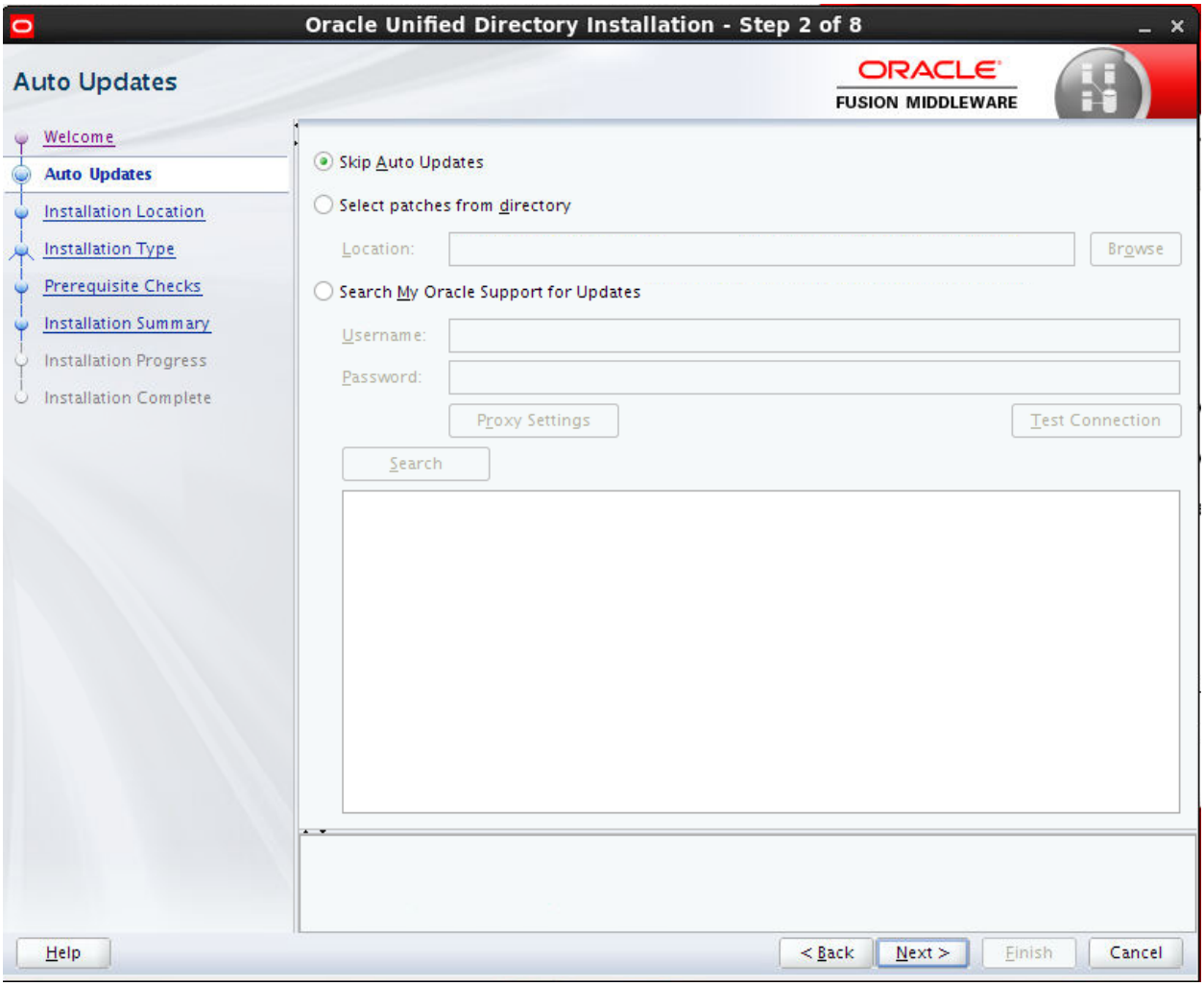
Welcome Screen

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



Click Next to continue.

Install Software Updates Screen



If you want to search for and download software updates from My Oracle Support, then do the following:

Select Search My Oracle Support for Updates.

Enter User name and Password.

Click Test Connection.

If you want to search your local directory for updates, then do the following:

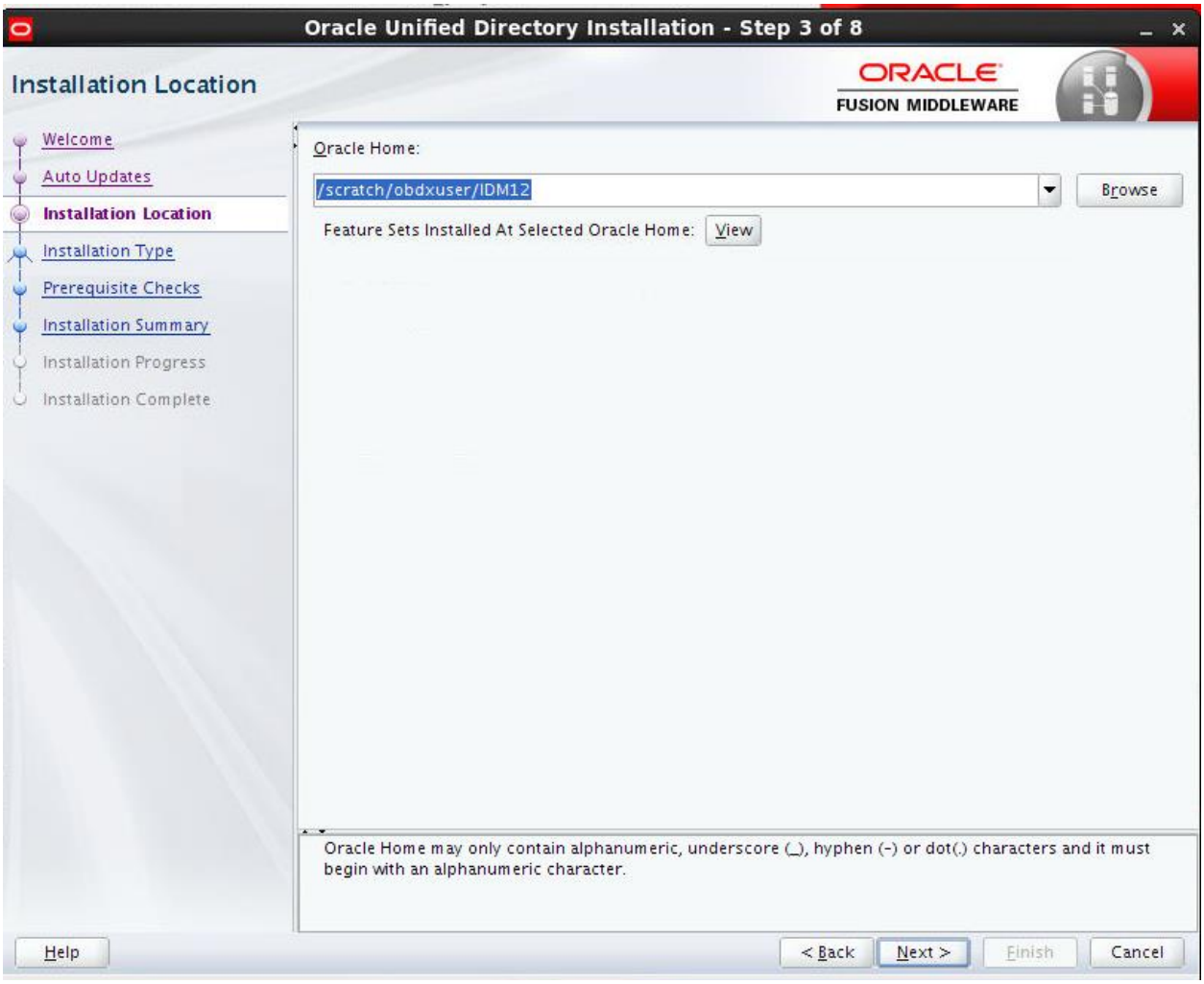
Select Search Local Directory for Updates.

Click Search For Updates.

If you want to skip software updates, then select Skip Software Updates. (Kindly follow recommended practices regarding updates depending on the setup requirements or usage.)

Click Next to continue.

Specify Installation Location Screen



Specify the following installation locations:

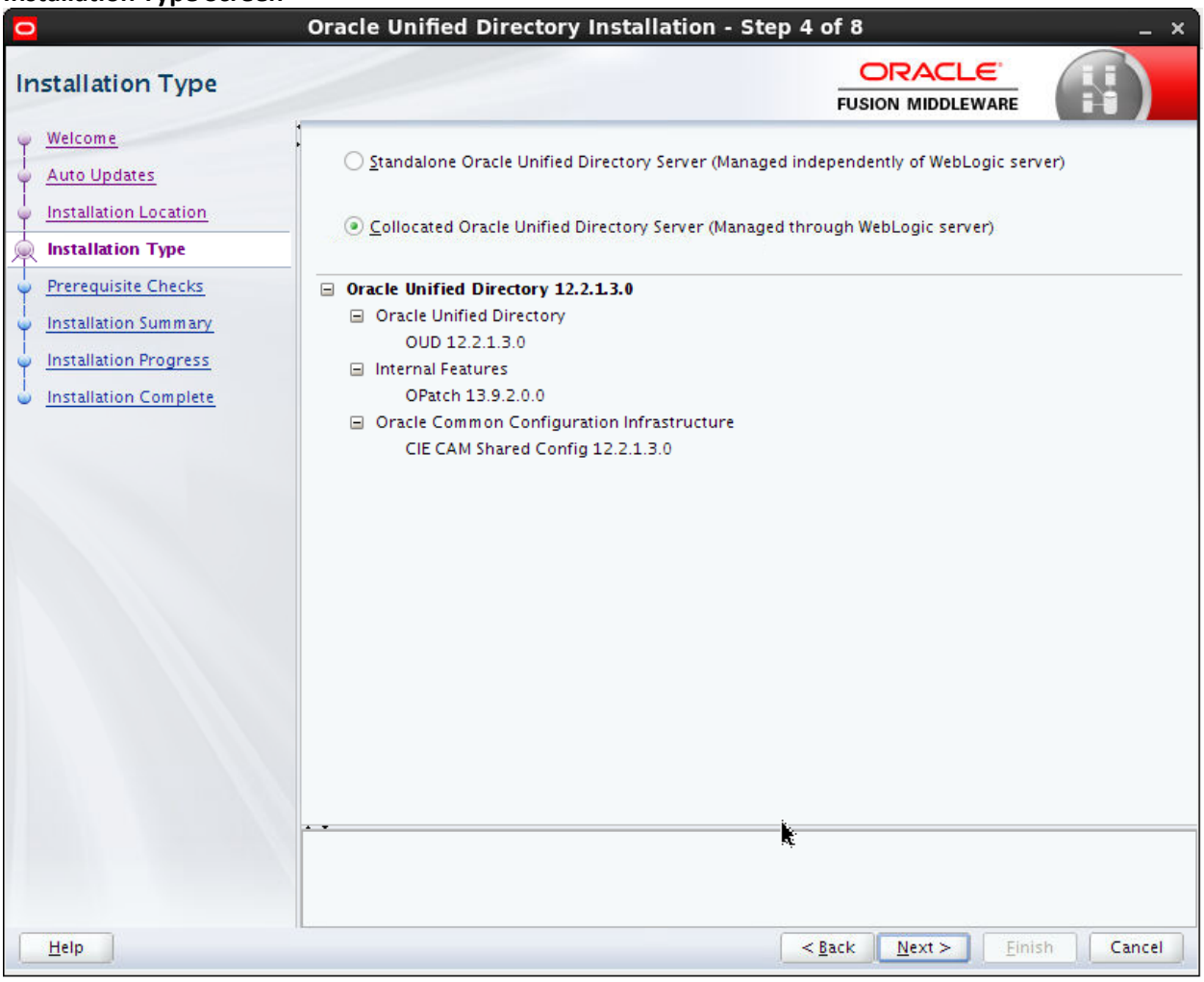
- Oracle Home
  - The absolute path to the directory where WebLogic Server was installed.

Oracle Home directory is where your products will be installed. All software binaries will reside in this directory, and no runtime process can write to this directory.

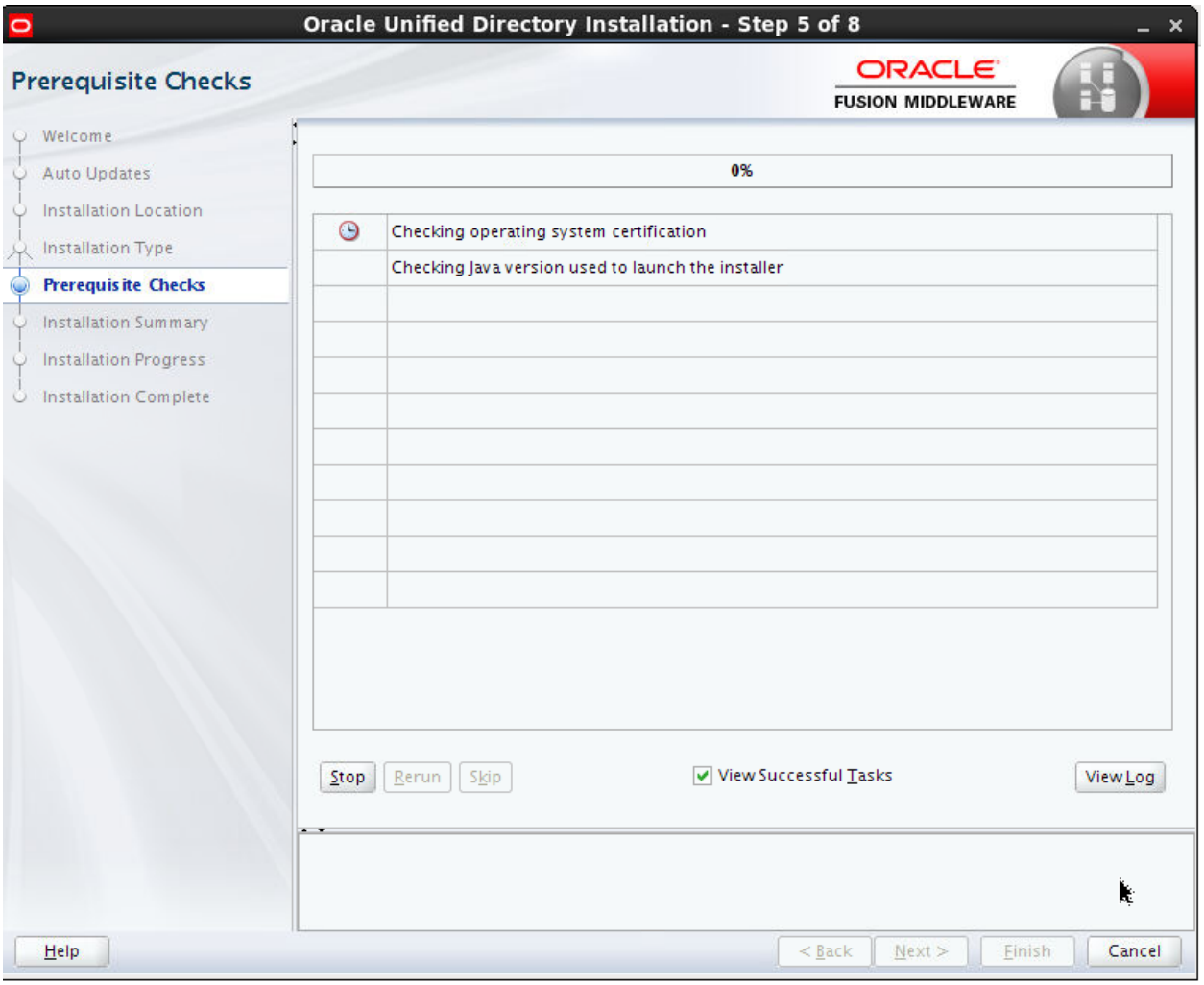
Note: This installation directory will be referred to as IDM_ORACLE_HOME throughout the remainder of this document. If you are performing an installation on a Windows operating system, be sure that your directory paths are valid, and do not contain double backslashes (\\).

Click Next to continue.

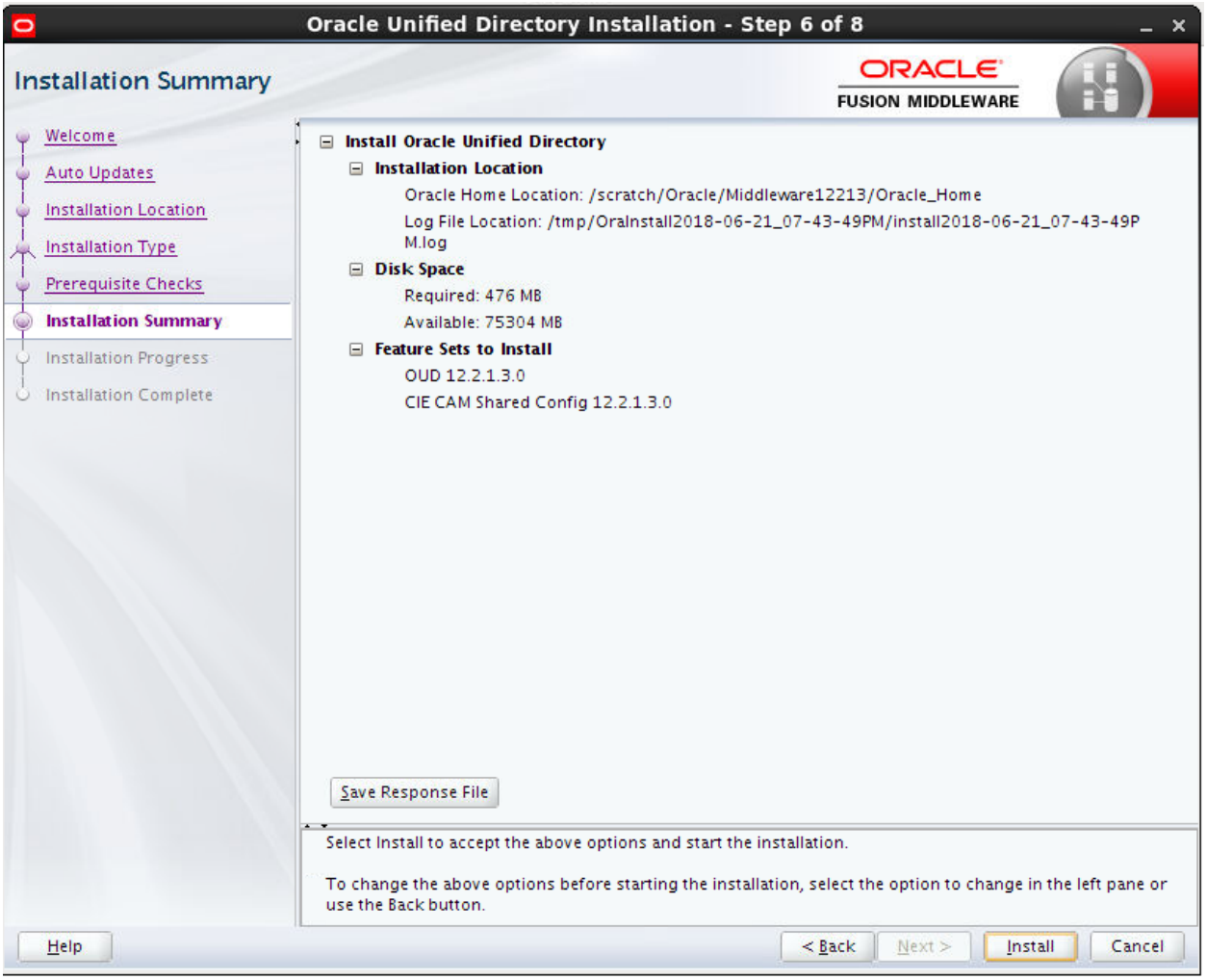
Installation Type Screen



Select Collocated Oracle Unified Directory Server > Next



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.

Click Install.

Then screen shows the progress of the installation and exit after installation is completed.

Installation Progress Screen

Installation Complete Screen

6.3.2 Verifying the Installation

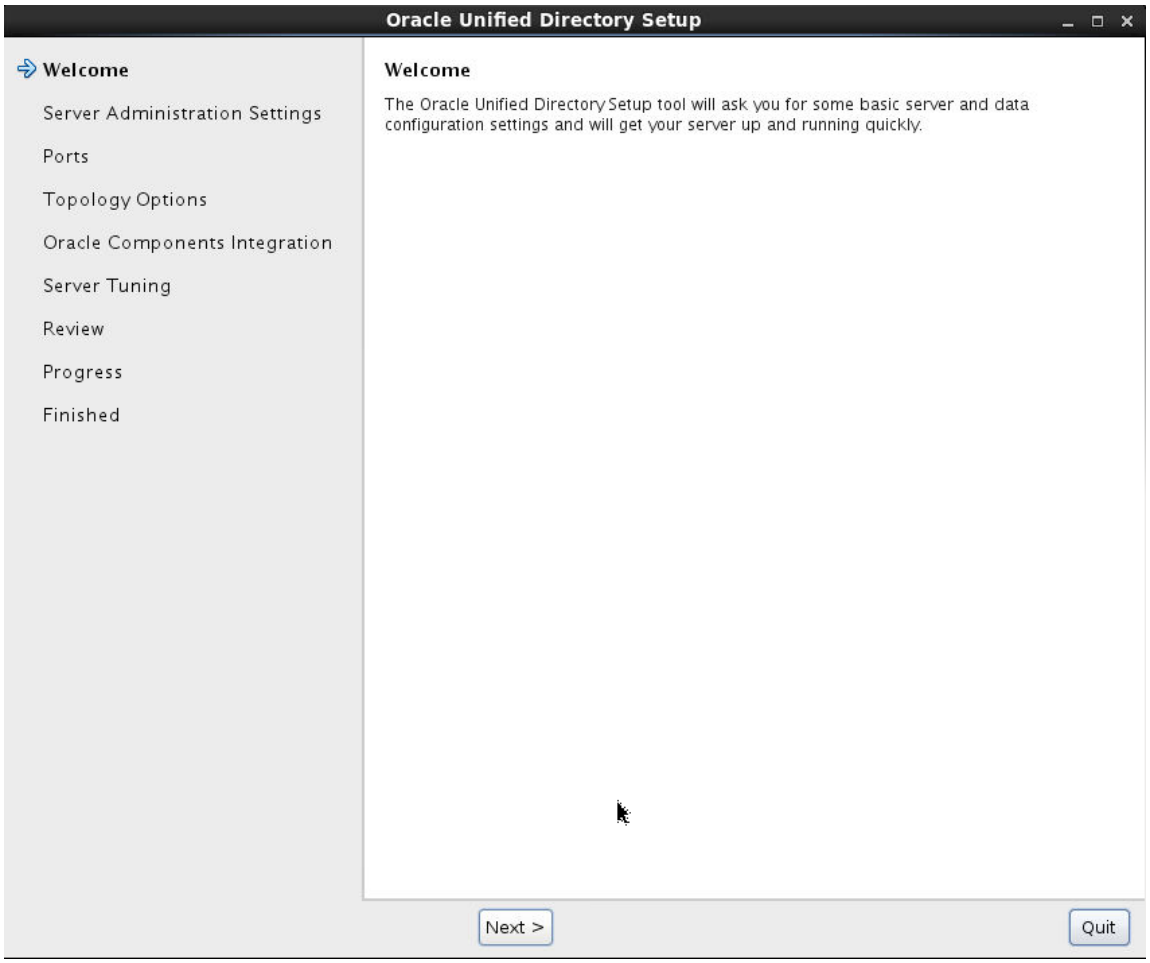
You can perform any combination of the following tasks to verify that your installation was successful:

- **Verifying the Installation Logs:** Check for the presence of installation log files in logs directory inside your Oracle Inventory directory.

