Oracle Banking Digital Experience

Installer Pre-Requisite Setup Manual Release 16.2.0.0.0

October 2016

Part No. E79009-01



Oracle Banking Digital Experience Installer Pre-Requisite Setup Manual October 2016

Oracle Financial Services Software Limited Oracle Park Off Western Express Highway Goregaon (East) Mumbai, Maharashtra 400 063 India Worldwide Inquiries: Phone: +91 22 6718 3000 Fax:+91 22 6718 3001

www.oracle.com/financialservices/

Copyright © 2016, Oracle and/or its affiliates. All rights reserved.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

This software or hardware and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

Table of Contents

5
6
23
41
52
73
109

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 OFSS Support

https://support.us.oracle.com

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.

1.5 Related Information Sources

For more information on Oracle Banking Digital Experience Release 16.2.0.0.0, 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 16.2.0.0.0 Installer.

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

2.1 Software List

Software Name	Version	Links/Location/eDelivery File	Mandatory Software
Oracle Database	12c	http://www.oracle.com/technetwork/d atabase/enterprise- edition/downloads/index.html	Y
Oracle Java Development Kit	1.8	http://www.oracle.com/technetwork/j ava/javase/downloads/jdk8- downloads-2133151.html	Y
Oracle WebLogic	12.1.3.0.0	http://www.oracle.com/technetwork/ middleware/weblogic/downloads/wls- main-097127.html	Y
Oracle Weblogic Infrastructure	12.1.3.0.0		Y
Oracle Web Tier Suite	11.1.1.9.0	http://www.oracle.com/technetwork/j ava/webtier/downloads/index2- 303202.html	Y
Oracle Webgates Suite	11.1.2.3.0	http://www.oracle.com/technetwork/ middleware/id-mgmt/downloads/oam- webgates-2147084.html	Y
Oracle Installer – WebLogic	10.3.6.0	http://www.oracle.com/technetwork/ middleware/weblogic/downloads/wls- main-097127.html	Ν
Oracle Java Development Kit	1.7	http://www.oracle.com/technetwork/j ava/javase/downloads/java-archive- downloads-javase7-521261.html#jdk- <u>7u80-oth-JPR</u>	Y
Oracle Identity and Access Management Suite (IAM)	11.1.2.3.0	http://www.oracle.com/technetwork/ middleware/id-mgmt/downloads/oid- 11gr2-2104316.html	N
LDAP (OUD/OpenLDAP)	11.1.2.3.0	http://www.oracle.com/technetwork/ middleware/id-mgmt/downloads/oid- 11gr2-2104316.html	N

3. Installing and Configuring Weblogic 12c with JRF

This chapter describes the steps for installing the Weblogic Server version 12.1.3.0.0 along with the components of Java Required Files (JRF) in the following sections respectively:

- Section 3.1, "Installing Stand-alone Weblogic"
- Section 3.2, "Extending the Weblogic environment with JRF"

3.1 Installing Stand-alone Weblogic

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"
- Section 3.1.3, "Verifying the Installation"

3.1.1 Pre-requiste - Installing Java 1.8

- Obtain the Java tarball pack from the Oracle Java Downloads. Download *jdk-8u101-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-8u101-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_101

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

3.1.2 Installing Weblogic

- Obtain Weblogic 12.1.3 JAR from the Oracle Fusion Middleware Downloads. Download *fmw_12.1.3.0.0_wls.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_12.1.3.0.0_wls.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 Next to continue.

Specify Installation Location Screen

101-10-0	POSIDA MIDDLE NAME
<u>vveicome</u>	Qracle Home.
Installation Location	/scratch/Oracle/Niddleware 👻 Browse
Installation Type	Feature Sets Installed At Selected Oracle Home: View
Prerequisite Checks	
Installation Summary	
Installation Progress	
Installation Complete	
	Oracle Home may only contain alphanumeric, underscore (_), hyphen (-) or dot(.) characters and it must begin with alphanumeric character.

Specify the following installation locations:

Oracle Middleware Home

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

Specify Installation Type Screen



Following are the installation types:

- Weblogic Server
- Coherence
- Complete with Examples

Select Weblogic server and Click Next to continue.