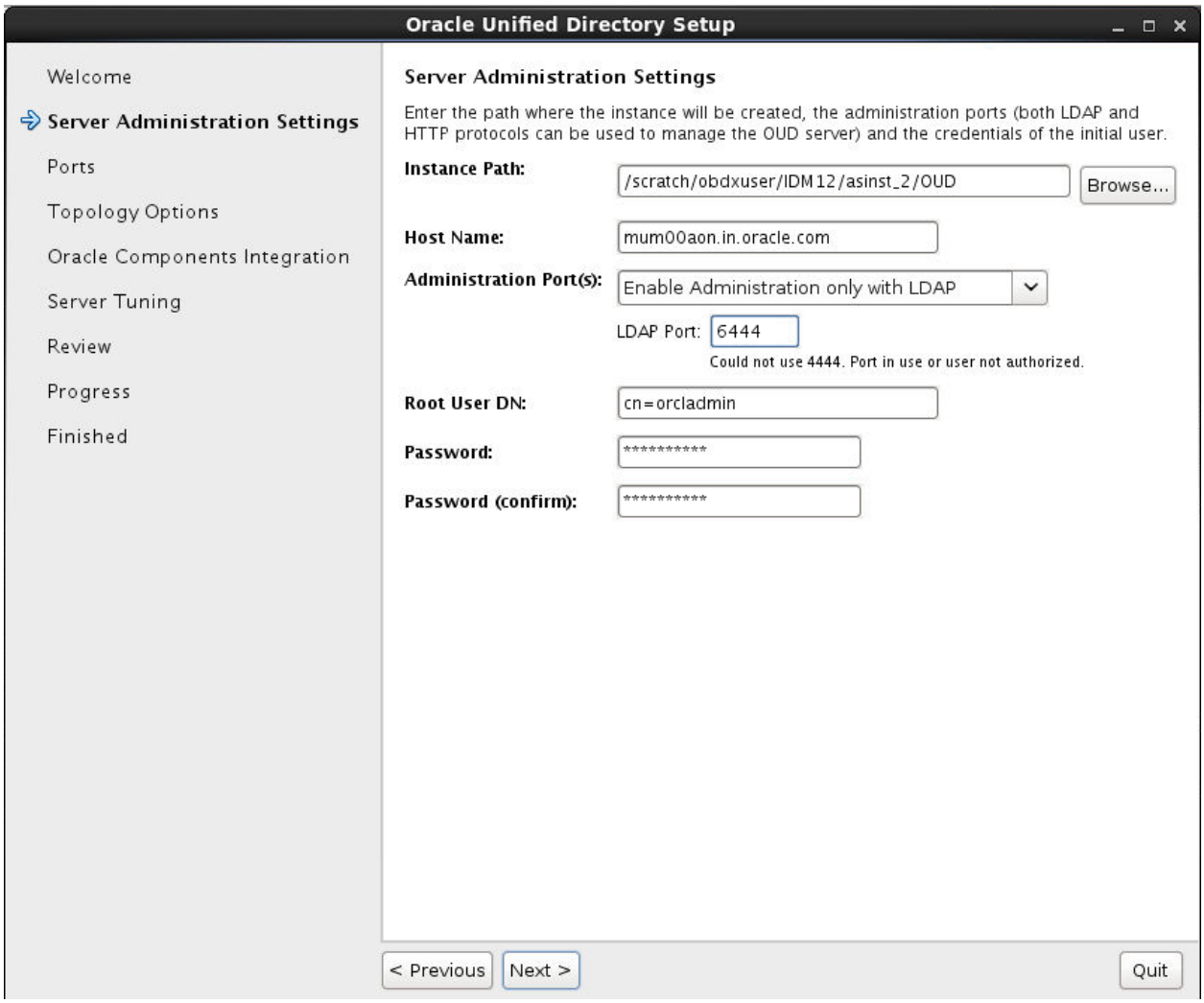
Verifying the IDM Home Directory: Check for the presence of IDM Home directory. Configuring OUD

From <ORACLE_HOME>/oud start below command

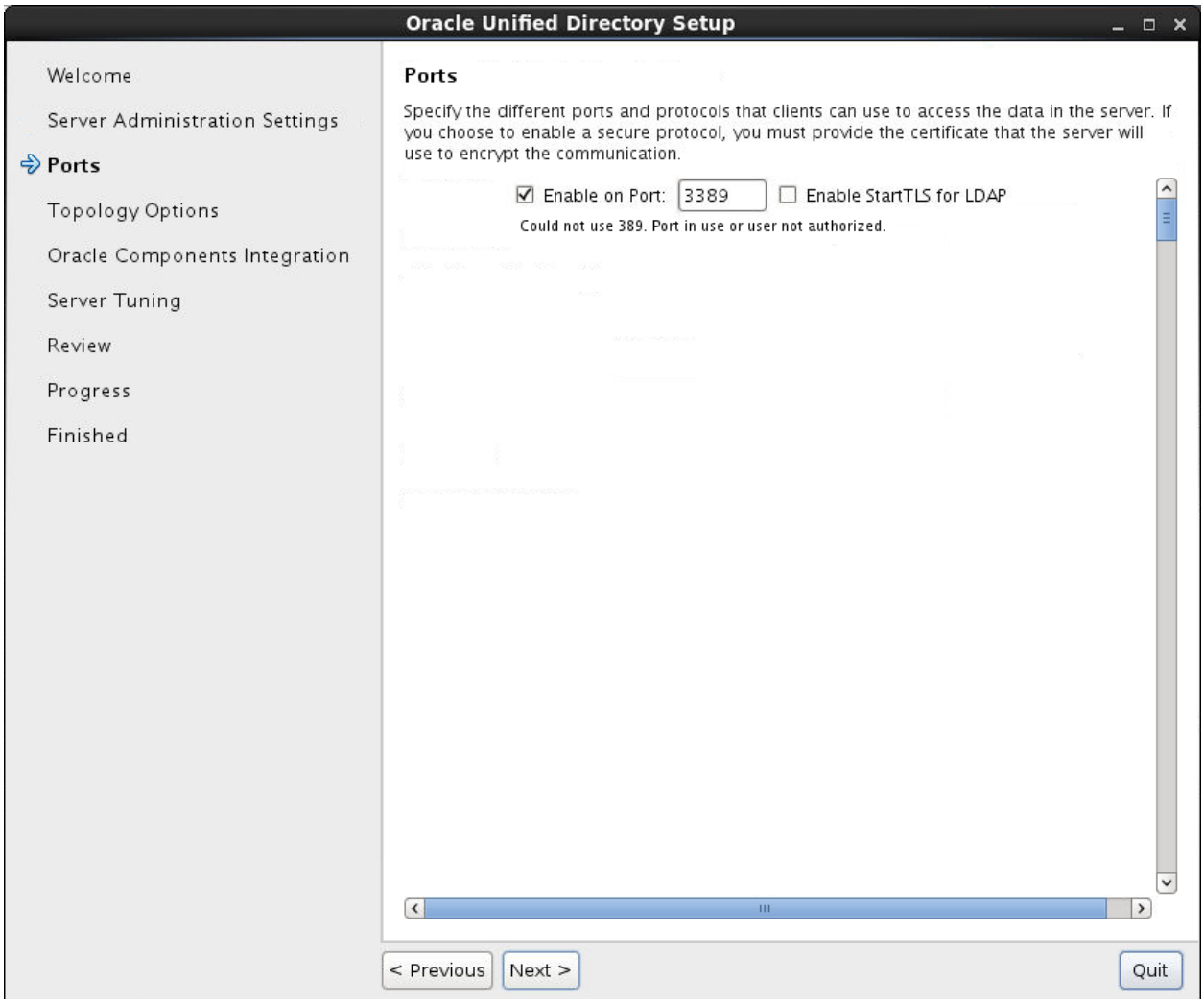
./oud-setup


Oracle Unified Directory Setup
Welcome
Server Administration Settings
Ports
Topology Options
Oracle Components Integration
Server Tuning
Review
Progress
Finished
Welcome
The Oracle Unified Directory Setup tool will ask you for some basic server and data configuration settings and will get your server up and running quickly.
Next >
Quit

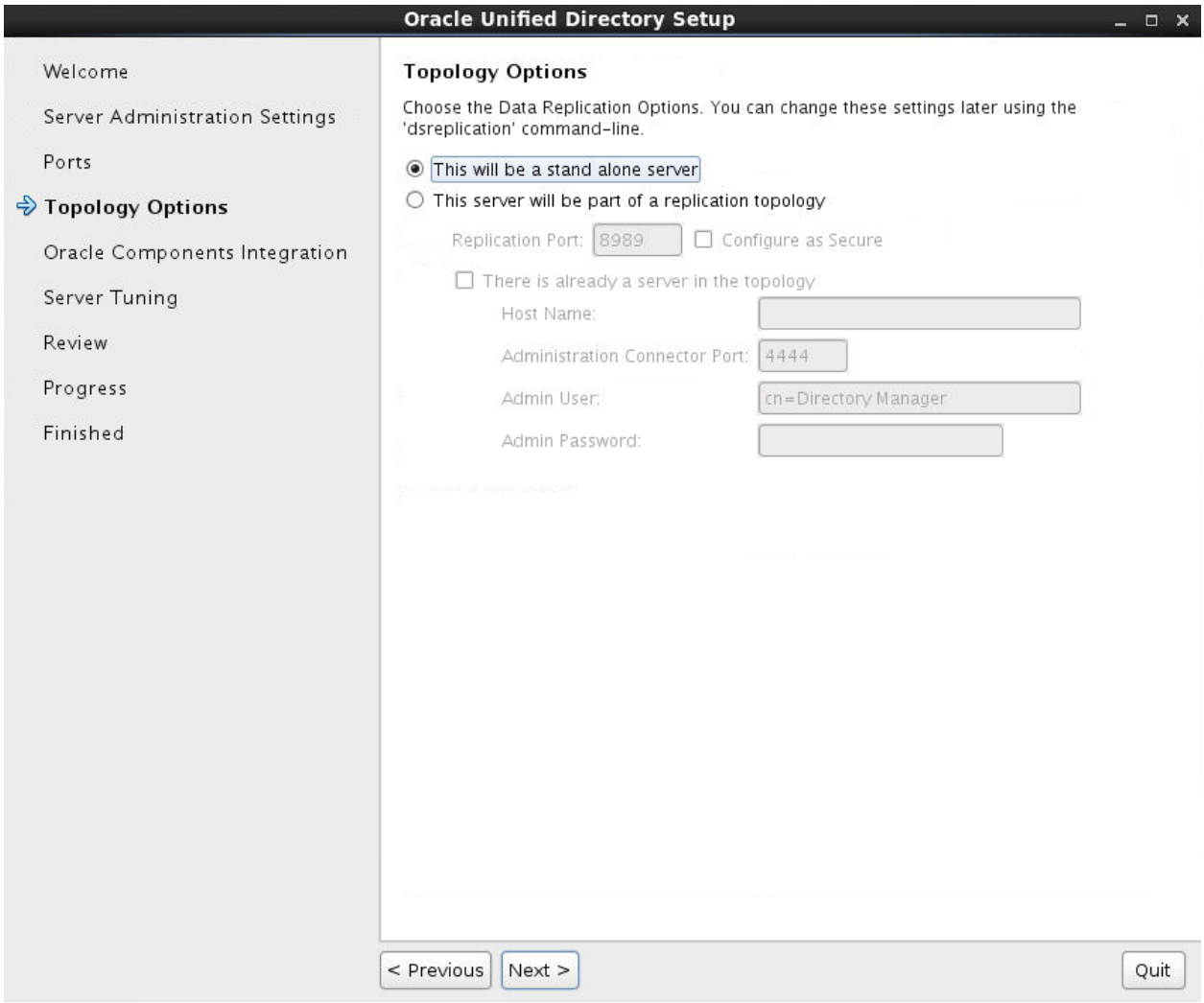
Click Next



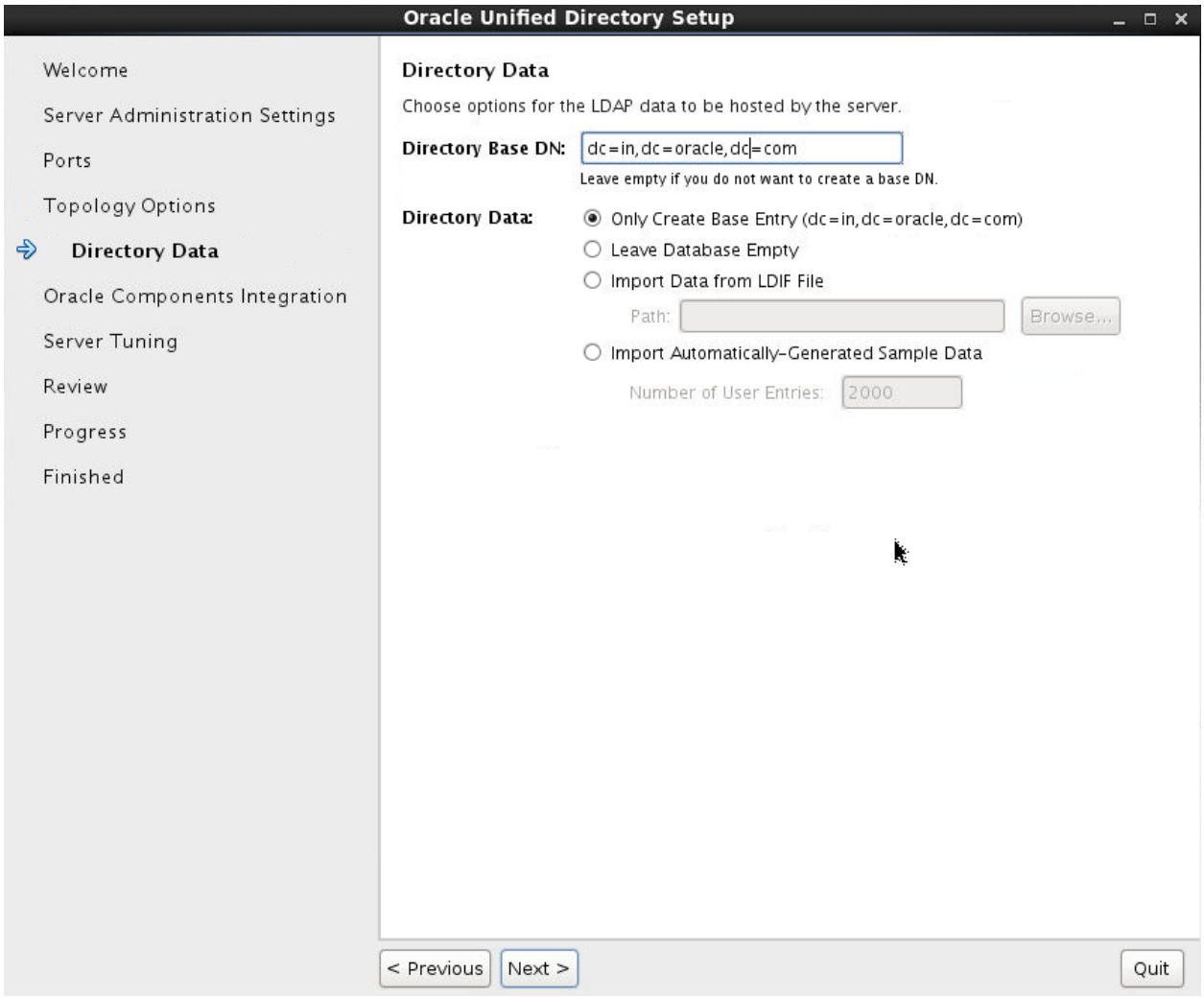
Enter the details and OUD password > Next



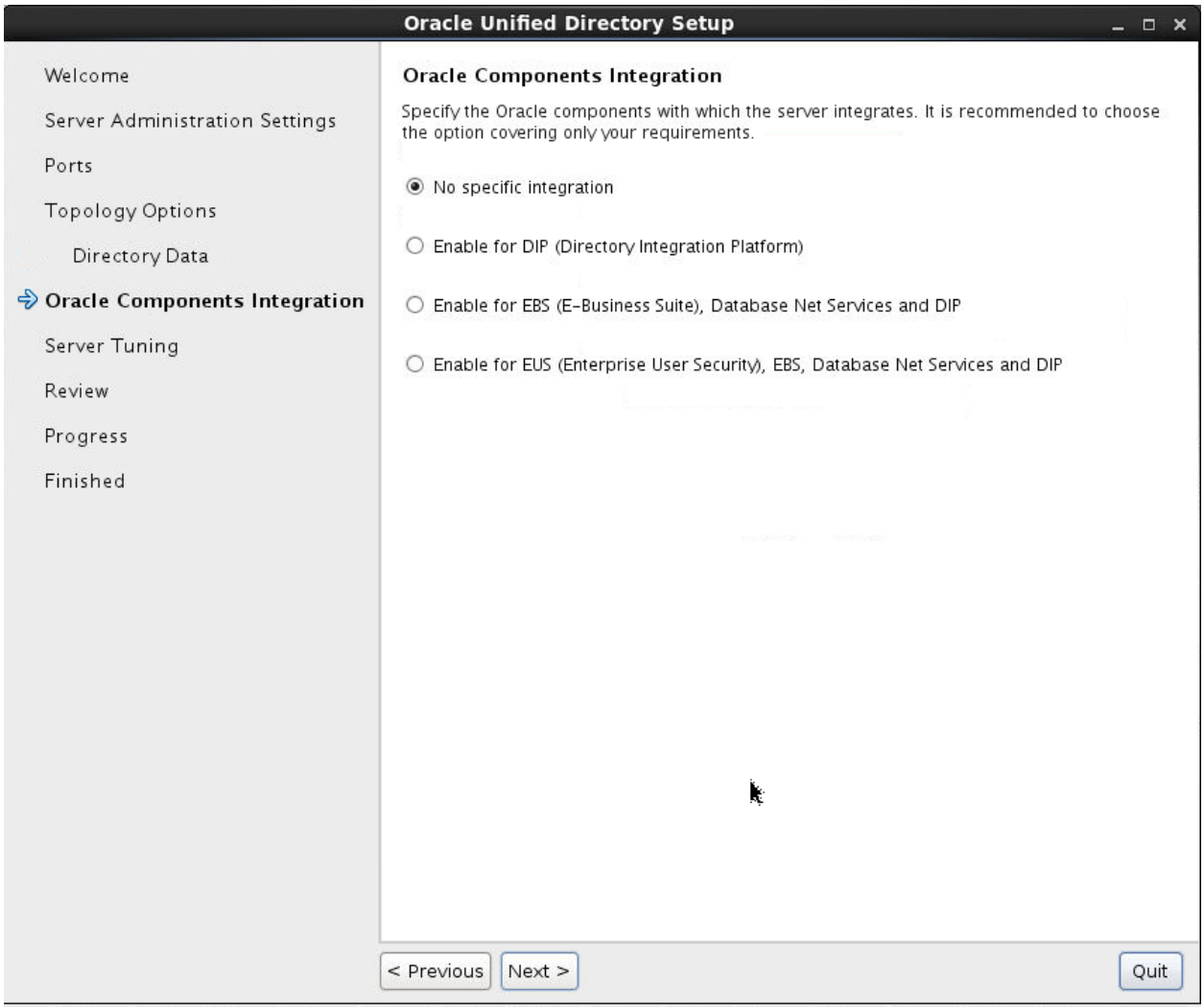
Enter the LDAP Port > Next



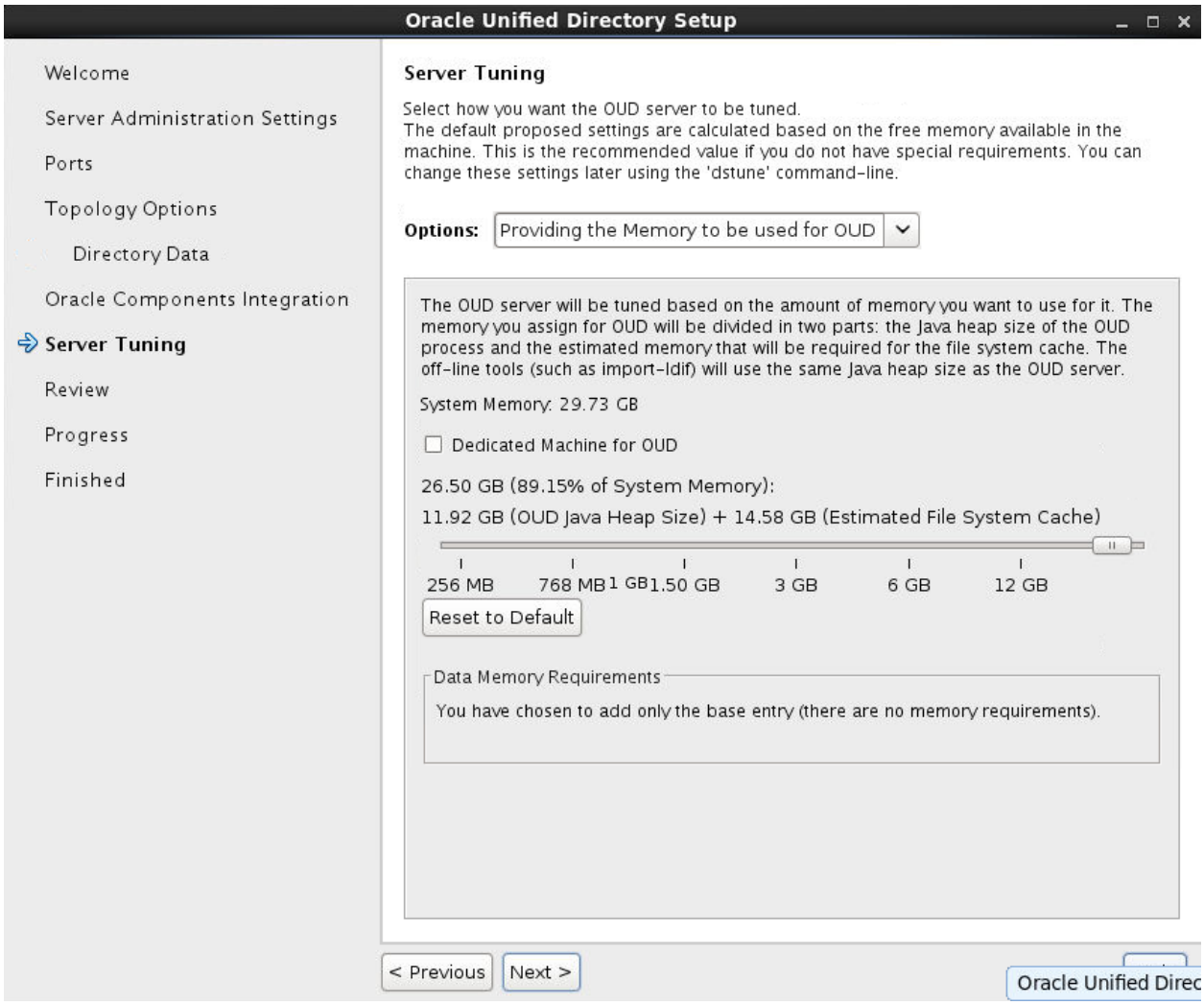
Select standalone server > Next



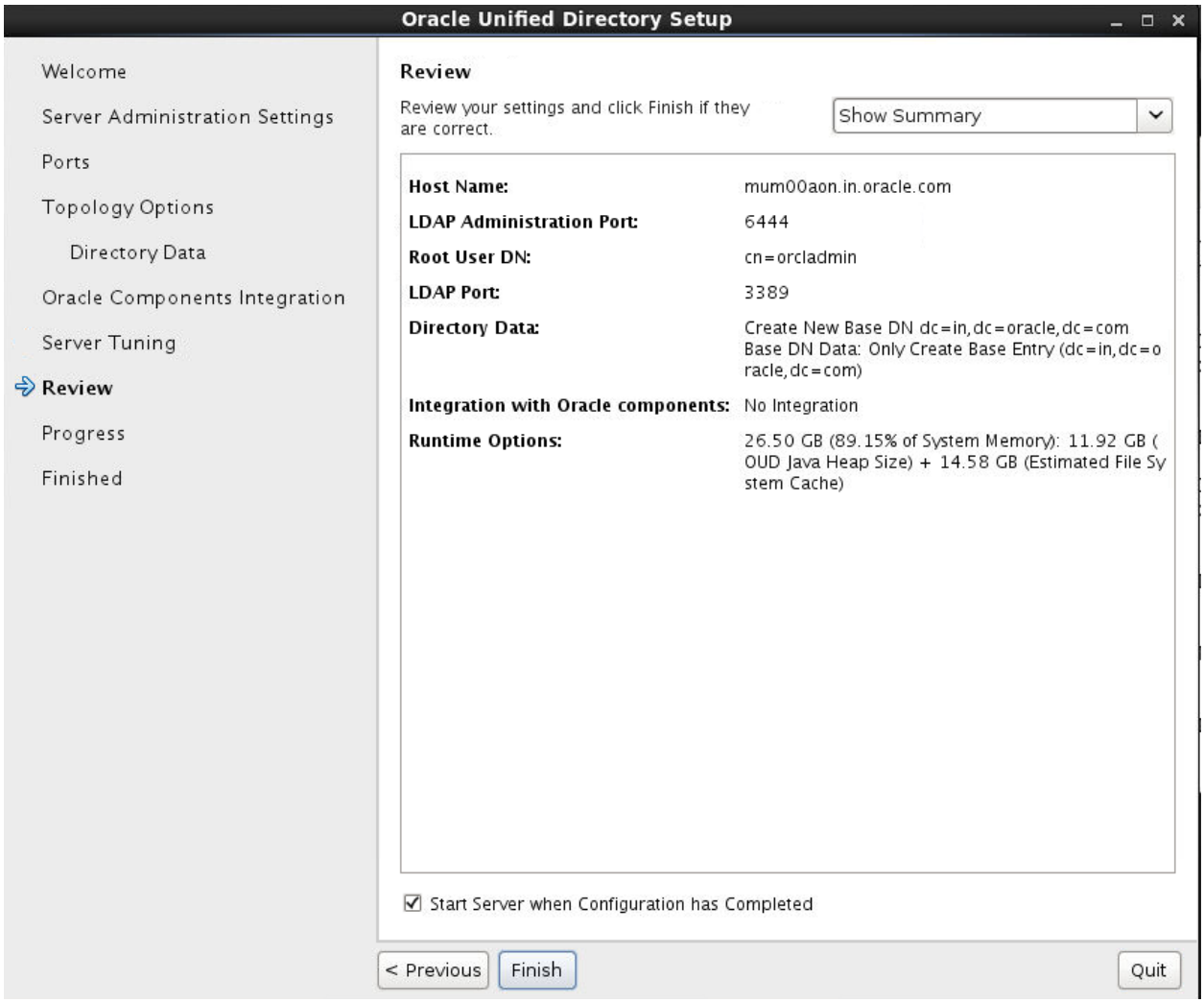
Add base DN > Next


Oracle Unified Directory Setup
Welcome
Server Administration Settings
Ports
Topology Options
Directory Data
Oracle Components Integration
Server Tuning
Review
Progress
Finished
Oracle Components Integration
Specify the Oracle components with which the server integrates. It is recommended to choose the option covering only your requirements.
No specific integration
Enable for DIP (Directory Integration Platform)
Enable for EBS (E-Business Suite), Database Net Services and DIP
Enable for EUS (Enterprise User Security), EBS, Database Net Services and DIP
< Previous
Next >
Quit

Next >



Add sizing parameters > Next



Click Finish to complete the configuration

Home

7. Oracle Access Management Installation and Configuration

Oracle Access Management includes components like Oracle Access Manager, Oracle Access Management Security Token Service, Oracle Access Management Identity Federation, Oracle Access Management Mobile and Social.

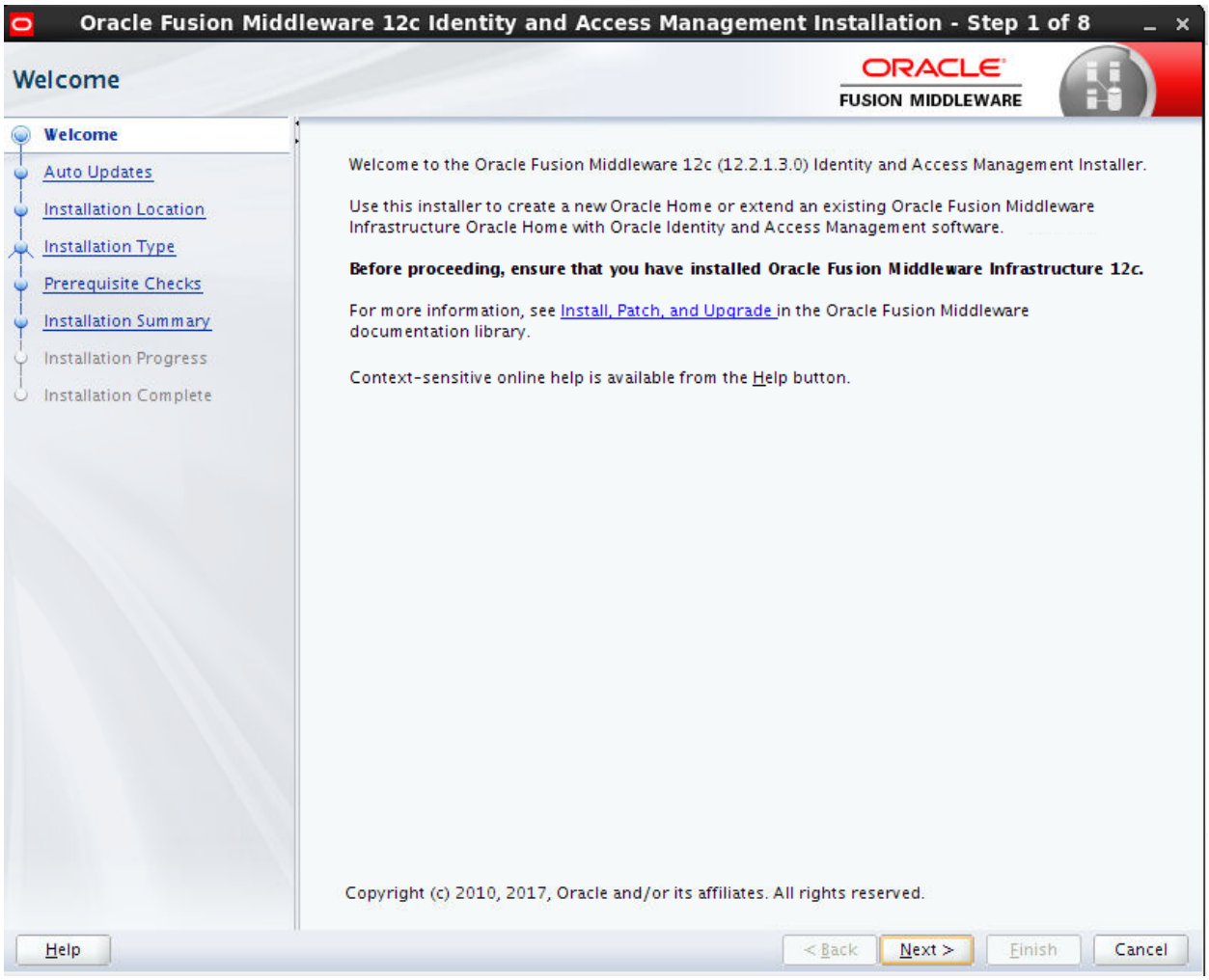
Following topics in this chapter provides detailed information on installing and configuring Oracle Access Management after installing Oracle Identity and Access Management:

- Section 7.1, "Creating Weblogic Domain for Oracle Access Manager"
- Section 7.2, "Post-Installation Tasks"
- Section 7.3, “Verifying the Installation”

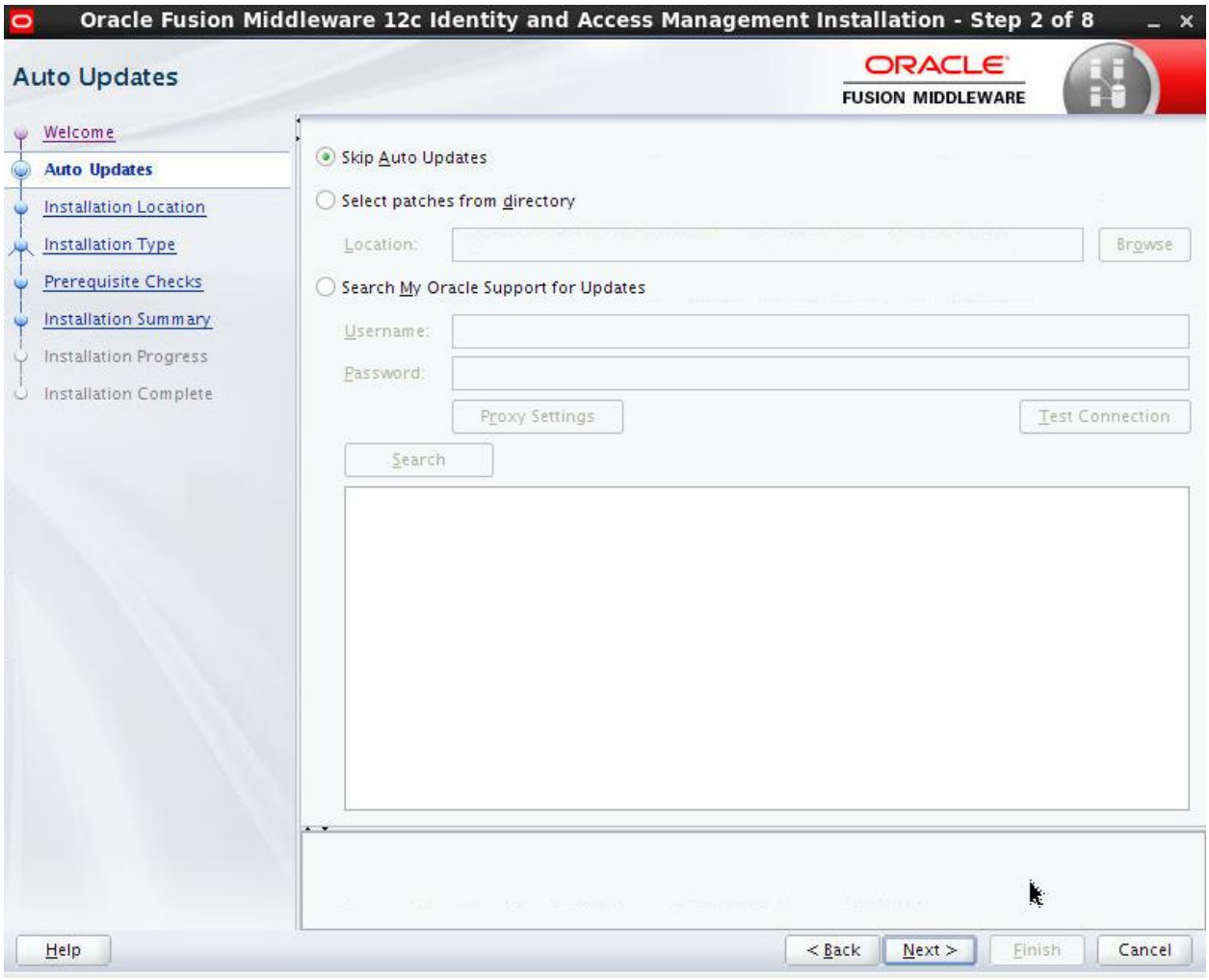
7.1 Installing Oracle Access Manager

- Before you start configuring Oracle Access Management, note that the **IDM HOME** is the path provided during IDM installation and is used to refer to the Oracle home directory.
- Run below command to start installation

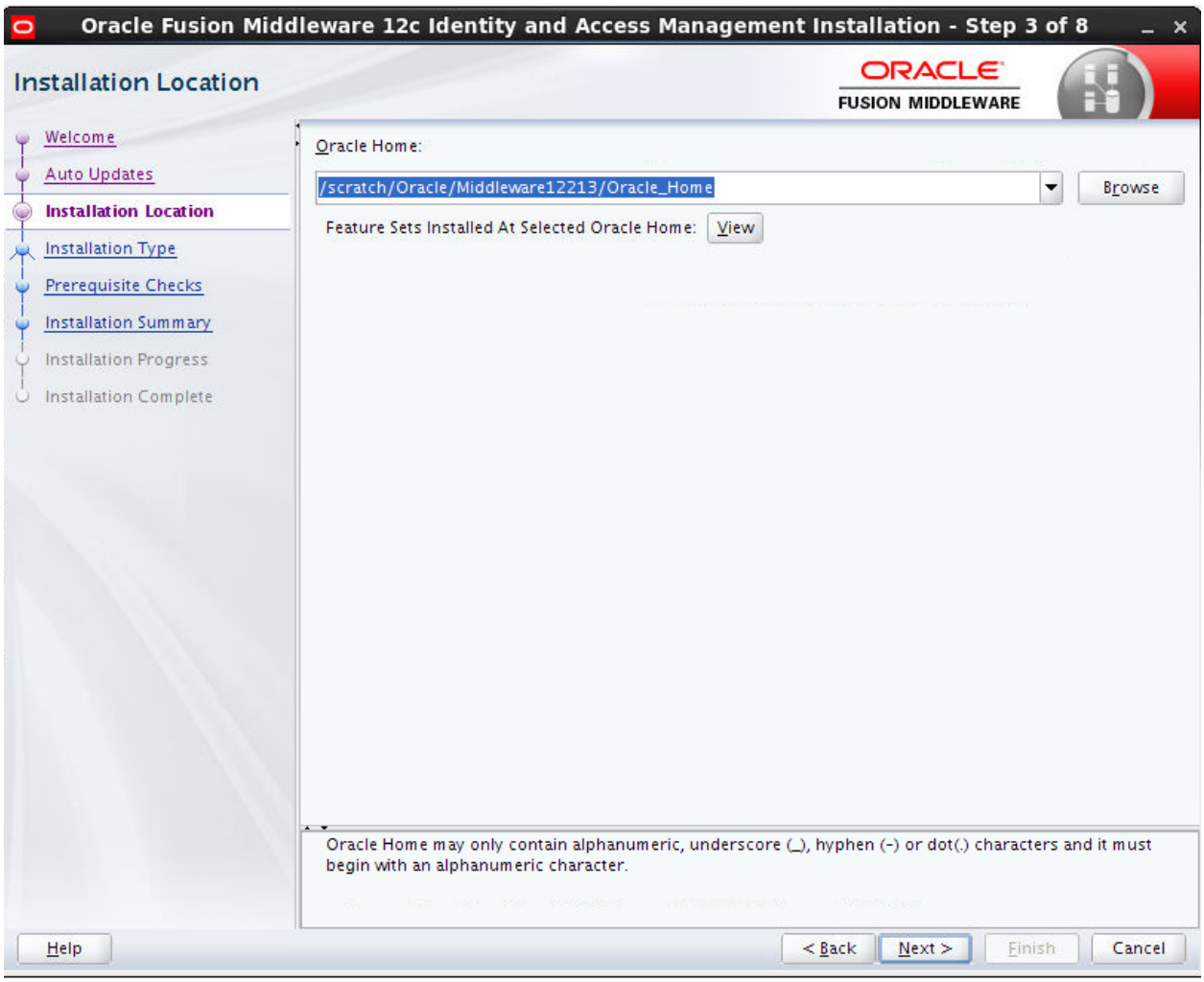
  java –jar fmw_12.2.1.3.0_idm.jar


Oracle Fusion Middleware 12c Identity and Access Management Installation - Step 1 of 8
Welcome
ORACLE
FUSION MIDDLEWARE
Welcome
Auto Updates
Installation Location
Installation Type
Prerequisite Checks
Installation Summary
Installation Progress
Installation Complete
Welcome to the Oracle Fusion Middleware 12c (12.2.1.3.0) Identity and Access Management Installer.
Use this installer to create a new Oracle Home or extend an existing Oracle Fusion Middleware Infrastructure Oracle Home with Oracle Identity and Access Management software.
Before proceeding, ensure that you have installed Oracle Fusion Middleware Infrastructure 12c.
For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware documentation library.
Context-sensitive online help is available from the Help button.
Copyright (c) 2010, 2017, Oracle and/or its affiliates. All rights reserved.
Help
< Back
Next >
Finish
Cancel

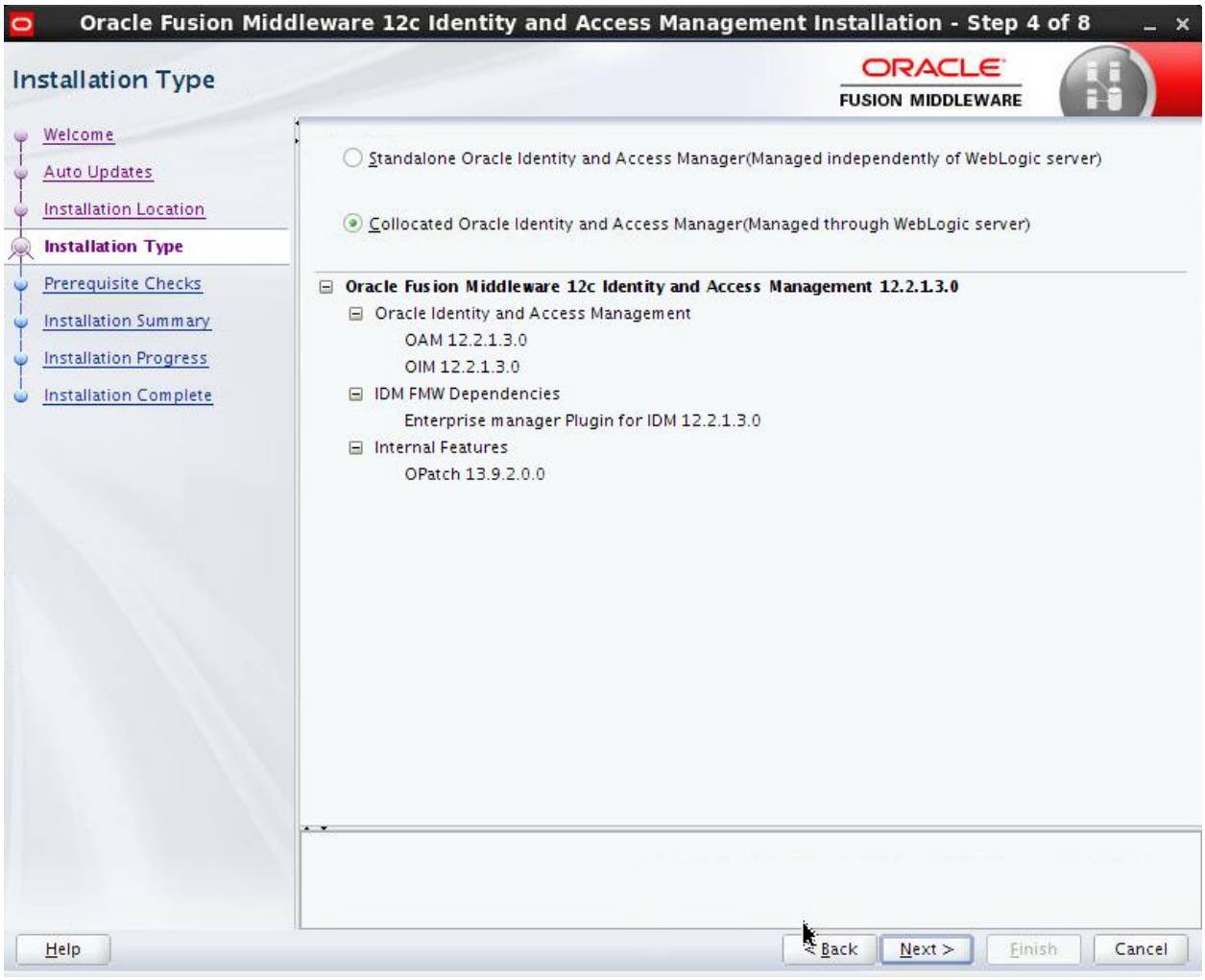
Next >


Oracle Fusion Middleware 12c Identity and Access Management Installation - Step 2 of 8
Auto Updates
ORACLE
FUSION MIDDLEWARE
Welcome
Auto Updates
Installation Location
Installation Type
Prerequisite Checks
Installation Summary
Installation Progress
Installation Complete
Skip Auto Updates
Select patches from directory
Location:
Browse
Search My Oracle Support for Updates
Username:
Password:
Proxy Settings
Test Connection
Search
Help
< Back
Next >
Finish
Cancel

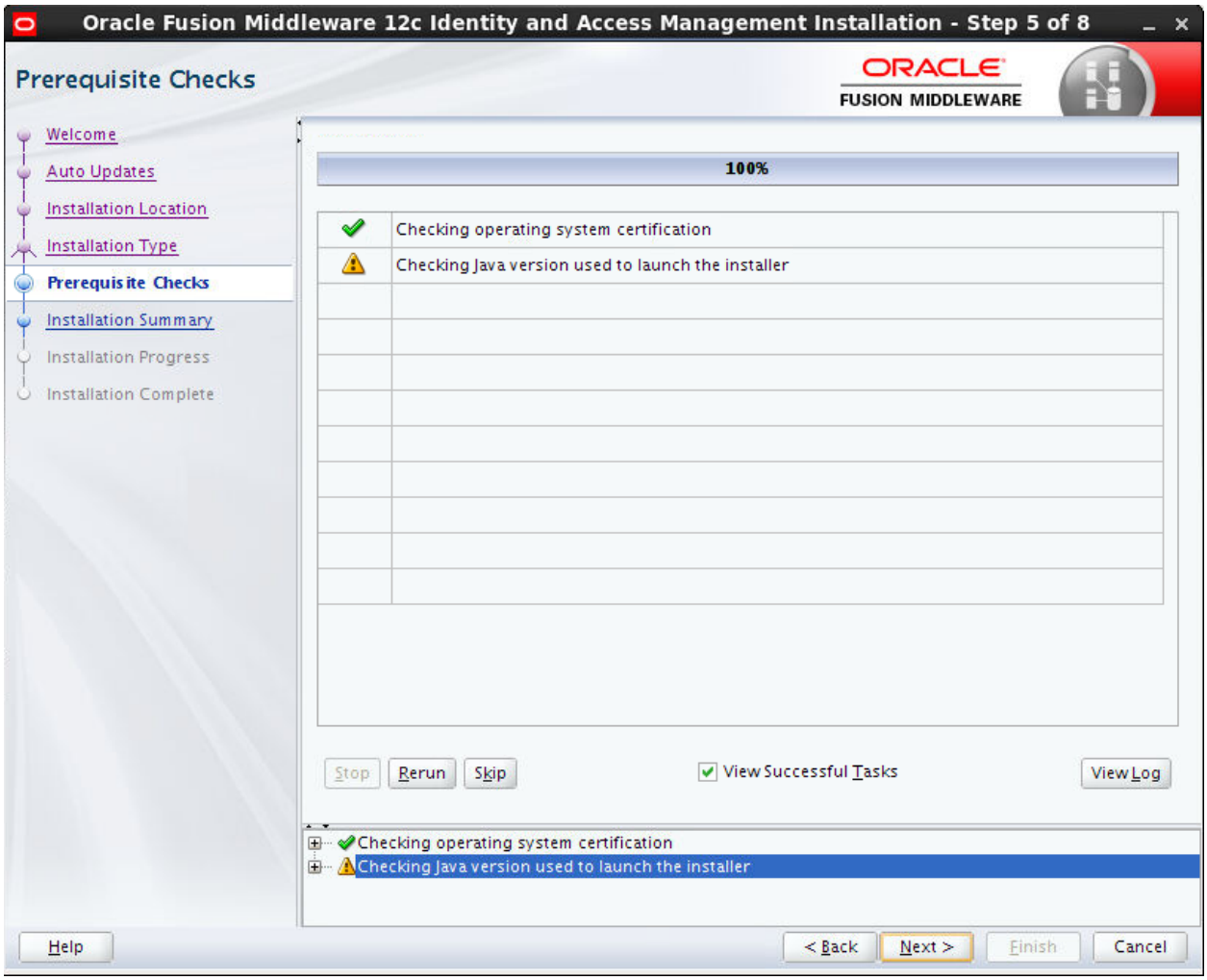
Next >



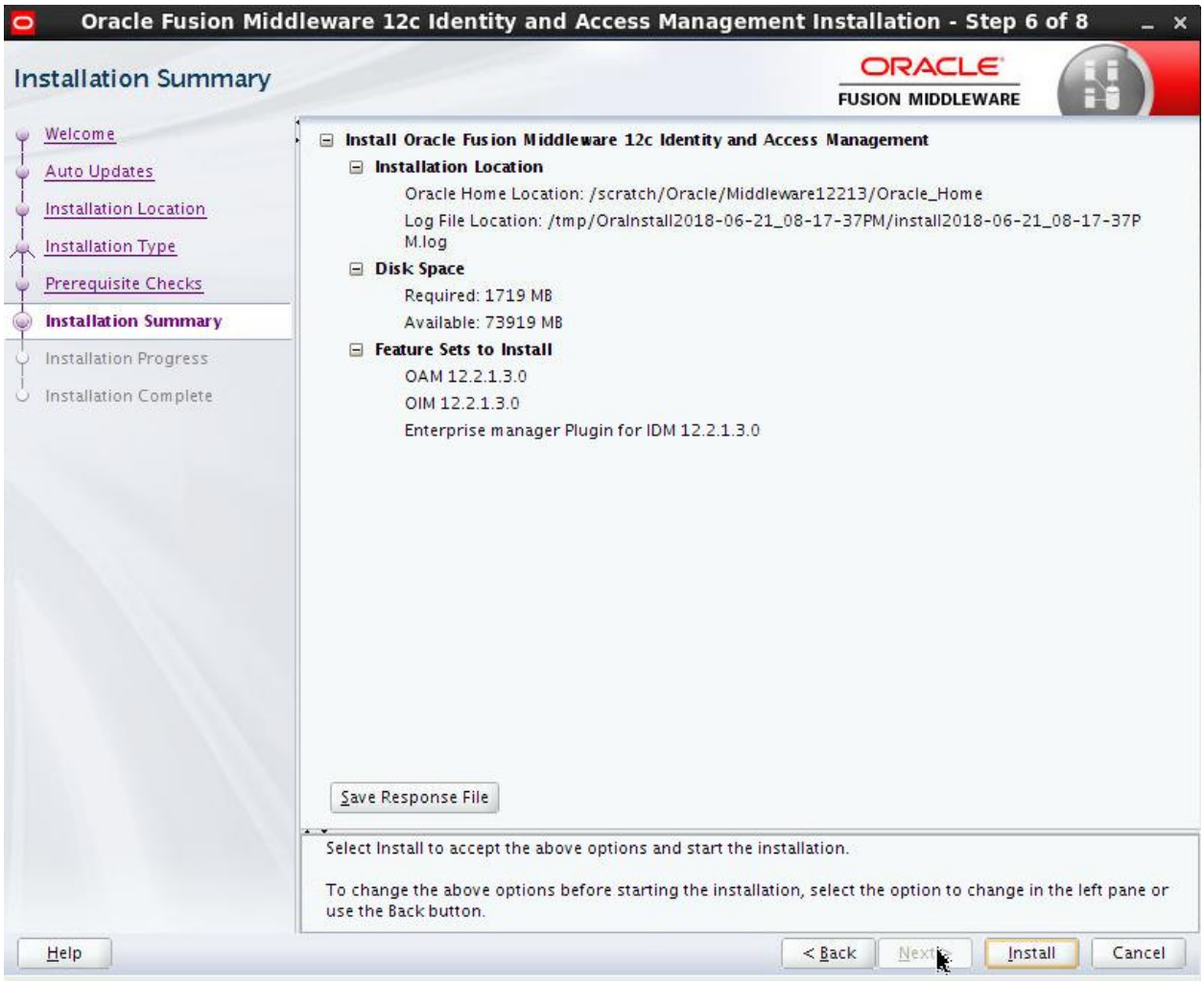
Select the same Weblogic as in Sec 6.2.1


Oracle Fusion Middleware 12c Identity and Access Management Installation - Step 4 of 8
Installation Type
ORACLE
FUSION MIDDLEWARE
Welcome
Auto Updates
Installation Location
Installation Type
Prerequisite Checks
Installation Summary
Installation Progress
Installation Complete
Standalone Oracle Identity and Access Manager(Managed independently of WebLogic server)
Collocated Oracle Identity and Access Manager(Managed through WebLogic server)
Oracle Fusion Middleware 12c Identity and Access Management 12.2.1.3.0
Oracle Identity and Access Management
OAM 12.2.1.3.0
OIM 12.2.1.3.0
IDM FMW Dependencies
Enterprise manager Plugin for IDM 12.2.1.3.0
Internal Features
OPatch 13.9.2.0.0
Help
Back
Next >
Finish
Cancel

Next >


Oracle Fusion Middleware 12c Identity and Access Management Installation - Step 5 of 8
Prerequisite Checks
ORACLE
FUSION MIDDLEWARE
Welcome
Auto Updates
Installation Location
Installation Type
Prerequisite Checks
Installation Summary
Installation Progress
Installation Complete
100%
Checking operating system certification
Checking Java version used to launch the installer
Stop
Rerun
Skip
View Successful Tasks
View Log
Checking operating system certification
Checking Java version used to launch the installer
Help
< Back
Next >
Finish
Cancel

Next >



Click Install to complete the installation

Running the repository creation utility (RCU)

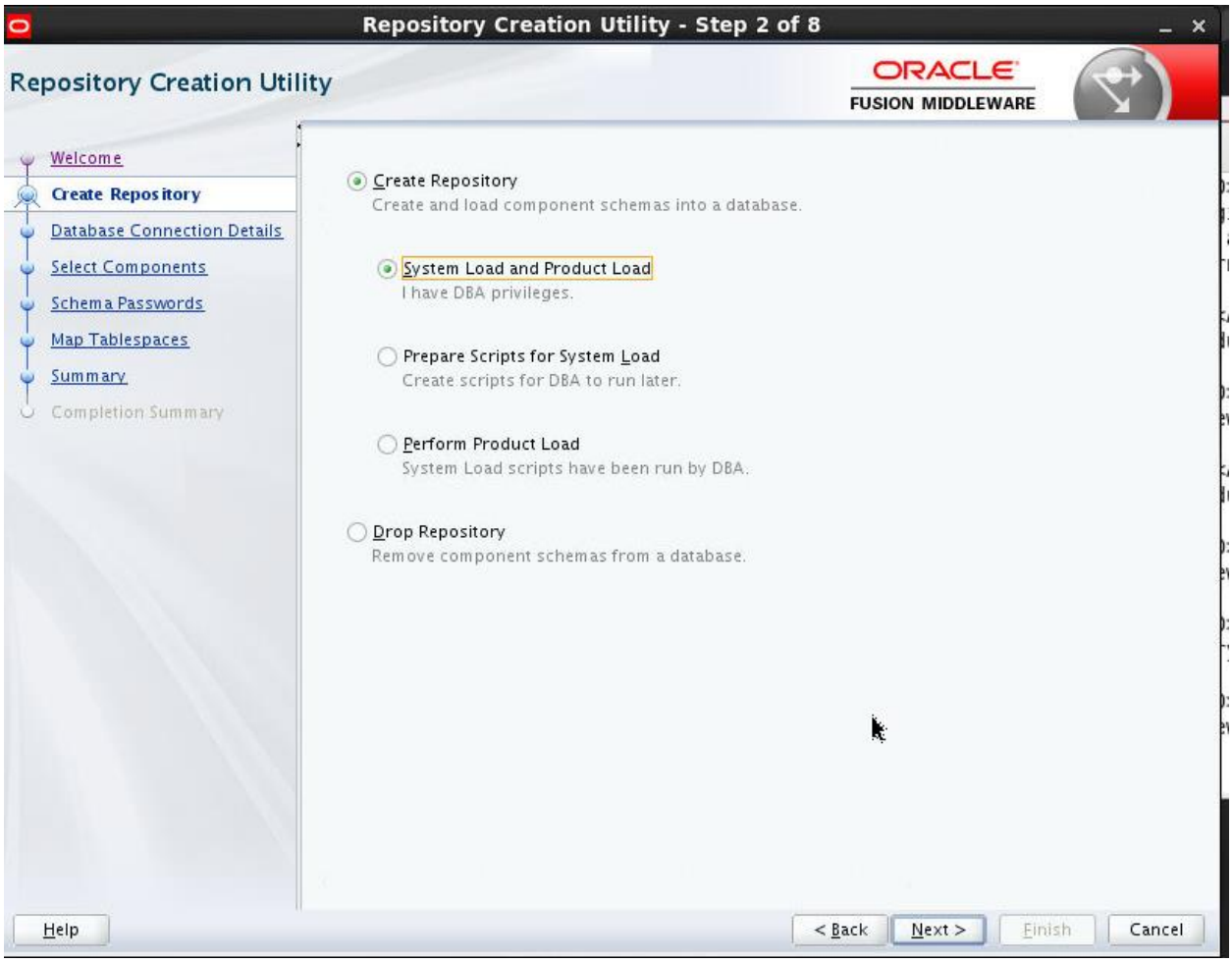
Run below command

<ORACLE_HOME>/oracle_common/bin

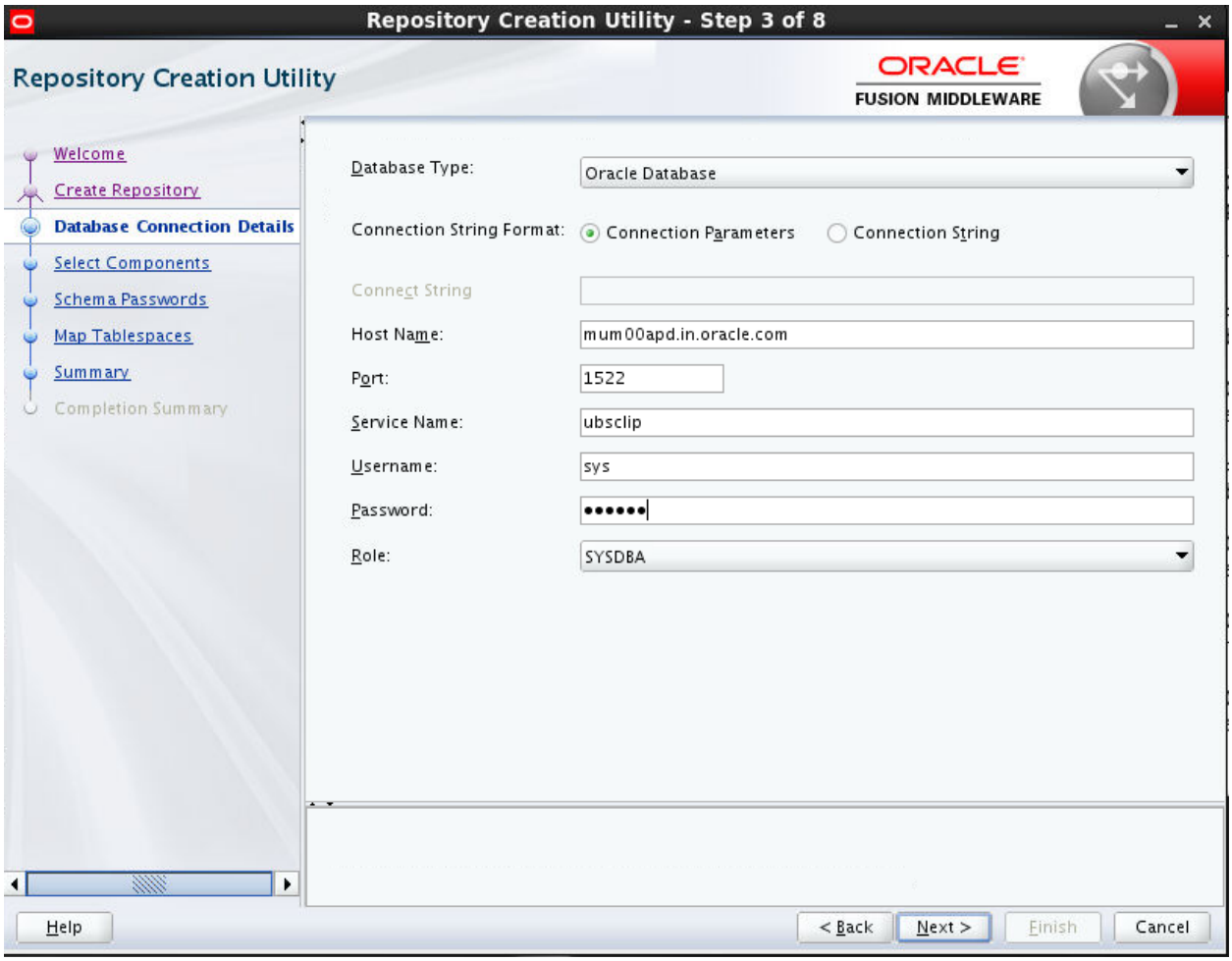
./rcu


Repository Creation Utility - Step 1 of 8
Repository Creation Utility
ORACLE
FUSION MIDDLEWARE
Welcome
Create Repository
Database Connection Details
Select Components
Schema Passwords
Map Tablespaces
Summary
Completion Summary
Welcome to Repository Creation Utility 12.2.1.3.0 for Oracle Fusion Middleware.
The Repository Creation Utility enables you to create and drop database schemas that are required for Oracle Fusion Middleware products.
Copyright © 1996,2017, Oracle and/or its affiliates. All rights reserved.
Help
< Back
Next >
Finish
Cancel

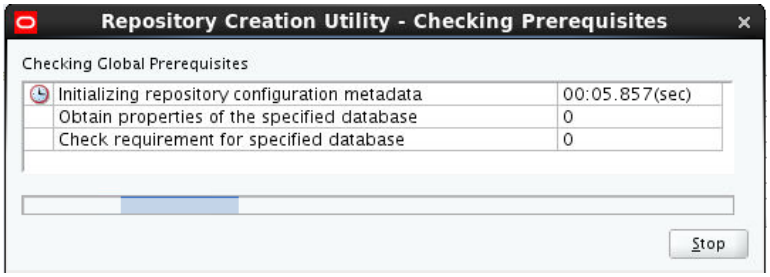
Next >

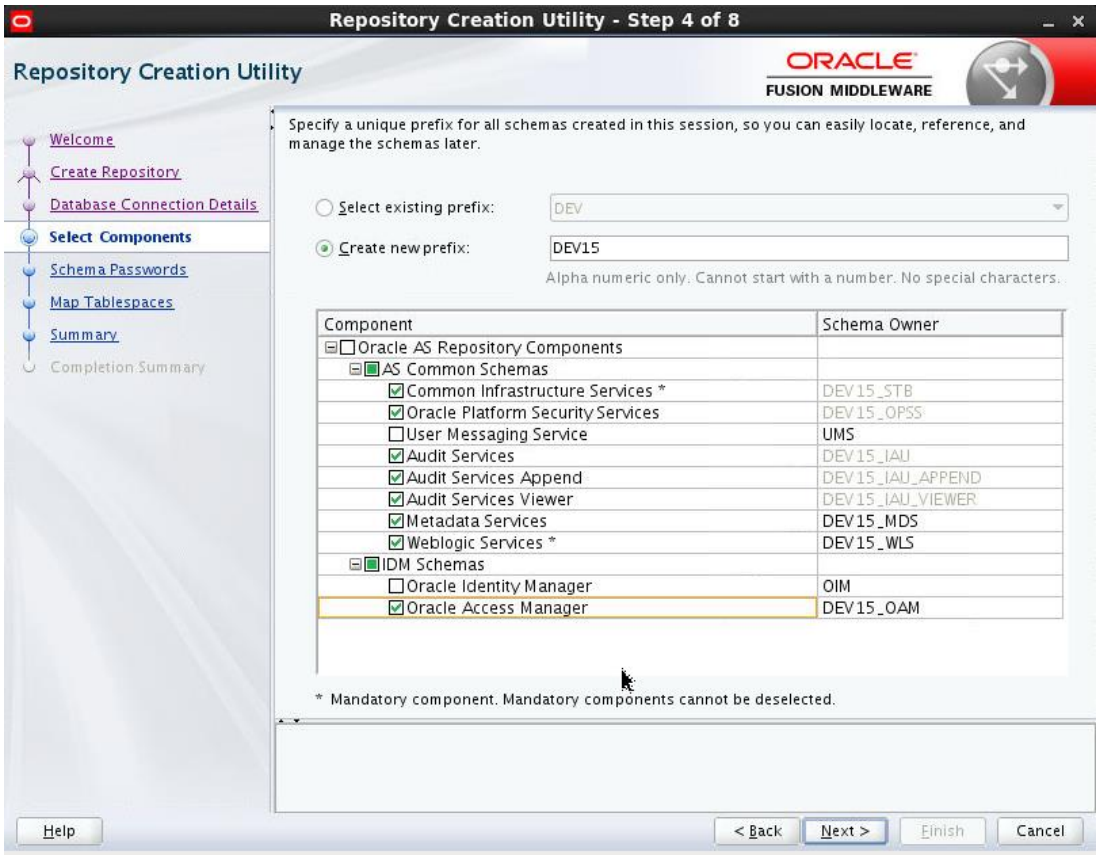

Repository Creation Utility - Step 2 of 8
Repository Creation Utility
ORACLE
FUSION MIDDLEWARE
Welcome
Create Repository
Database Connection Details
Select Components
Schema Passwords
Map Tablespaces
Summary
Completion Summary
Create Repository
Create and load component schemas into a database.
System Load and Product Load
I have DBA privileges.
Prepare Scripts for System Load
Create scripts for DBA to run later.
Perform Product Load
System Load scripts have been run by DBA.
Drop Repository
Remove component schemas from a database.
Help
< Back
Next >
Finish
Cancel

Next >

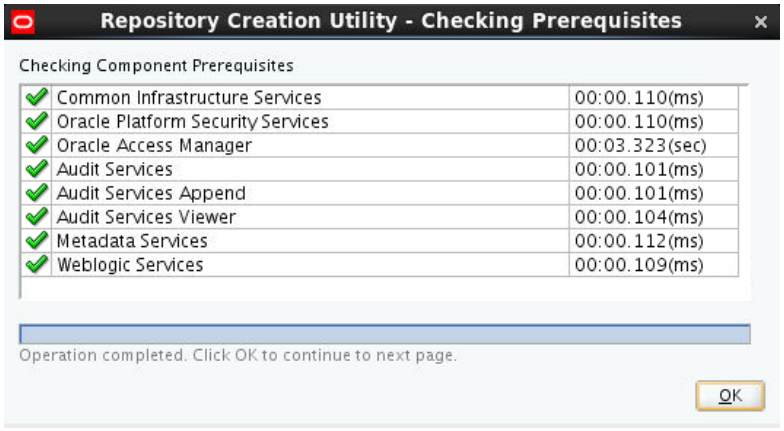


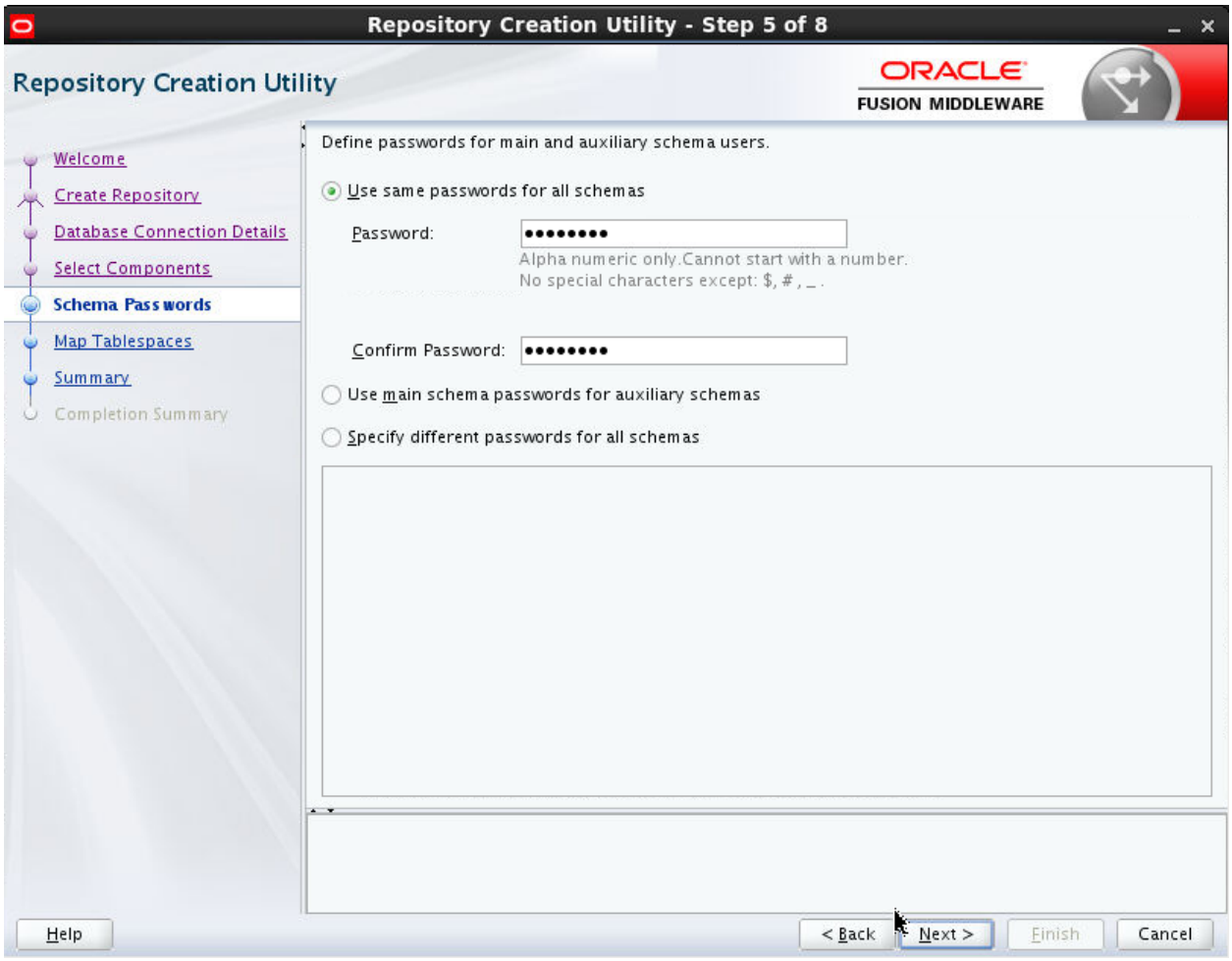
Provide connection parameter (Oracle 12c DB) > Next



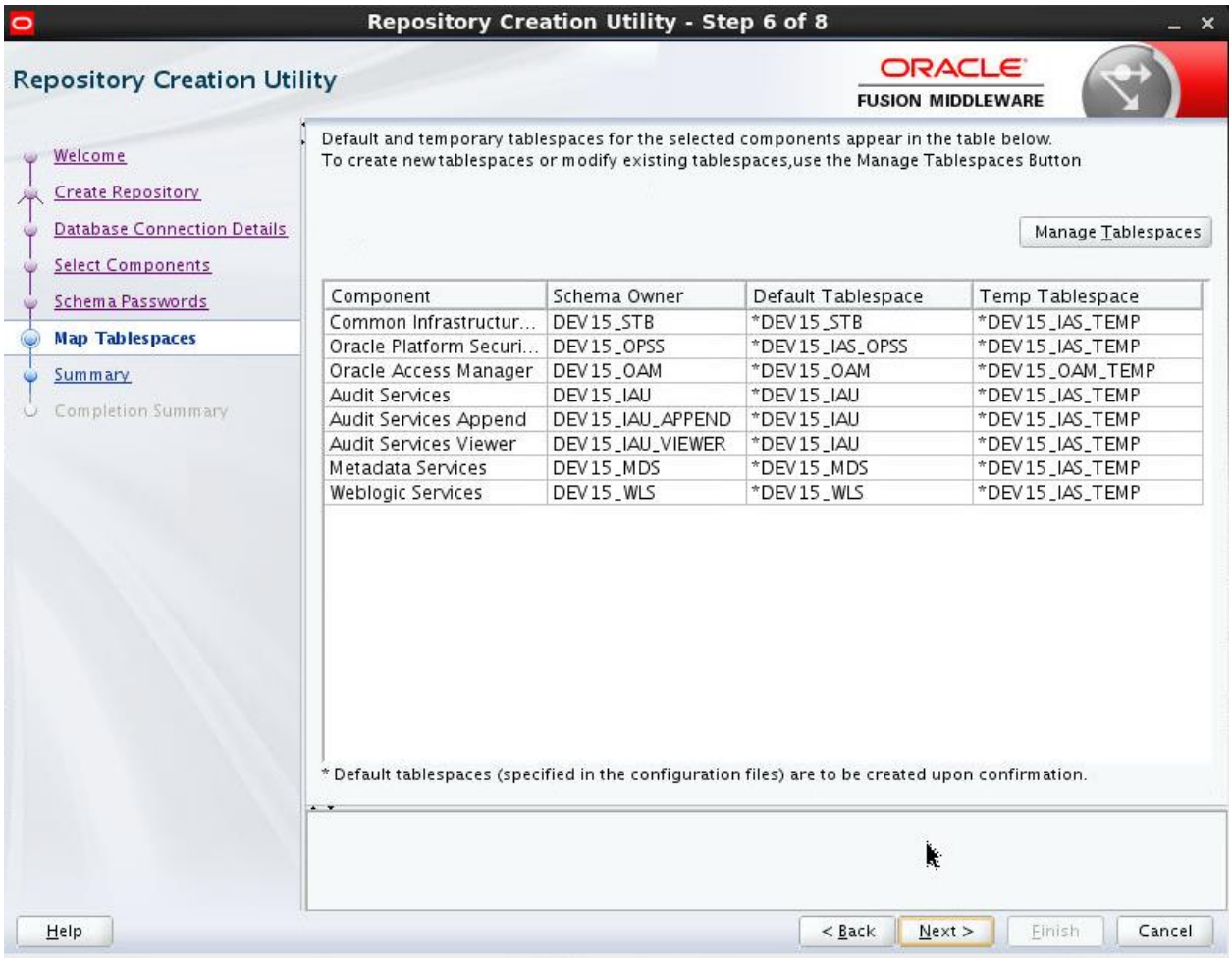


Provide prefix > Next





Provide passwords > Next



Click Next > Finish to complete installation of schemas

Configuring Weblogic Domain to use OUDSM and OAM

- Execute the below command, to launch the Weblogic Configuration Wizard:

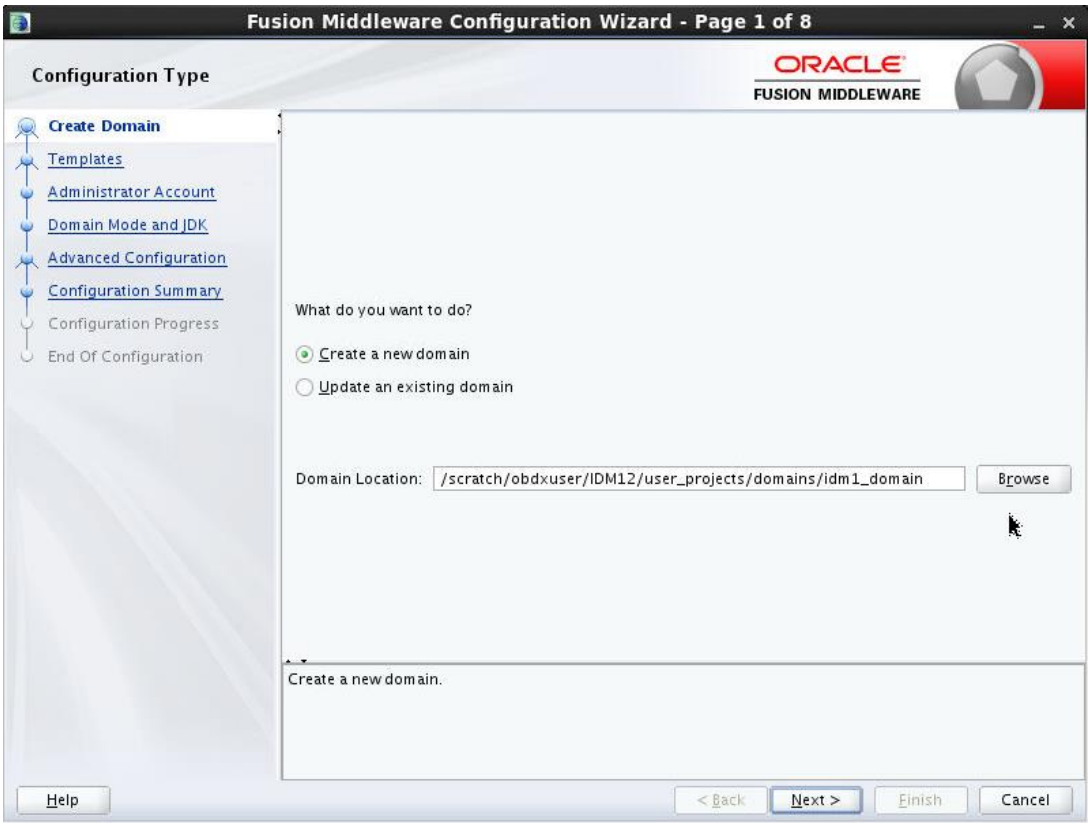
<Oracle_Home>/oracle_common/common/bin/config.sh

Note: Oracle_Home is the Middleware Home, which is the absolute path where Weblogic Server is installed.

- Follow the instructions as shown below for installation:

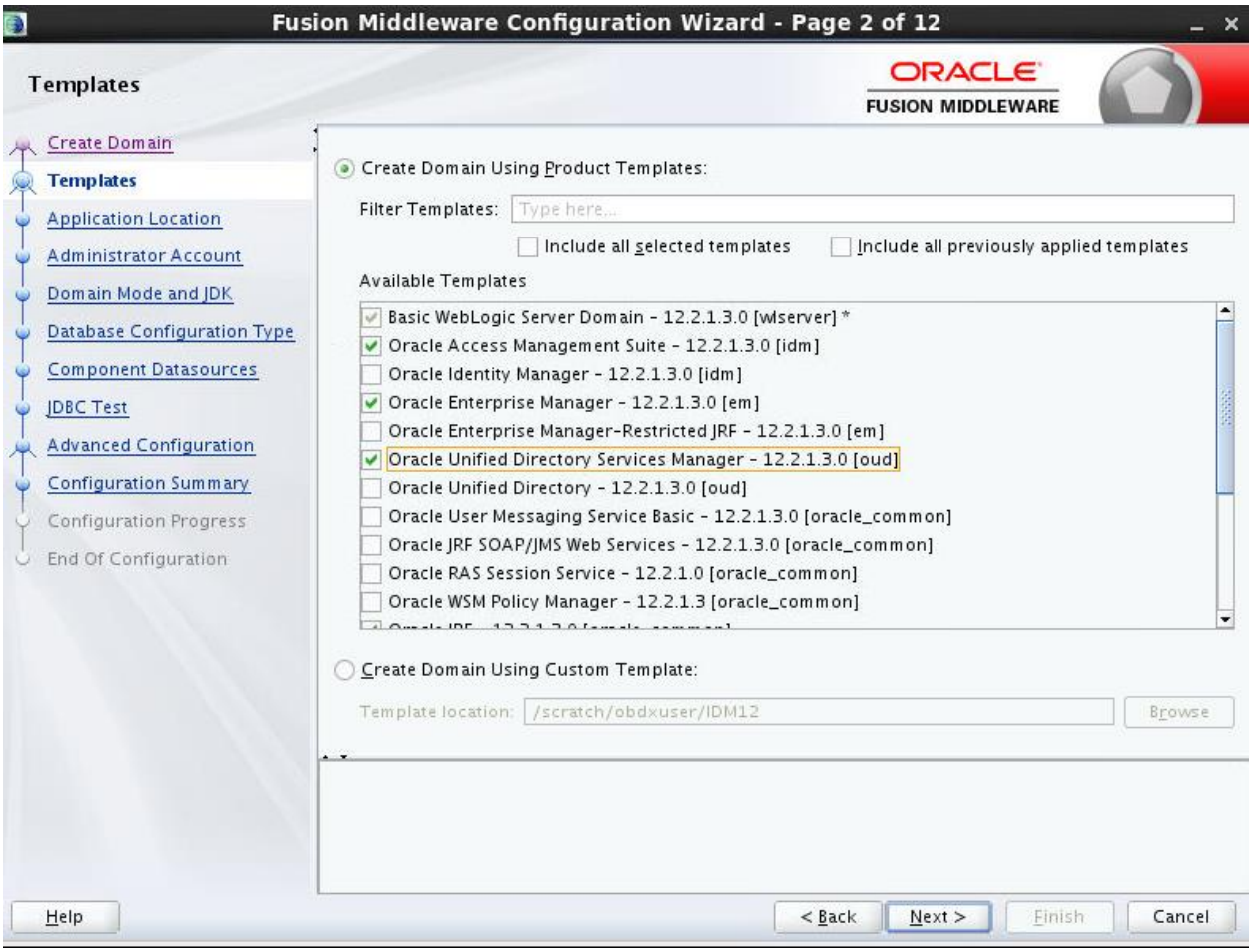
Welcome Screen

The Welcome screen isdisplayed > Next

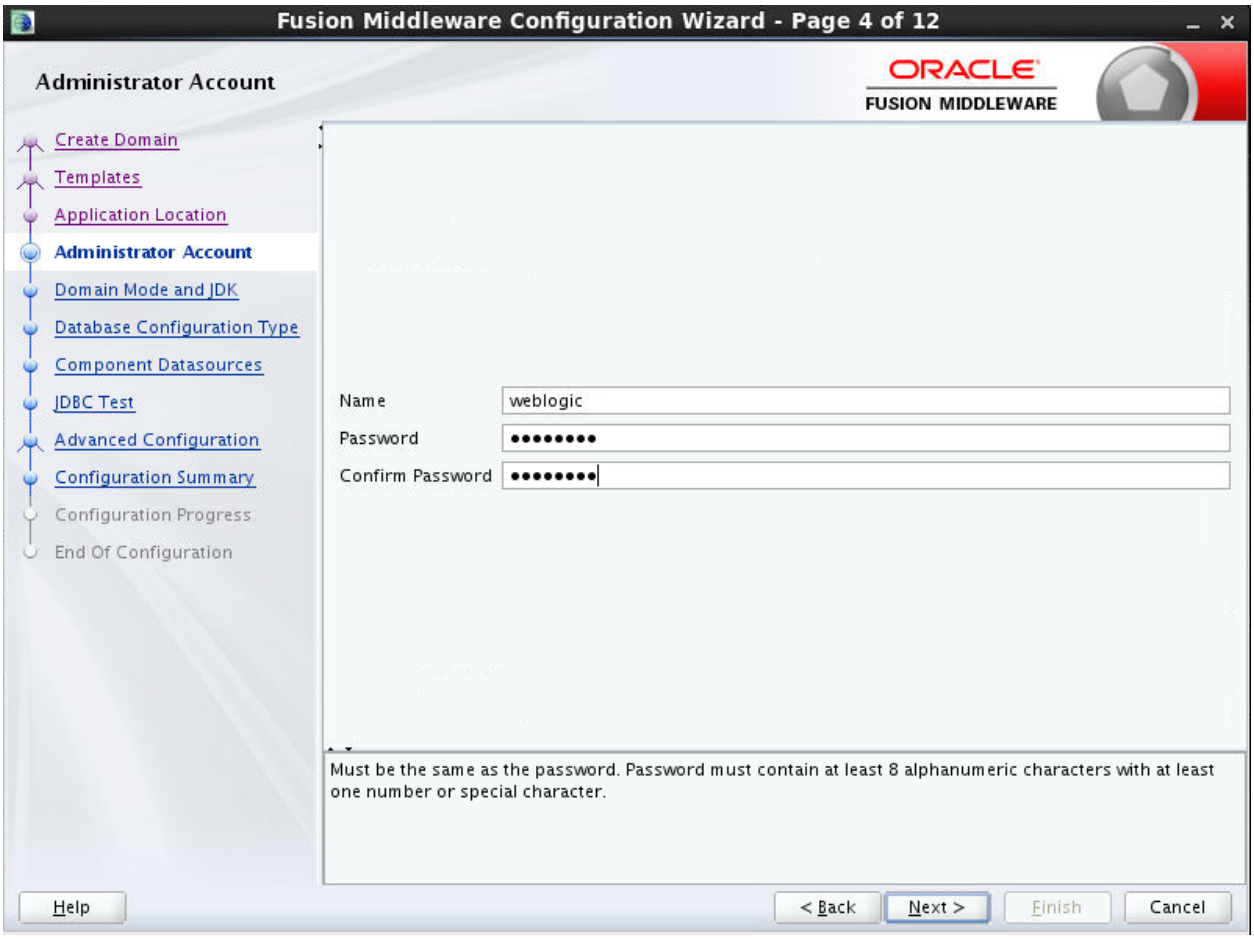


Click Next to continue.

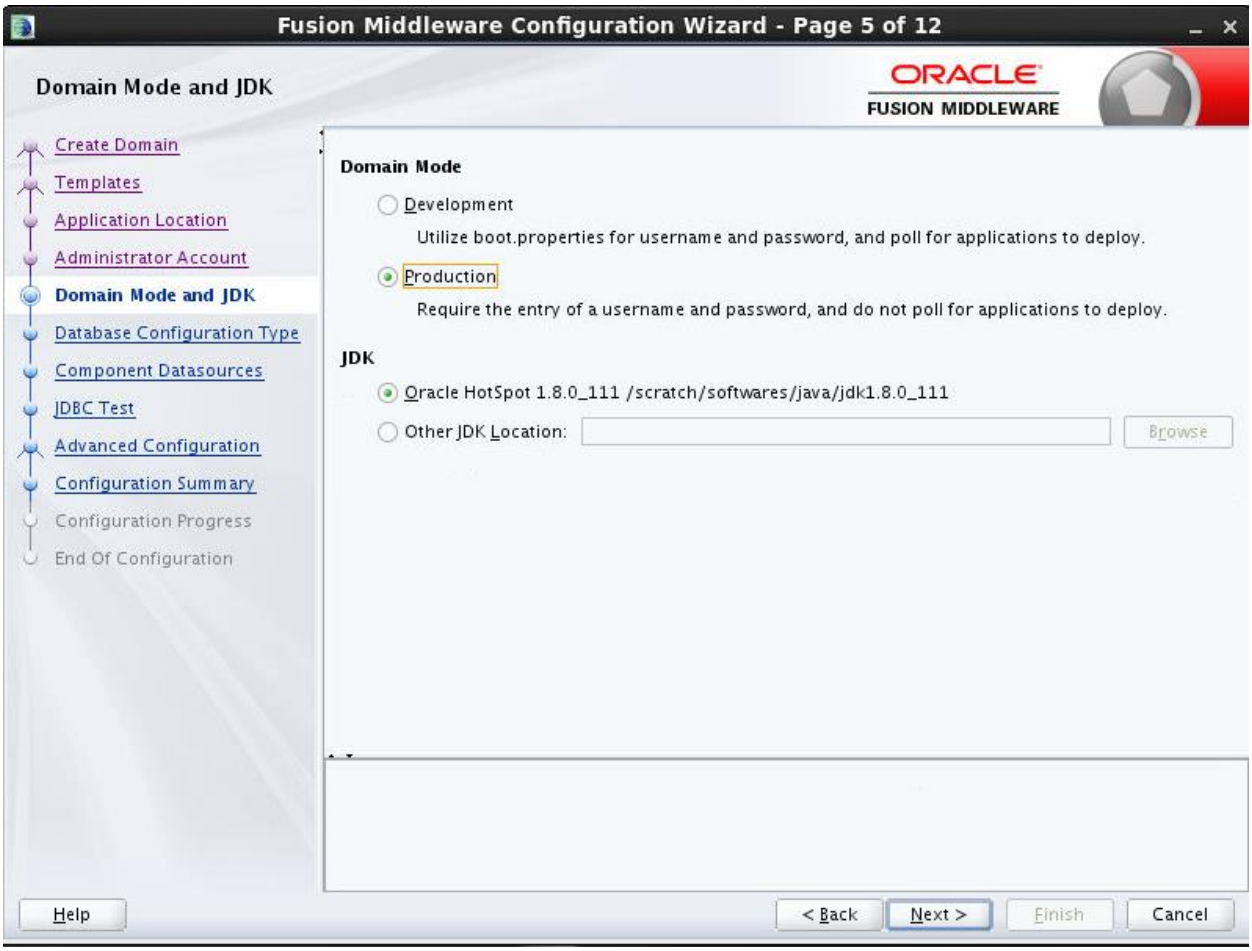
Select Domain Source Screen

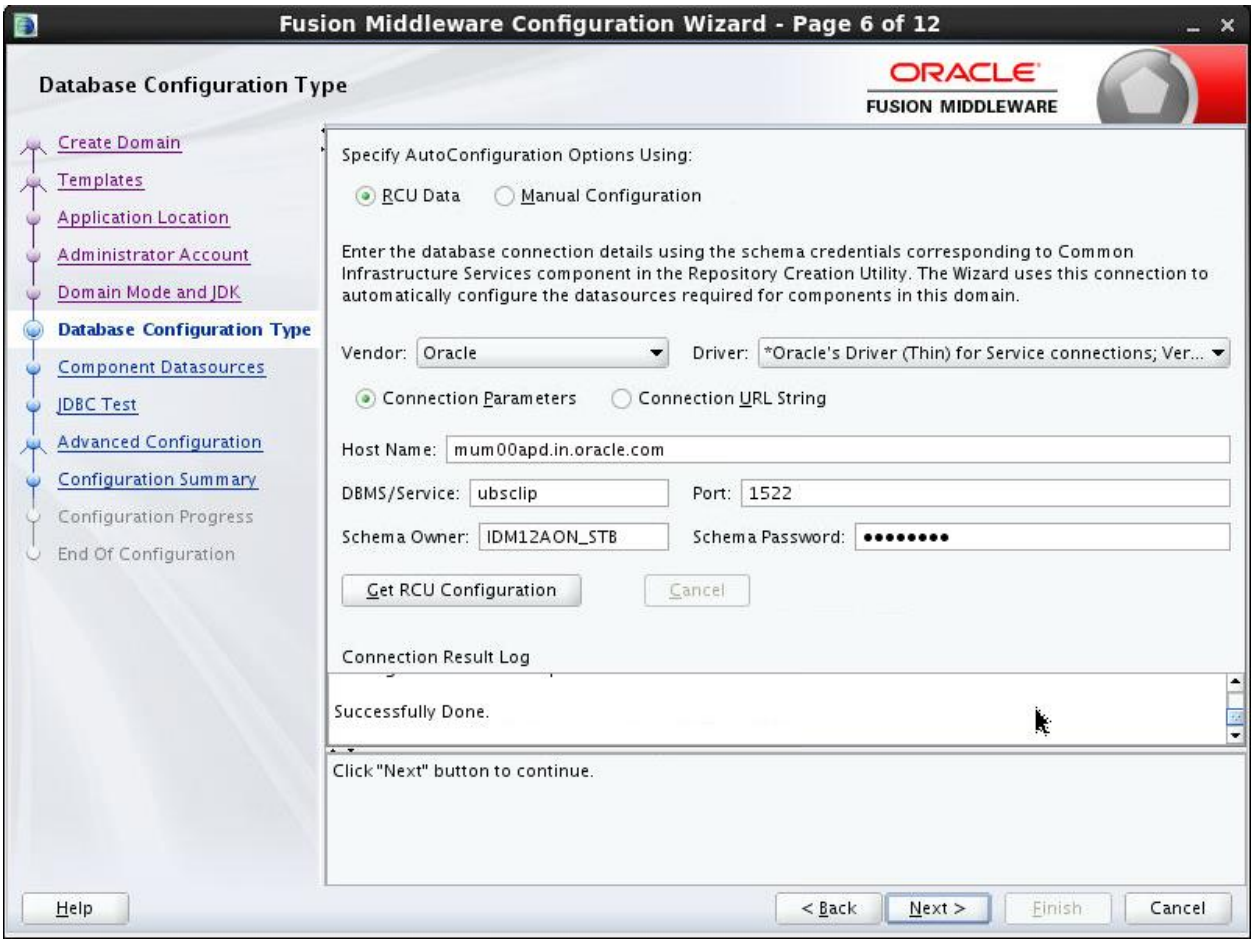


Select options as shown above (Do not uncheck auto selected options) > Next

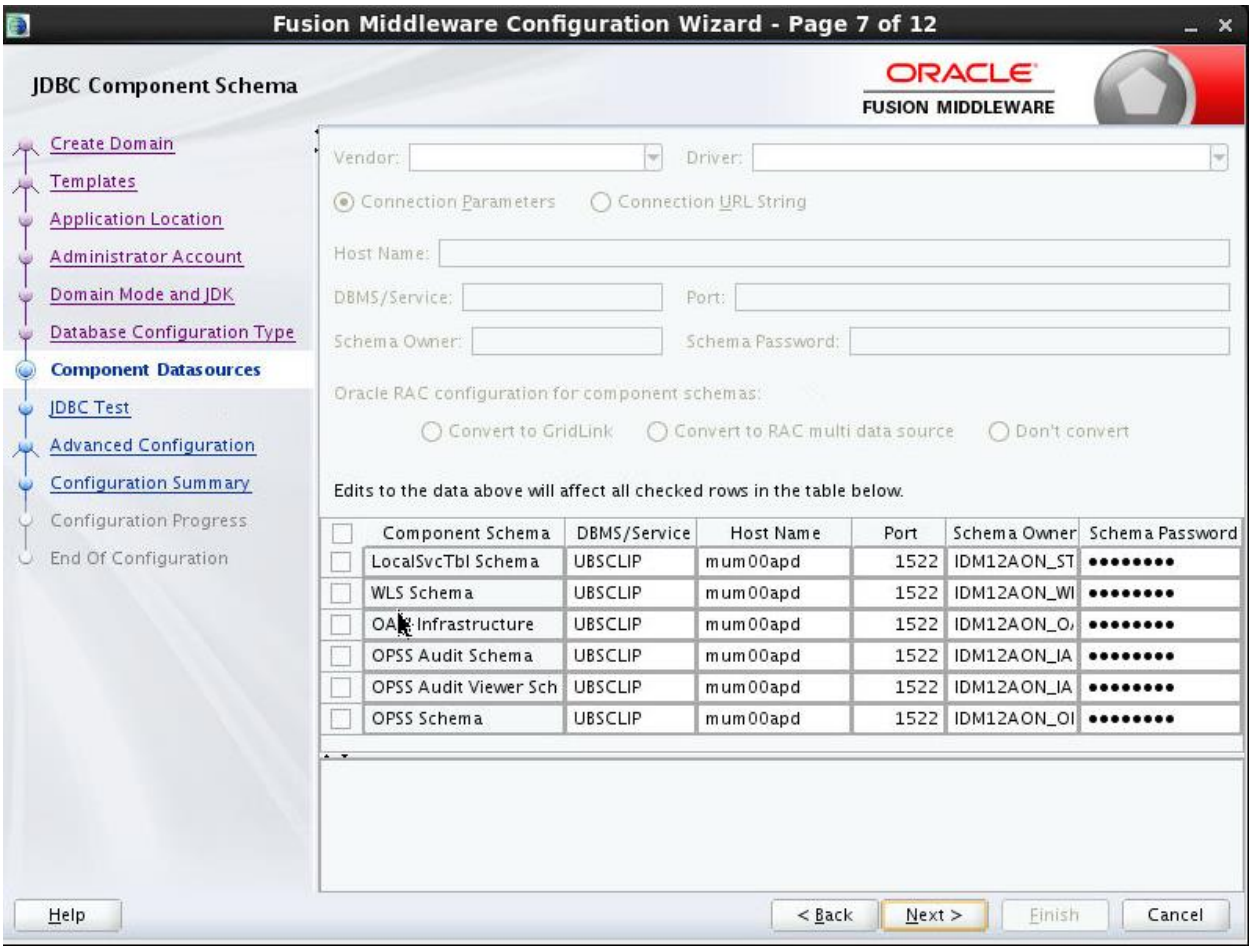


Enter domain password > Next

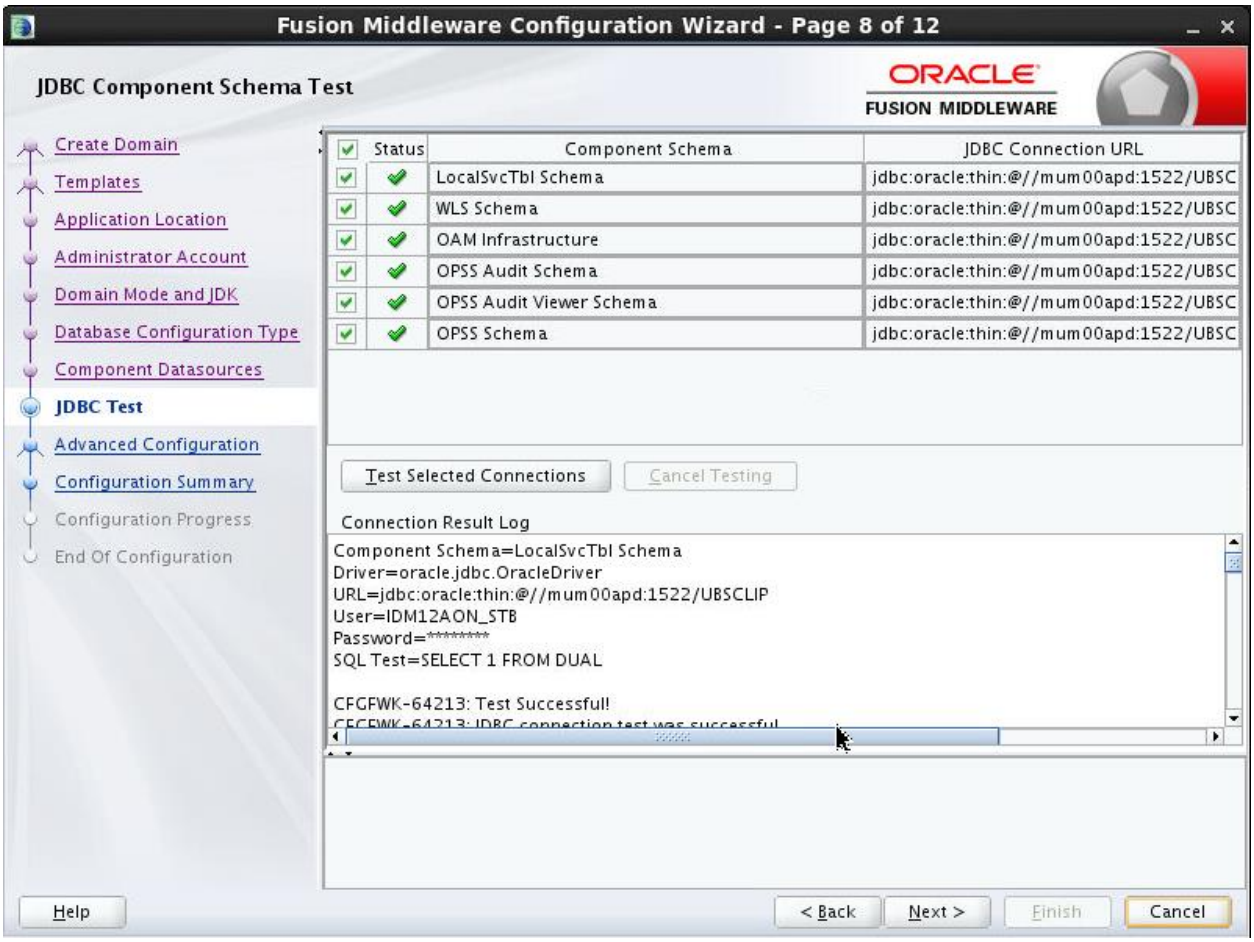

Fusion Middleware Configuration Wizard - Page 5 of 12
Domain Mode and JDK
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Application Location
Administrator Account
Domain Mode and JDK
Database Configuration Type
Component Datasources
JDBC Test
Advanced Configuration
Configuration Summary
Configuration Progress
End Of Configuration
Domain Mode
Development
Utilize boot.properties for username and password, and poll for applications to deploy.
Production
Require the entry of a username and password, and do not poll for applications to deploy.
JDK
Oracle HotSpot 1.8.0_111 /scratch/softwares/java/jdk1.8.0_111
Other JDK Location:
Browse
Help
< Back
Next >
Finish
Cancel



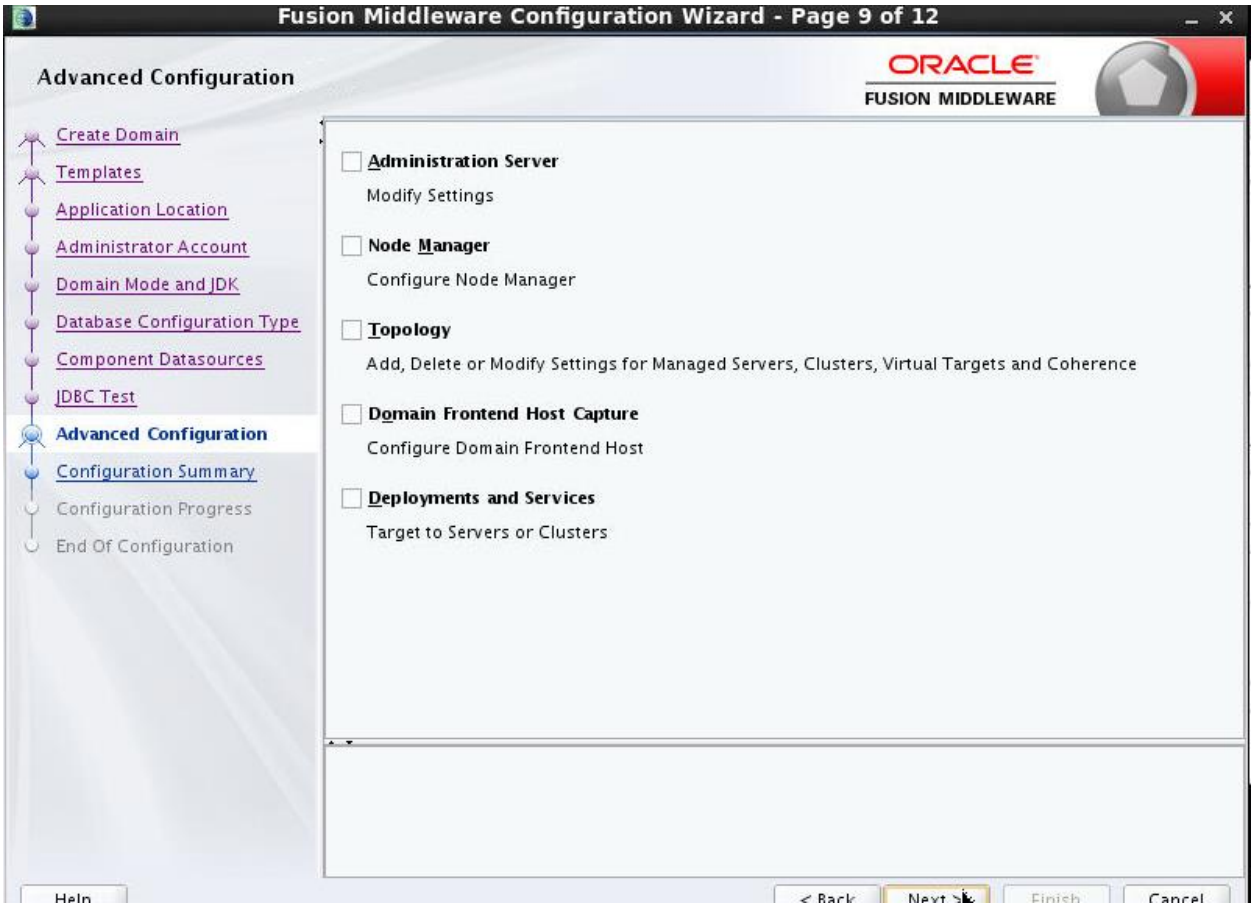
Provide Database details as created by RCU previously (Use same schema prefix) > Get RCU Configuration > Next


Fusion Middleware Configuration Wizard - Page 7 of 12
JDBC Component Schema
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Application Location
Administrator Account
Domain Mode and JDK
Database Configuration Type
Component Datasources
JDBC Test
Advanced Configuration
Configuration Summary
Configuration Progress
End Of Configuration
Vendor:
Driver:
Connection Parameters
Connection URL String
Host Name:
DBMS/Service:
Port:
Schema Owner:
Schema Password:
Oracle RAC configuration for component schemas:
Convert to GridLink
Convert to RAC multi data source
Don't convert
Edits to the data above will affect all checked rows in the table below.
Component Schema
DBMS/Service
Host Name
Port
Schema Owner
Schema Password
LocalSvcTbl Schema
UBSCLIP
mum00apd
1522
IDM12AON_ST
WLS Schema
UBSCLIP
mum00apd
1522
IDM12AON_WI
OAM Infrastructure
UBSCLIP
mum00apd
1522
IDM12AON_O
OPSS Audit Schema
UBSCLIP
mum00apd
1522
IDM12AON_IA
OPSS Audit Viewer Sch
UBSCLIP
mum00apd
1522
IDM12AON_IA
OPSS Schema
UBSCLIP
mum00apd
1522
IDM12AON_OI
Help
< Back
Next >
Finish
Cancel

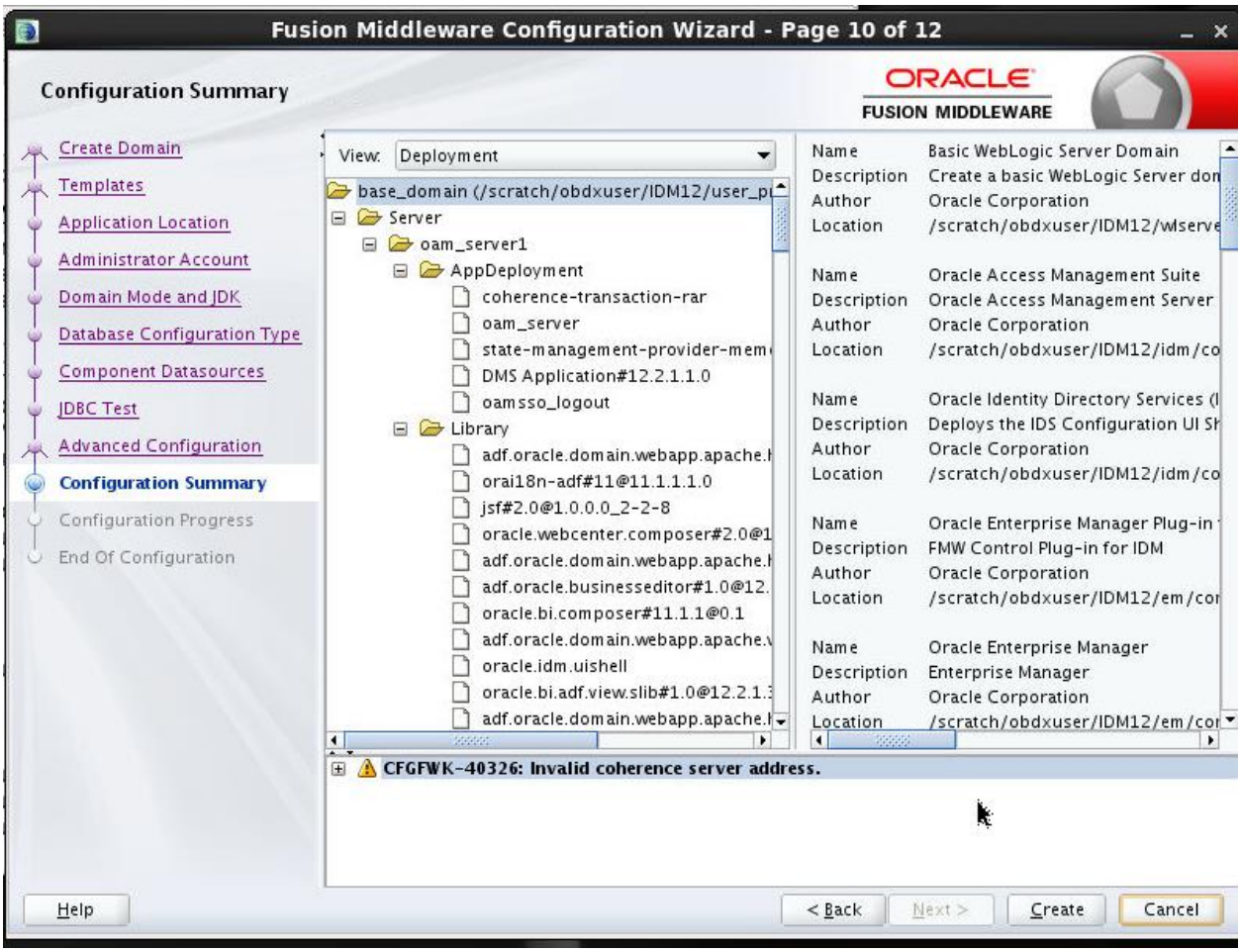
>Next


Fusion Middleware Configuration Wizard - Page 8 of 12
JDBC Component Schema Test
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Application Location
Administrator Account
Domain Mode and JDK
Database Configuration Type
Component Datasources
JDBC Test
Advanced Configuration
Configuration Summary
Configuration Progress
End Of Configuration
Status
Component Schema
JDBC Connection URL
LocalSvcTbl Schema
WLS Schema
OAM Infrastructure
OPSS Audit Schema
OPSS Audit Viewer Schema
OPSS Schema
jdbc:oracle:thin:@//mum00apd:1522/UBSC
Test Selected Connections
Cancel Testing
Connection Result Log
Component Schema=LocalSvcTbl Schema
Driver=oracle.jdbc.OracleDriver
URL=jdbc:oracle:thin:@//mum00apd:1522/UBSCLIP
User=IDM12AON_STB
Password=********
SQL Test=SELECT 1 FROM DUAL
CFGFWK-64213: Test Successful!
Help
< Back
Next >
Finish
Cancel

>Next



>Change any ports if required by selecting required options > Next



Click Create and then Finish to complete the configuration

Starting servers –

OUD

<ORACLE_HOME>/asinst_1/OUD/bin → ./start-ds

OAM

<Oracle_Home>/user_projects/domains/<OAM_domain>/bin/startWeblogic.sh

<Oracle_Home>/user_projects/domains/<OAM_domain>/bin/startManagedWeblogic.sh oam_server1

Configuration Summary Screen

7.2 Post-Installation Tasks

After installing and configuring Oracle Access Management, the user can perform the following steps:

- Configure your own LDAP to use instead of the default embedded LDAP, which comes with Oracle Weblogic Server.
- To do this, ensure that the Admin Server is running. Login to the Weblogic Console using the following URL:

  http://<hostname>:<oam_admin_port>/console

- Now, go to Security Realms > myrealm > Providers
- Click on '**DefaultAuthenticator**" provider and change the Control Flag to SUFFICIENT and Save the changes.
- Now, click on New and enter the below details and click Save.

  Name : OUDAuthenticator

  Type : IPlanetAuthenticator

  Control Flag : SUFFICIENT

- Click on the new OUDAuthenticator Provider and under Provider Specific tab and set the details of LDAP where the server should point. Refer to the following table for more information:

Property	**Value**
Host	This is the LDAP Server (OUD) Hostname
Port	This is the LDAP Server (OUD) Port. E.g. **1389**
Principal	This is the Administrator Account name. E.g. **cn=orcladmin**
Credential	This is the Administrator Account password.
UserBase DN	This is the OUD user search base **cn=Users, dc=in,dc=oracle,dc=com**
GroupBase DN	This is the OUD group search base **cn=Groups, dc=in,dc=oracle,dc=com**

- Click on Save to update the changes.
- Click on Save and reorder the providers so that LDAP Provider gets highest priority followed by DefaultAuthenticator.
- Click Save to apply the changes and shutdown the Admin Server for restart.
- Now, again restart the Admin Server using the command,

<Oracle_Home>/user_projects/domains/<OAM_domain>/bin/startWeblogic.sh

- Also, restart the OAM Managed Server (by default it is 'oam_server1') as mentioned below:

  <Oracle_Home>/user_projects/domains/<OAM_domain>/bin/startManagedWeblogic.sh oam_server1

7.3 Verifying the Installation

- You can perform any combination of the following tasks to verify that your installation was successful:
  - Ensure that the Administration Server and Managed Servers are up and running.
  - Verifying the installation for Oracle Access Management
- Log in to the Administration Console for Oracle Access Management using the following URL:

  http://<hostname>:<oam_admin_port>/oamconsole

- You will be redirected to:

  http://<hostname>:<oamserver_port>/oam/server

When you access this Administration Console running on the Administration Server, you are prompted to enter a user name and password. Note that you must have Administrator's role and privileges.

- Verifying the installation for Weblogic Server Administration Console

If the installation and configuration of Oracle Access Management are successful, this console shows the Administration Server in running mode.

Verifying the installation for OUD console

http://<host>:<admin port>/oudsm

Home

8. Configuring OBDX Application and Mobile Banking using OAM and Weblogic

Following topics in this chapter provides detailed information on configuring OBDX Application and Mobile Banking:

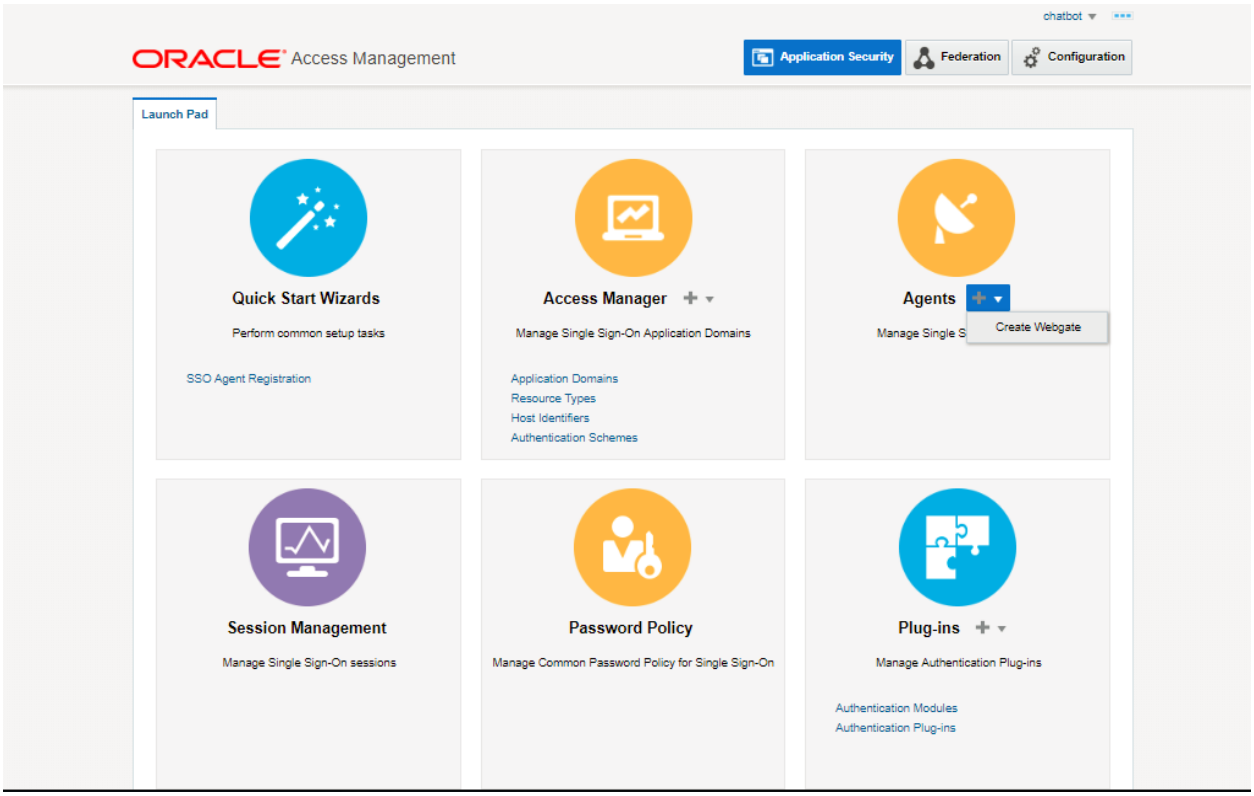
- Section 8.1, "Creating WebGate Agent on OAM Console"
- Section 8.2, “Creating Custom Login Scheme”
- Section 8.3, "Manage Application Domain and Resources"
-

8.1 REST API configurations for Mobile Banking (2-Legged OAuth Flows) Creating WebGate Agent on OAM Console

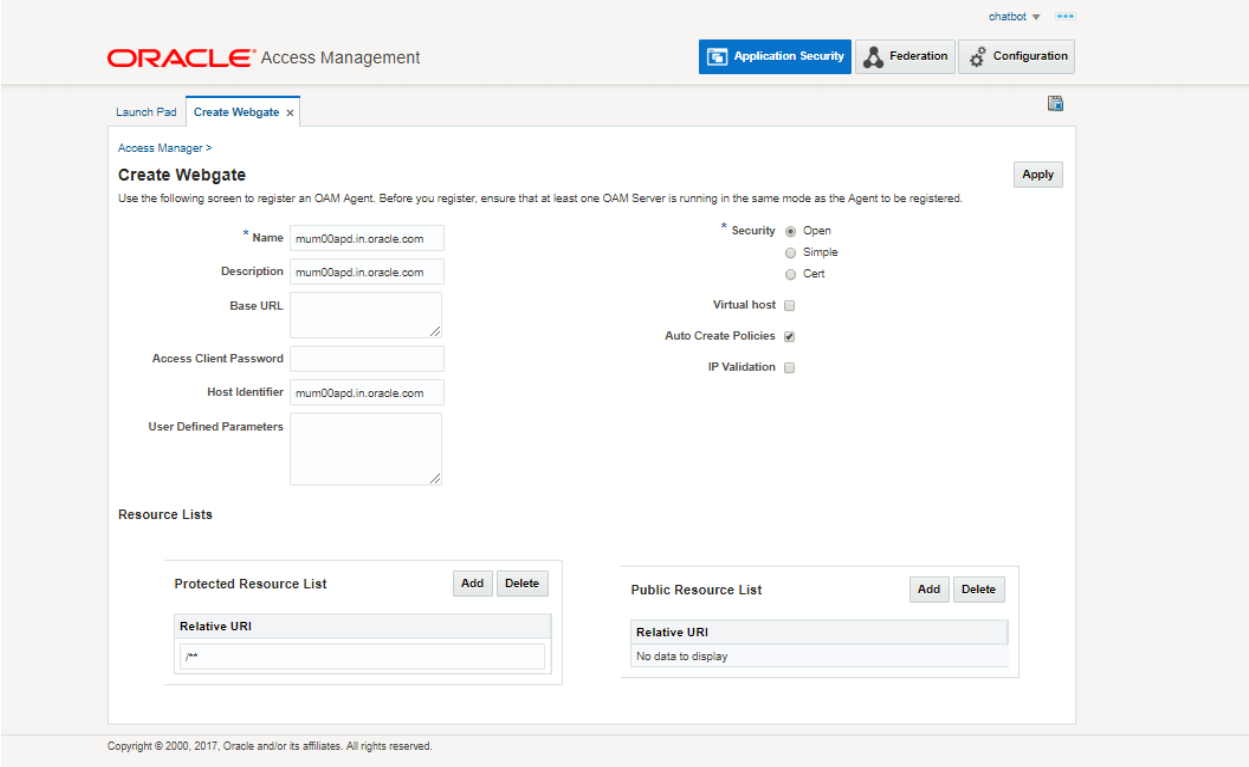
Before you can use the new Oracle HTTP Server 12c WebGate agent for Oracle Access Manager, you must register the new WebGate agent with Oracle Access Manager by using the Oracle Access Manager Administration Console. Following are the steps to register a WebGate Agent:

Login to OAM Console.

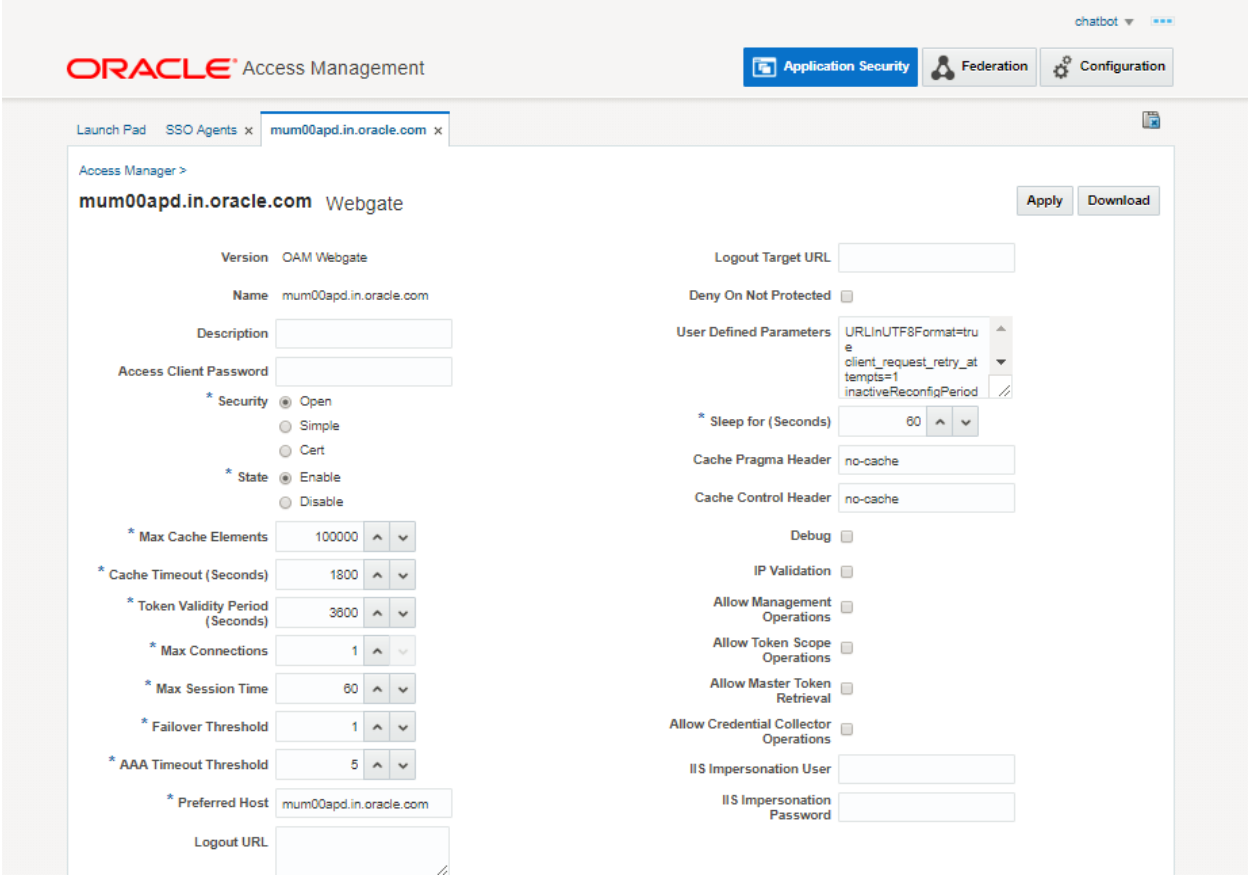
E. g. ***http://<hostname>:<oam_admin_port>/oamconsole***



In the **Agents** block, **Create Webgate**.



- Enter the hostname in Name field
- Click on Apply



This creates the Webgate Agent for OAM. Download files for webgate by clicking the “Download” button. Extract below files from zip.

cwallet.sso

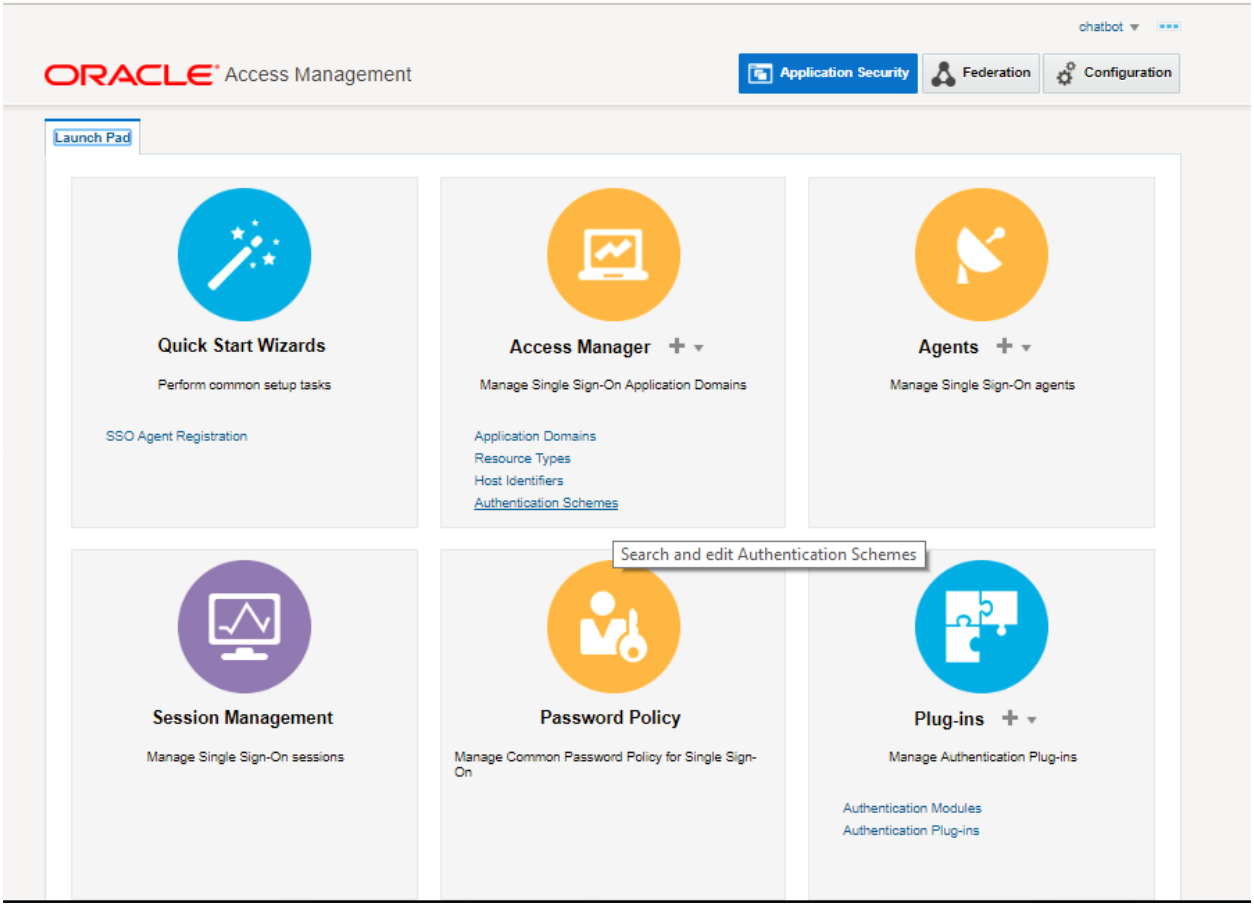
ObAccessClient.xml

The user should copy the files from the above mentioned location to the ***<WebTier_Instance_Home>/config/OHS/ohs1/webgate/config*** directory and restart OHS server instance

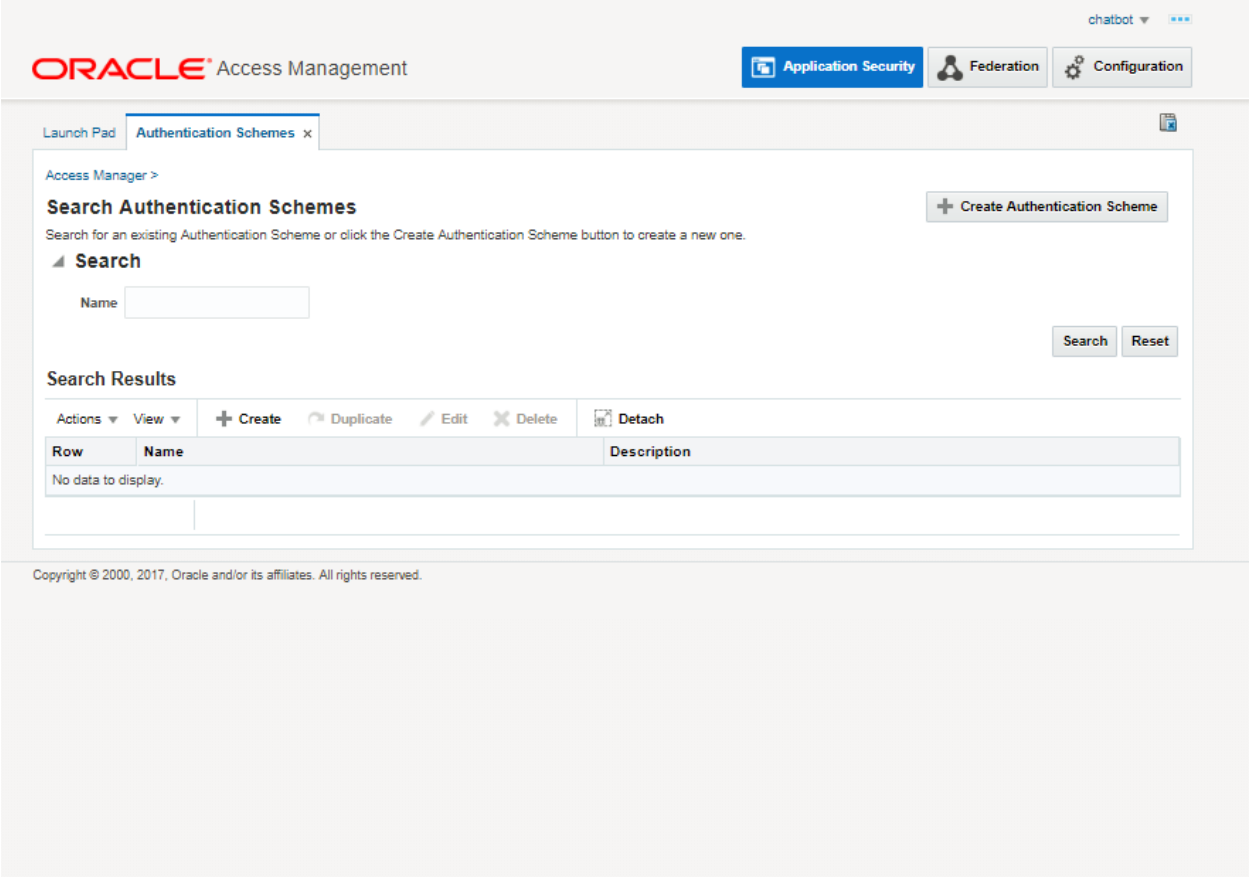
Note: The hostname here will be the fully qualified hostname of the server where Webgate is installed.

8.2 Creating Custom Login Scheme

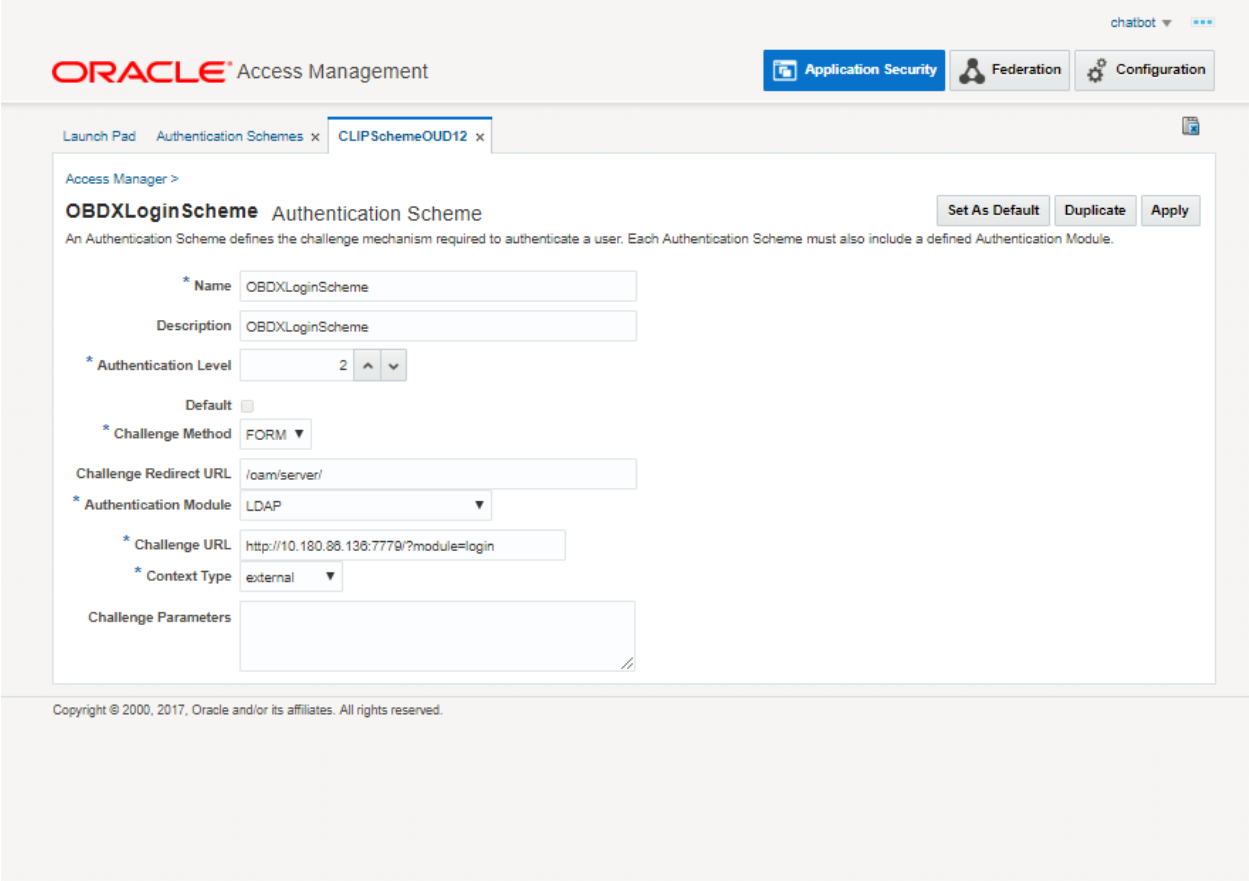
To add a Custom Login Page, go to Launch Pad on oamconsole.



Click on Authentication Schemes from the Access Manager block.



Click on Create Authentication Scheme

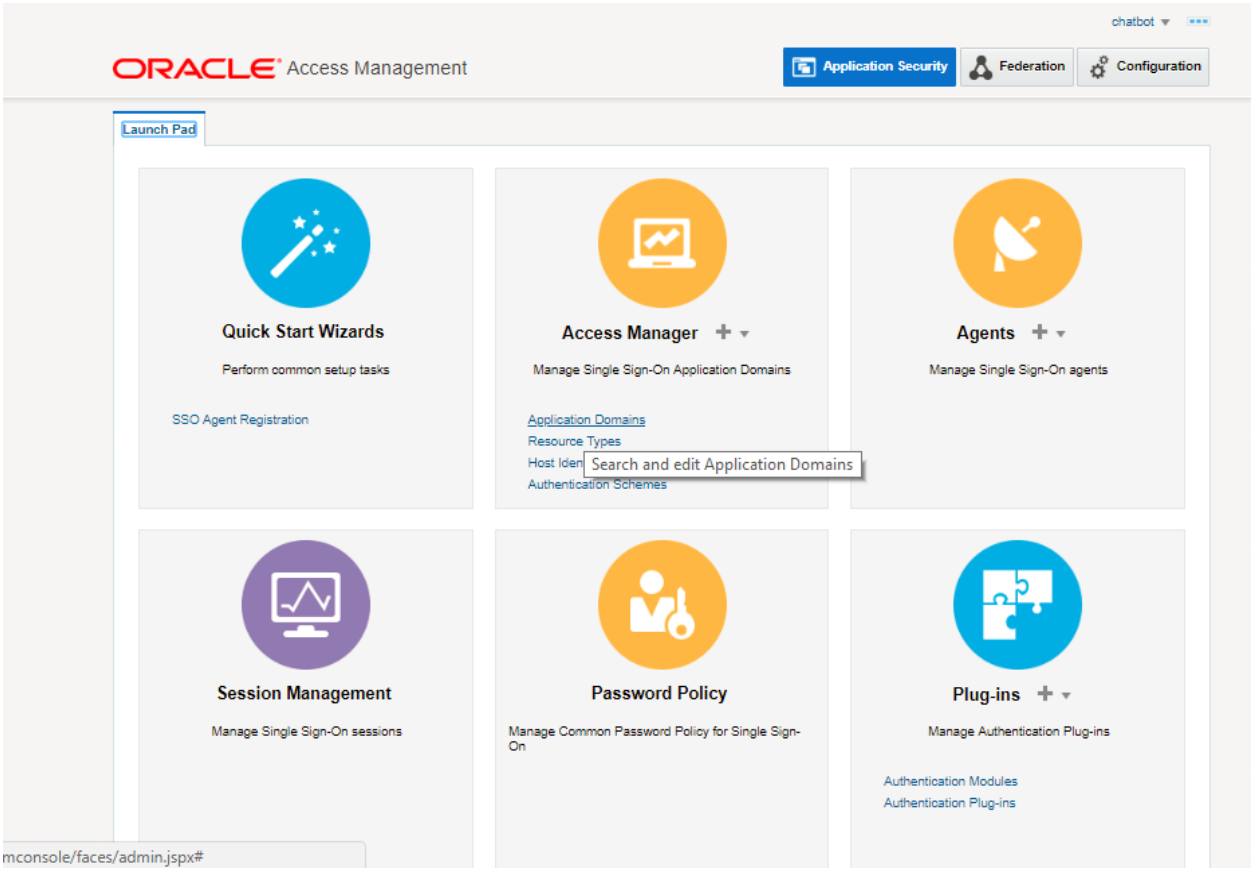


Specify the following details:

- Provide a name for the Scheme. E.g. OBDXLoginScheme
- Select the authentication level as 2.
- Choose the Challenge Method as FORM
- Enter the Challenge Re-direct URL. E.g. /oam/server
- Select the Authentication Module as LDAP
- Enter the Challenge URL which is the actual URL of the login page.
- Select the Context Type as External

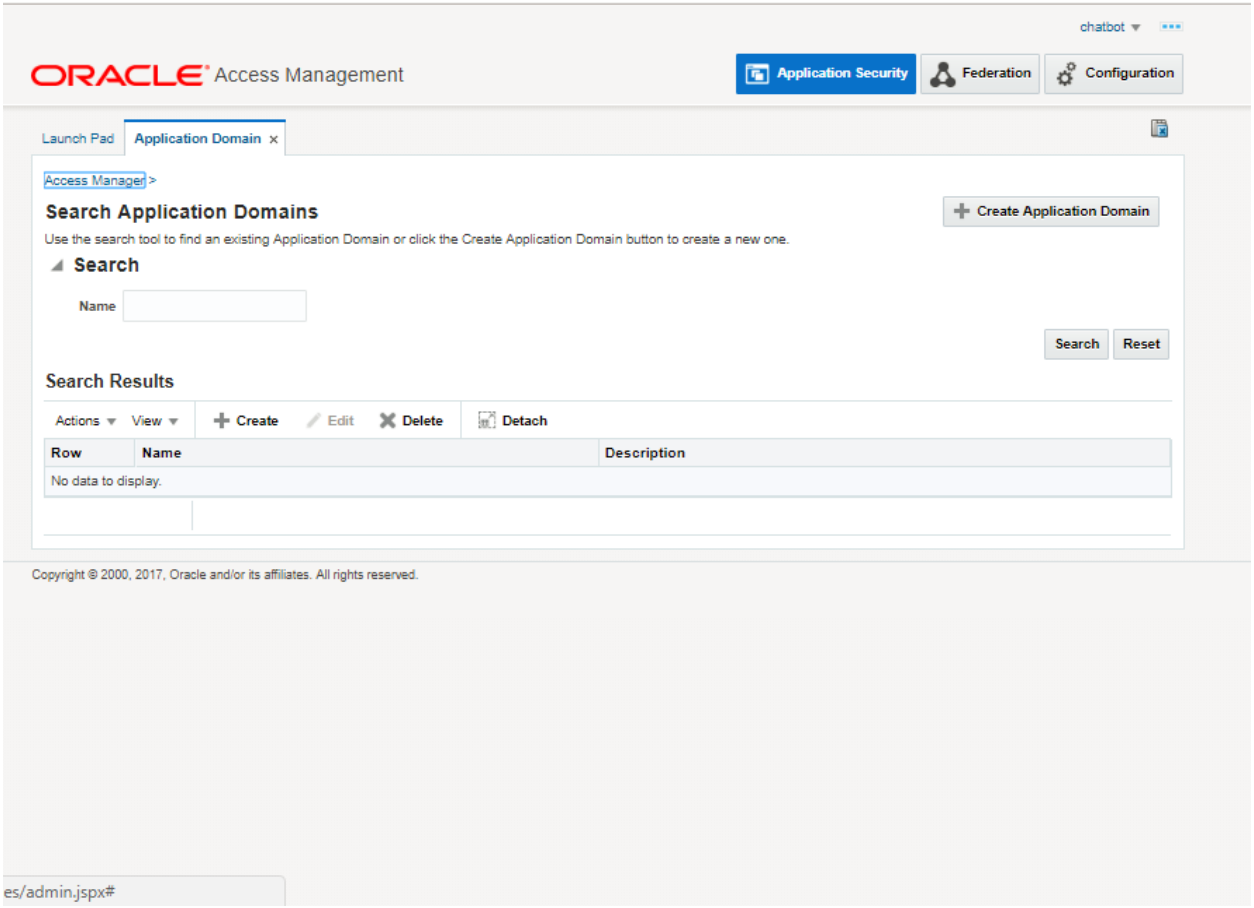
Click on Apply to save the Scheme.

8.3 Manage Application Domain and Resources

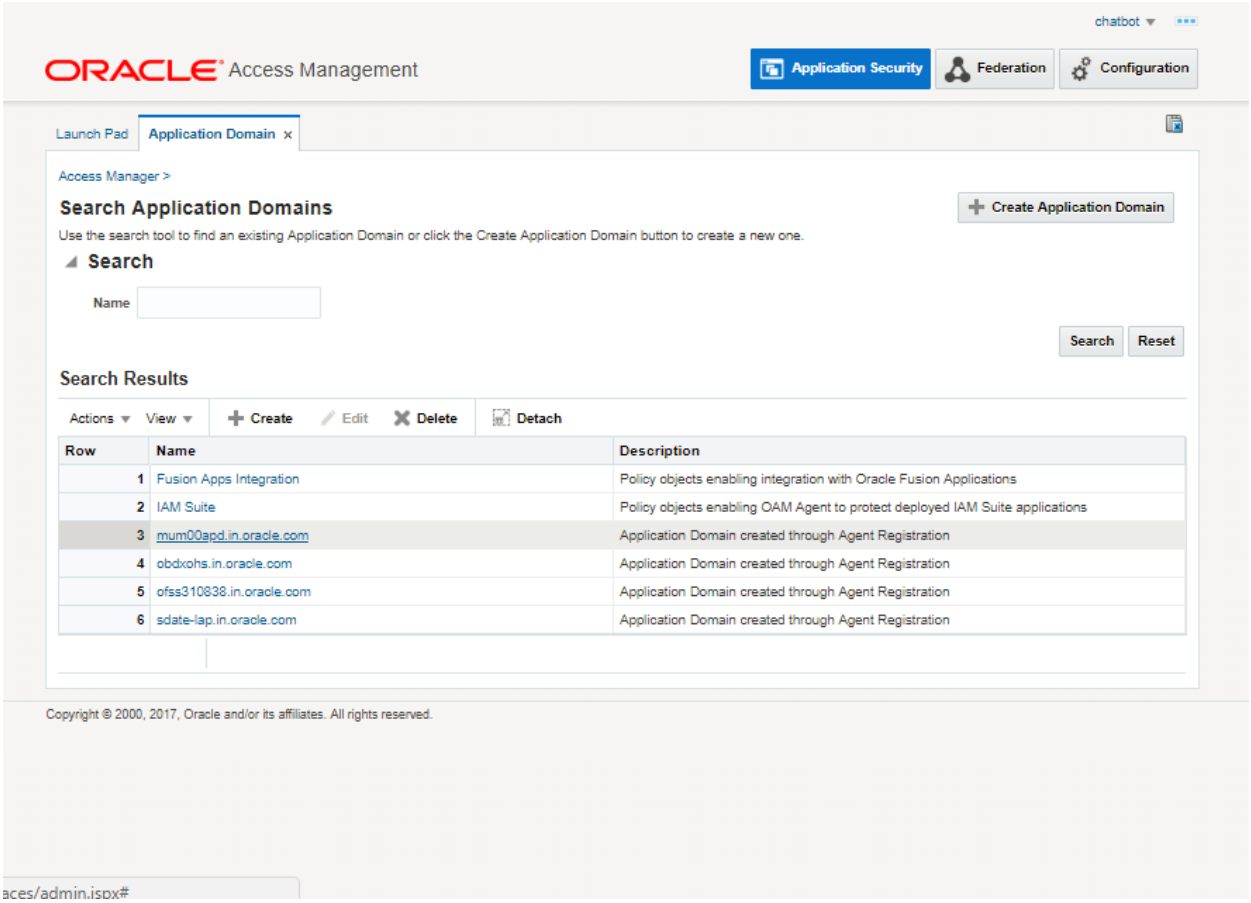


Go to **Launch Pad** and search for an application domain.

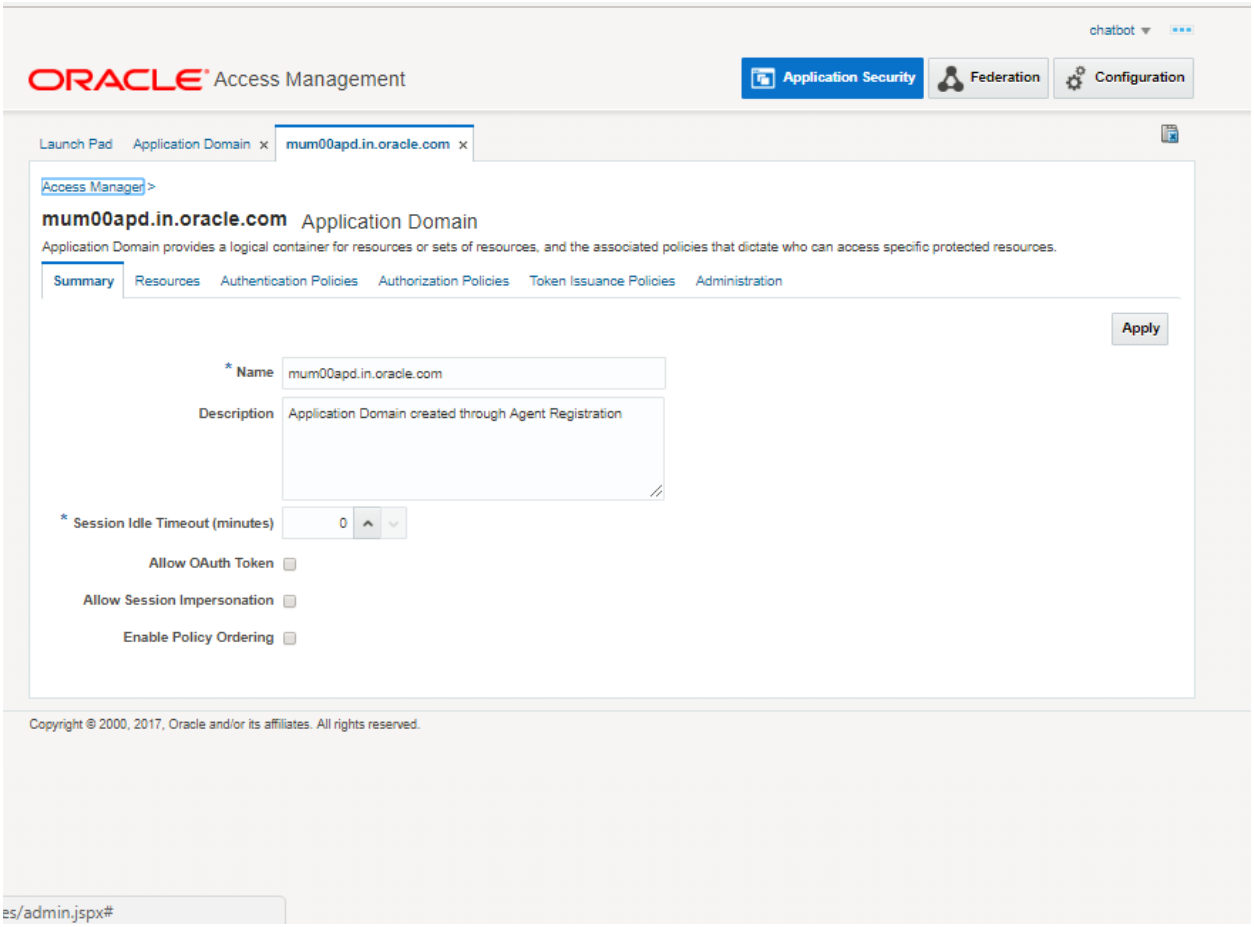
Click on **Applications Domain** in the Access Manager tab.



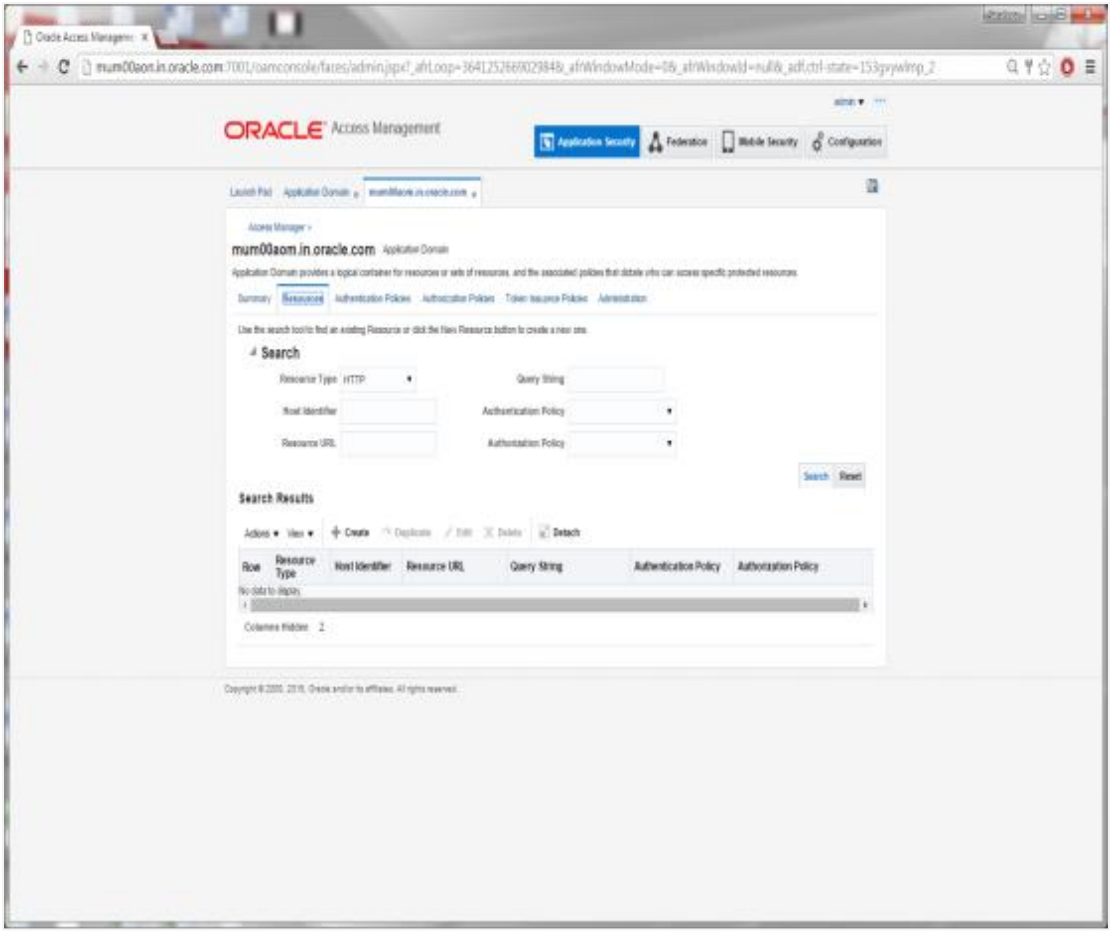
Click on **Search**



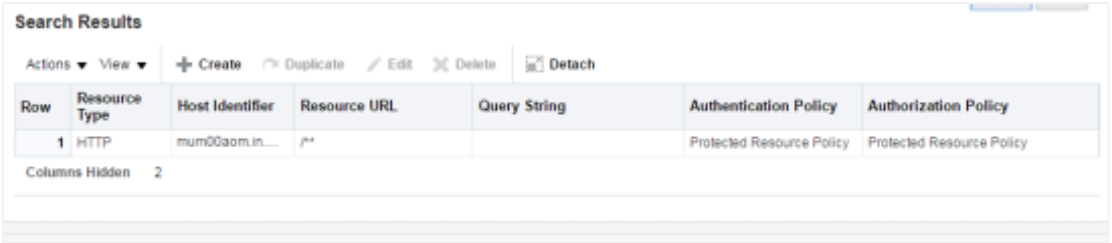
Click on the Domain Name you want to configure.



Click on the Resources Tab

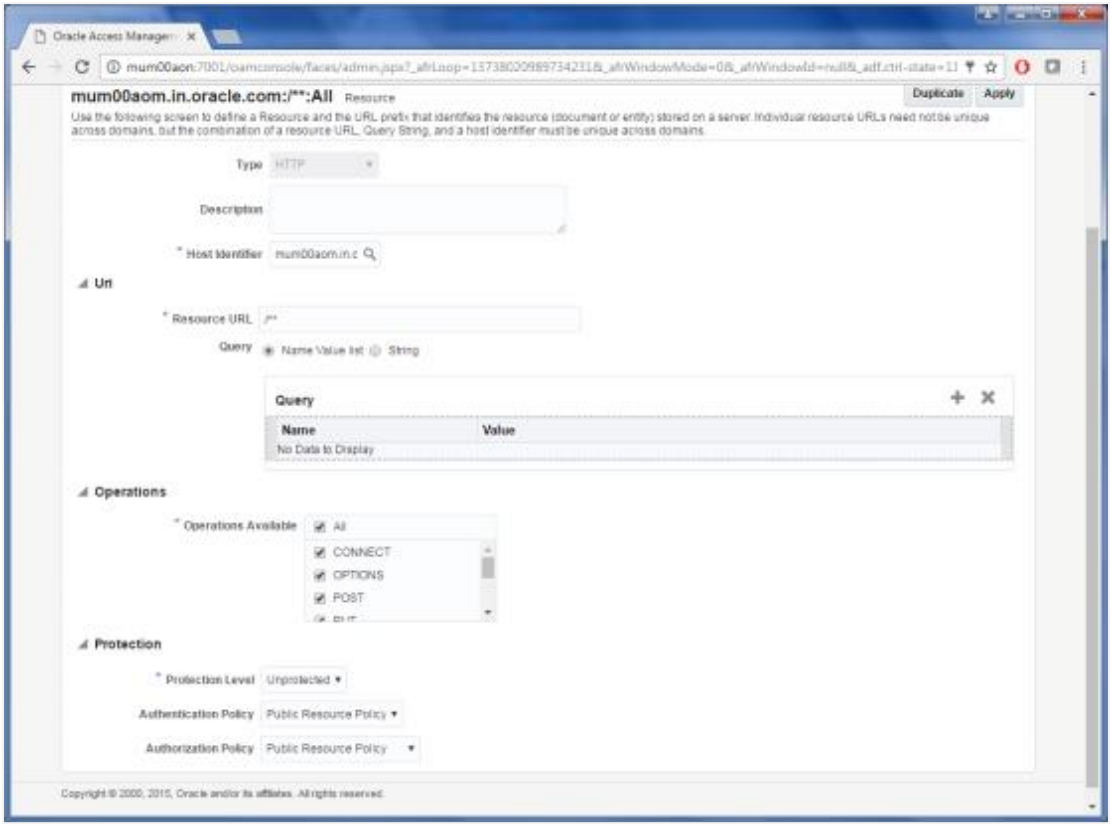


Click on Search



Search Results will show an entry for Resource URL as **/**** which is Protected.

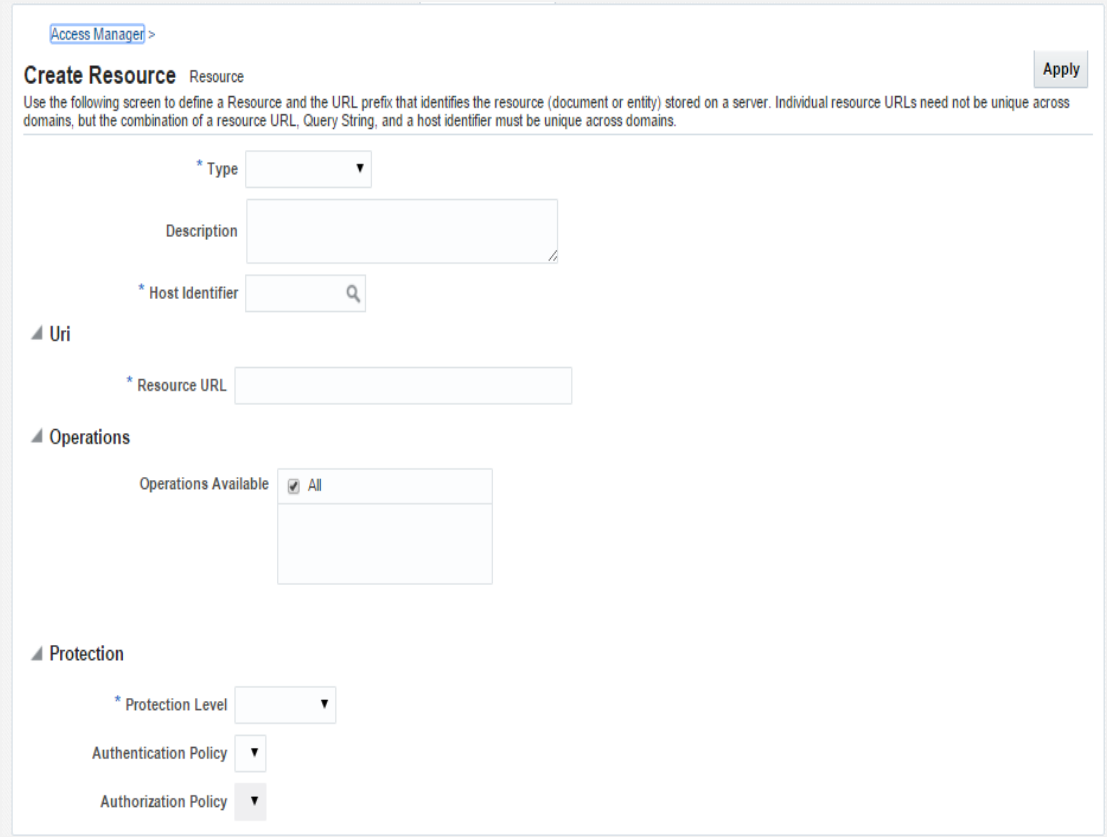
Select the Resource entry and Click the Edit option.



Modify the values of Protection Level, Authentication & Authorization Policy as shown.

Click on Apply to save the changes.

Click on the Create Icon



Specify the following values for each of the fields respectively:

- **Type:** The HTTP type is the default; it covers resources that are accessed using either the HTTP or HTTPS protocol. Policies that govern a particular resource apply to all operations.

  Select Type **HTTP**

- **Description:** An optional unique description for this resource.
- **Host Identifier:** A list of host identifiers is available, which contains all identifiers that were defined as a shared component. You must search and choose a host identifier to assign this resource.
- **Resource URL:** The URL value must be expressed as a single relative URL string that represents a path component of a full URL. For example, ***/pages/****
- **Operations:** Select the required Operation from the table.
- **Protection Level:** Select the Protection Level from the dropdown as per the table.
- **Authentication Policy:** Select the required value from the dropdown.
- **Authorization Policy:** Select the required value from the dropdown.

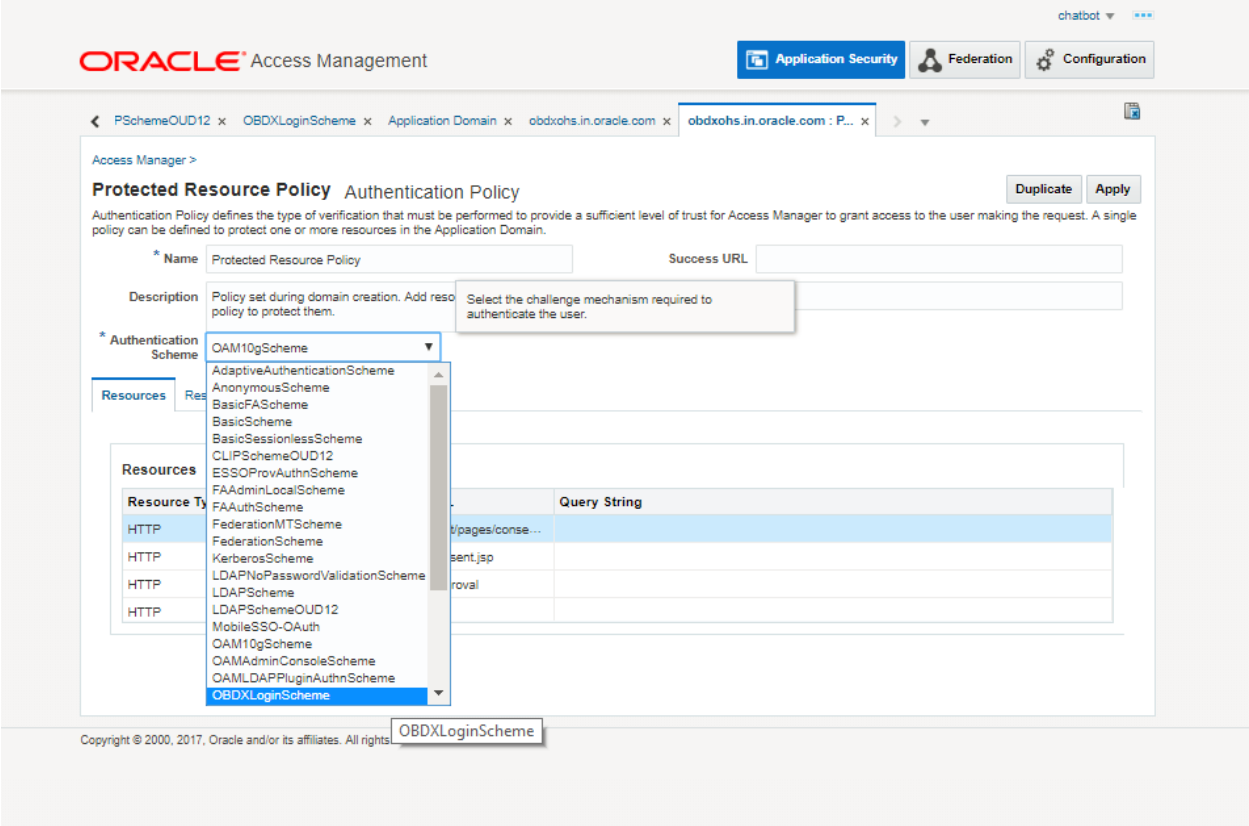
Click on Apply to add the resource.

Perform the above steps to add the URLs listed in the table below:

Resource URLs	Operations	Protection Level	Authentication Authorization Policy
/**	ALL	Unprotected	Public Resource Policy
/pages/*	ALL	Protected	Protected Resource Policy
/oam/pages/consent.jsp	ALL	Protected	Protected Resource Policy
/digx/v1/locations/branches/*	GET	Excluded	-
/digx/v1/locations/atms/*	GET	Excluded	-
/digx/v1/locations*	GET	Excluded	-
/digx/v1/mobileClient/verify	ALL	Excluded	-
/.../*.js	ALL	Excluded	-
/oauth2/rest/approval	ALL	Protected	Protected Resource Policy
/oauth2/rest/**	ALL	Excluded	-
/oam/**	ALL	Excluded	-

Mapping Login Scheme to Application Domain

Navigate to Authentication Policy Tab > Protected Resource Policy > Select the scheme > Apply



.

Select the entry UserIdentityStore1, under OAM ID Stores and Click the Edit option.

.

Home

Section 8.4, “REST API configurations for Mobile Banking (2-Legged OAuth Flows)”

OBDX Mobile application user OAuth for API Based login. Clients are defined in OAM and the same are mapped to access points in OBDX.

To define OAuth Clients in OAM, invoke below REST APIs as OAM does not provide a screen to define the OAuth client. OAM Admin console credentials are required to invoke these APIs.

Domain Creation –

http://mum00aon.in.oracle.com:8001/oam/services/rest/ssa/api/v1/oauthpolicyadmin/oauthidentitydomain

Headers –

Authorization: Basic <Base64 of uid:pwd>

Content-Type: application/json

1. Mobile App

```
{
        "name": " OBDXMobileAppDomain ",
        "tokenSettings": [{
                "tokenType": "ACCESS_TOKEN",
                "tokenExpiry": 300,
                "lifeCycleEnabled": true,
                "refreshTokenEnabled": true,
                "refreshTokenExpiry": 864000,
                "refreshTokenLifeCycleEnabled": true
        }]
}
```

2. Siri

```
{
        "name": " OBDXSiriDomain ",
        "tokenSettings": [{
                "tokenType": "ACCESS_TOKEN",
                "tokenExpiry": 300,
                "lifeCycleEnabled": true,
                "refreshTokenEnabled": true,
                "refreshTokenExpiry": 864000,
                "refreshTokenLifeCycleEnabled": true
        }]
}
```

3. Wearable

```
{
        "name": " OBDXWearDomain",
        "tokenSettings": [{
                "tokenType": "ACCESS_TOKEN",
                "tokenExpiry": 300,
                "lifeCycleEnabled": true,
                "refreshTokenEnabled": true,
                "refreshTokenExpiry": 864000,
                "refreshTokenLifeCycleEnabled": true
```

```
        }]
}
```

4. Snapshot

```
{
        "name": "OBDXSnapshotDomain",
        "tokenSettings": [{
                "tokenType": "ACCESS_TOKEN",
                "tokenExpiry": 300,
                "lifeCycleEnabled": true,
                "refreshTokenEnabled": true,
                "refreshTokenExpiry": 2592000,
                "refreshTokenLifeCycleEnabled": true
        }]
}
```

Resource Server:

http://mum00aon.in.oracle.com:8001/oam/services/rest/ssa/api/v1/oauthpolicyadmin/application

Headers –

Authorization: Basic <Base64 of uid:pwd>

Content-Type: application/json

1. Mobile App

```
{
    "name": "OBDXMobileAppResServer",
    "description": "Resource Server for Mobile",
    "scopes": [{
            "scopeName": "OBDXLoginScope",
            "description": "OBDXLoginScope"
    },
    {
            "scopeName": "ValidateDeviceScope",
            "description": "ValidateDeviceScope"
    }],
    "tokenAttributes": [],
    "idDomain": "OBDXMobileAppDomain",
    "audienceClaim": {}
}
```

2. Siri

```
{
    "name": "OBDXSiriResServer",
    "description": "Resource Servcer for Siri",
    "scopes": [{
            "scopeName": "ValidateDeviceScope",
            "description": "ValidateDeviceScope"
    }],
```

```
    "tokenAttributes": [],
    "idDomain": "OBDXSiriDomain",
    "audienceClaim": {}
}
```

3. Wearables

```
{
        "name": "OBDXWearResServer",
        "description": "Resource Servcer for Wearables",
        "scopes": [{
                "scopeName": "ValidateDeviceScope",
                "description": "ValidateDeviceScope"
        }],
        "tokenAttributes": [],
        "idDomain": "OBDXWearDomain",
        "audienceClaim": {}
}
```

4. Snapshot

```
{
        "name": "OBDXSnapshotResServer",
        "description": "Resource Servcer for Snapshot",
        "scopes": [{
                "scopeName": "ValidateDeviceScope",
                "description": "ValidateDeviceScope"
        }],
        "tokenAttributes": [],
        "idDomain": "OBDXSnapshotDomain",
        "audienceClaim": {}
```

}

Clients:

http://mum00aon.in.oracle.com:8001/ /oam/services/rest/ssa/api/v1/oauthpolicyadmin/client

Headers –

Authorization: Basic <Base64 of uid:pwd>

Content-Type: application/json

1. Mobile App

{

"attributes": [],

"secret": "welcome1",

"id": "2d79e939e0424mobapp8e5fab436fb5581",

"scopes": ["OBDXMobileAppResServer.ValidateDeviceScope",
"OBDXMobileAppResServer.OBDXLoginScope"],

"clientType": "CONFIDENTIAL_CLIENT",

"idDomain": "OBDXMobileAppDomain",

"description": "OBDXMobileAppDomain",

"name": "OBDXMobileAppClient",

"grantTypes": ["PASSWORD", "REFRESH_TOKEN"],

"defaultScope": "OBDXMobileAppResServer.ValidateDeviceScope",

```
        "redirectURIs": [{
                "url": "http://localhost:8080/Sample.jsp",
                "isHttps": false
        }]
}
```

2. Siri

```
{
    "attributes": [],
    "secret": "welcome1",
    "id": "2d79e939e0424sirichat8e5ab43fb5591",
    "scopes": ["OBDXSiriResServer.ValidateDeviceScope"],
    "clientType": "CONFIDENTIAL_CLIENT",
    "idDomain": "OBDXSiriDomain",
    "description": "OBDXSiriDomain",
    "name": "OBDXSiriClient",
    "grantTypes": ["PASSWORD", "REFRESH_TOKEN"],
    "defaultScope": "OBDXSiriResServer.ValidateDeviceScope",
    "redirectURIs": [{
            "url": "http://localhost:8080/Sample.jsp",
            "isHttps": false
    }]
}
```

3. Wearables

```
{
    "attributes": [],
    "secret": "welcome1",
    "id": "2d79e939e0424wearable8e5ab43fb5591",
    "scopes": ["OBDXWearResServer.ValidateDeviceScope"],
    "clientType": "CONFIDENTIAL_CLIENT",
    "idDomain": "OBDXWearDomain",
    "description": "OBDXWearDomain",
```

```
    "name": "OBDXWearClient",
    "grantTypes": ["PASSWORD", "REFRESH_TOKEN"],
    "defaultScope": "OBDXWearResServer.ValidateDeviceScope",
    "redirectURIs": [{
            "url": "http://localhost:8080/Sample.jsp",
            "isHttps": false
    }]
}
```


4. Snapshot


```
{
    "attributes": [],
    "secret": "welcome1",
    "id": "2d79e939e0424snapshot8e5ab43fb5591",
    "scopes": ["OBDXSnapshotResServer.ValidateDeviceScope"],
    "clientType": "CONFIDENTIAL_CLIENT",
    "idDomain": "OBDXSnapshotDomain",
    "description": "OBDXSnapshotDomain",
    "name": "OBDXSnapshotClient",
    "grantTypes": ["PASSWORD", "REFRESH_TOKEN"],
    "defaultScope": "OBDXSnapshotResServer.ValidateDeviceScope",
    "redirectURIs": [{
            "url": "http://localhost:8080/Sample.jsp",
            "isHttps": false
    }]}
```


8.4 Creating the Attributes, Object Class, Users, Groups and Adding Optional Attributes on LDAP Server

1. **To create Groups**

- Copy the "**groups.ldif**" file from **<OBDX BASE Installer zip>installables/oud** directory to a location on the server where OUD is installed and switch to the following directory:

  cd <Oracle_Home>/Oracle_OUD1/bin

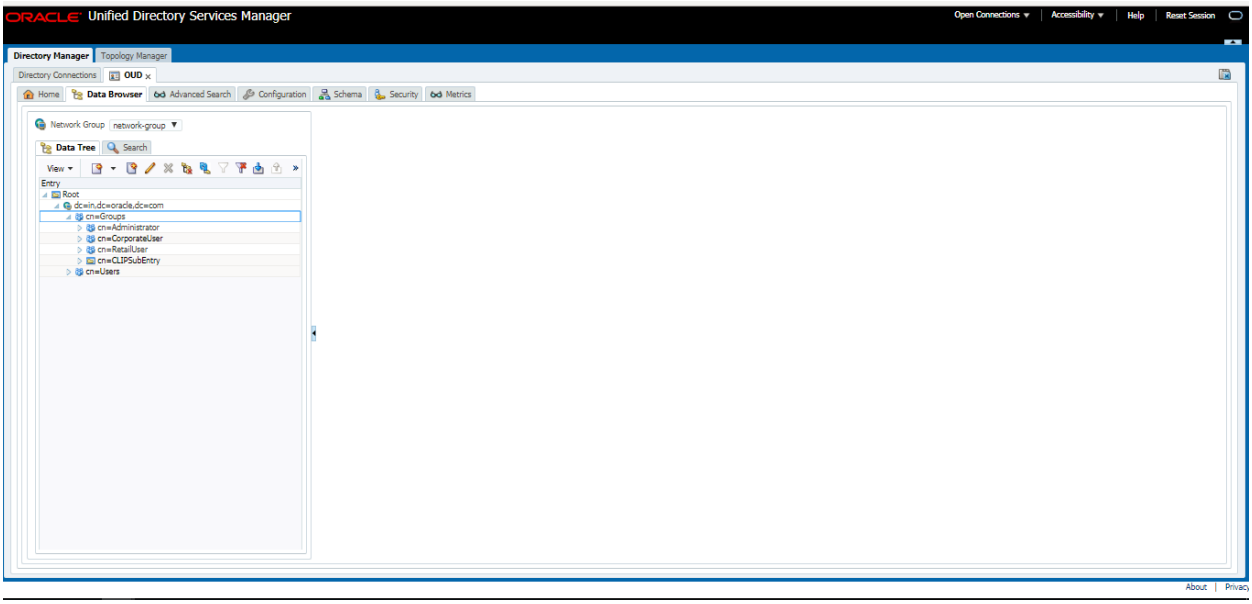
- Now, execute the below command:

  ./ldapmodify -h localhost -p <ldap_port> -D "ldap_user" -w <ldap_password> -a -f <file_location>/usergroup.ldif

  OR (using SSL)

./ldapmodify -h localhost -p <ldap_port> -D "ldap_user" -w <ldap_password> -a -f <file_location>/usergroup.ldif --useSSL

- Login to OUDSM Console. E.g. ***http://<hostname>:<port>/oudsm*** and under the ***Data Browser*** tab check if the groups are created.

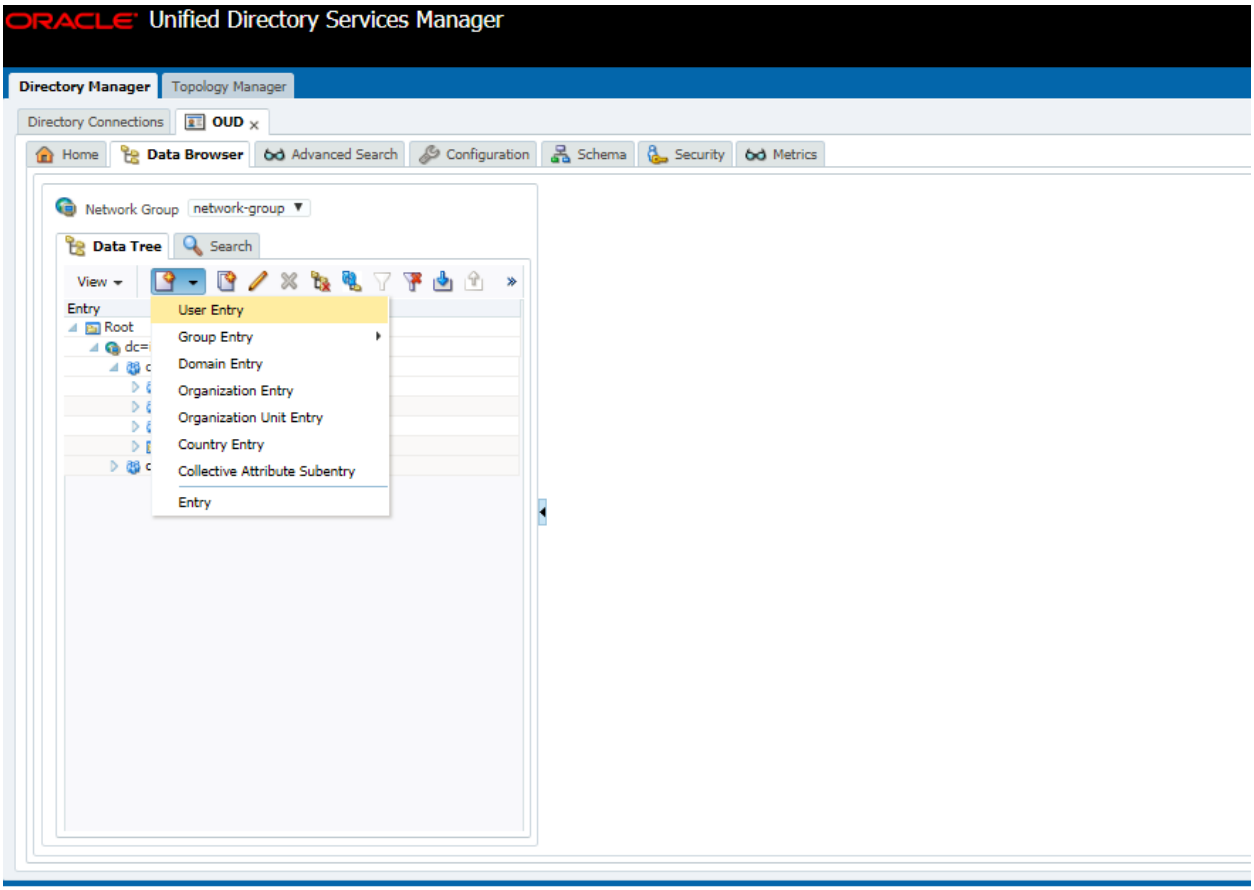


2. <u>To create User and mapping it to the Group</u>

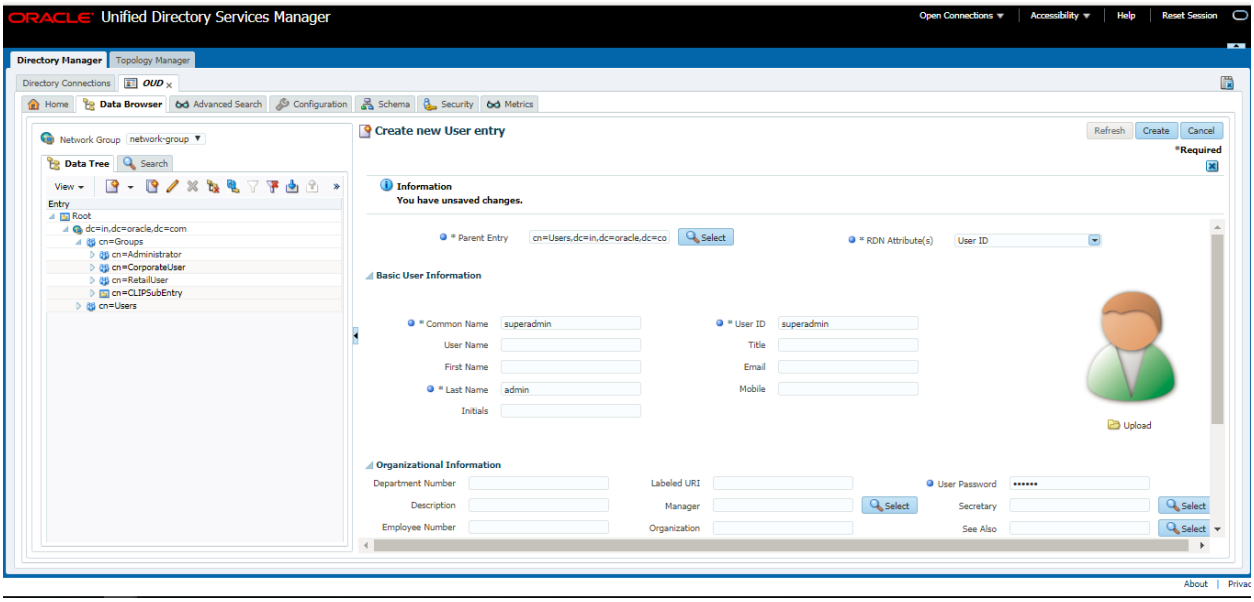
- Login to ODSM Console using required credentials. Post login you should see below screen.

  E.g. ***http://<hostname>:<port>/oudsm***.

- Under the Data Browser tab, click on the Add icon



- Select ***User Entry*** from the list.

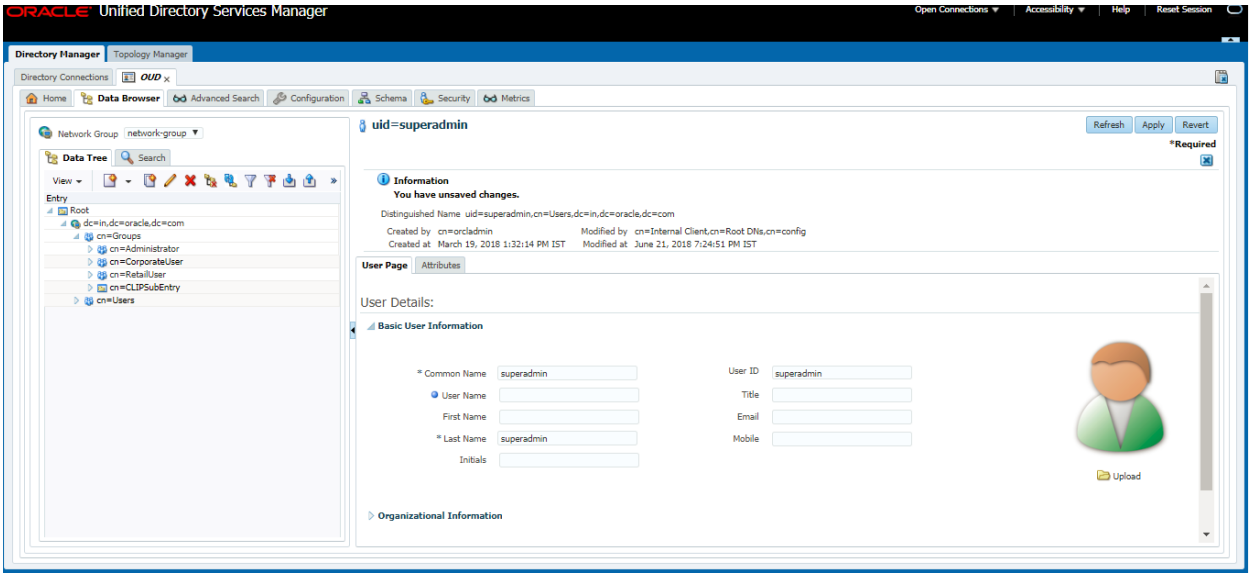


- Now, uncheck ***Common Name*** from the ***RDN Attributes*** dropdown list.

- And, Check the ***User ID*** Attribute checkbox.

- Add the values in the mandatory fields ***Common Name, Last Name, User ID and User Password.***

- Click on **Create** and the user entry will be created.

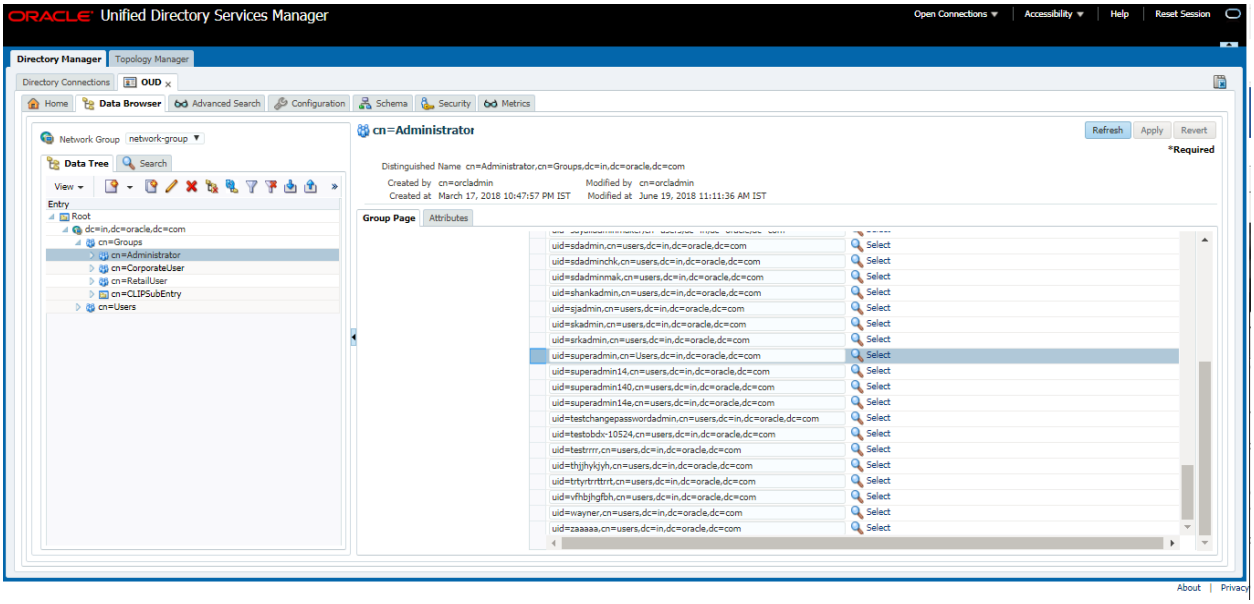


- Now, expand the Groups tab.

- Select ***Administrator*** Group.

- Expand ***Member Information*** and click on ***Add*** button.

- Enter the entry of the user created in the previous steps.



- Click on Apply to save the changes.

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9. Oracle Business Intelligence Publisher Installation

To install Oracle Business Intelligence Installation click here.

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