Prerequisite Checks Screen

Oracle Fusion Middleware 12c W	/ebLogic Se	ver and Coherence Installation - St	ep 4 of 8		- 🗆 🗙
Prerequisite Checks					
Ψ Welcome	1				
Installation Location			100%		
Installation Type		Chapting operating system certificati			
Prerequisite Checks		Checking operating system certification	b the installer		
y Security Updates	<u> </u>	Crecking Java version used to launc	in the installer		
Installation Summary					
Installation Progress					
Installation Complete					
	Stop	Rerun Skip	View Succe	ssful <u>T</u> asks	View Log
	B- Che	cking operating system certification cking Java version used to launch the	installer		
Нер			(< Back Next > Er	ish Cancel

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.

If you want to ignore the error or warning messages and continue with the installation, click Continue.

To stop prerequisite checking for all components, click Abort.

Specify Security Updates Screen

ecurity Updates		
Welcome Installation Location	-	
Installation Type		
Prerequiste Checks	Provide your email address to be i and initiate configuration manager.	nformed of security issues, install the product View details.
Installation Summary	Email	
Installation Progress		casier for you if you use your My Gracie Support email address/username
Installation Complete	I wish to receive security update	tes via My Oracle Support
	Wy Oracle Support Password:	
	**	
	and a set	

Uncheck the box stating "I wish to receive security updates via My Oracle Support" Click on Next.

Specify Security Updates Screen

ecurity Updates				
Welcome Installation Location Installation Type Prerequisite Checks Security Updates	Provide your email address to be in and initiate configuration manager.	nformed of security issues, instal <u>View details</u>	the product	
Installation Progress Installation Complete	My Oracle Support Username/ You have not prove Do you wish to rem issues in your conf	Easier for you if you use your M Email Address Not Specified ded an email address. ain uninformed of critical security iguration?	y Oracle Support email add	ress/username.

The user will now be prompted "Do you wish remain uninformed of critical security issues in your configuration?"

Select Yes and Click on Next to proceed.

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

Oracle Fusion Middleware 12c V	VebLogic Server and Coherence Installation - Step 7 of 8
Installation Progress	FUSION MIDDLEWARE
Y Welcome	
Installation Location	100%
Installation Type	Prenare
Prerequisite Checks	
Security Updates	Generating Libraries
Installation Summary	Performing Substitutions
Installation Progress	✓ Linking
Installation Complete	✓ Setup
	Saving the inventory
	Post install scripts
	View Messages View Log View Log
	Hardware and Software Engineered to Work Together
Help	< <u>Back</u> <u>Next></u> <u>Finish</u> Cancel

This screen shows the progress of the installation.

If you want to quit before the installation is completed, click Cancel. Doing so will result in a partial installation; the portion of the software that was installed on your system before you click Cancel will remain on your system, and you will have to remove it manually.

Installation Complete Screen

Installation Complet	e		
Welcome Installation Location Installation Type Prerequisite Checks Security Updates Installation Summary Installation Progress Installation Complete	 Install Oracle Fusion Middleware 12c WebLog Installation Location Oracle Home Location: /scratch/Oracle/ Log File Location: /tmp/OraInstall2016- Milg Feature Sets Installed Successfully Thirdparty JDBC Drivers 12.1.3.0.0 Third Party Jackson 12.1.3.0.0 Third Party Jackson 12.1.3.0.0 Third Party Jersey 1.18.0.0.0 Third Party Maven Apache 3.0.5.0.0 Administration Console Additional Lang CIE WLS Config 12.1.3.0.0 OPatch 13.2.0.0 Core Application Server 12.1.3.0.0 Web 2.0 HTTP Pub-Sub Server 12.1.3.0.0 WebLogic SCA 12.1.3.0.0 	ic Server and Coherence /Middleware 09-21_05-35-14PM/install2016-09- uage Help Files 12.1.3.0.0	21_05-35-14P
	Next Steps: Automatically Launch the Configuration Wizard ** Oracle Fusion Middleware 12c WebLogic Server and C	oherence installation completed successf	ulty

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 to dismiss the screen.

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.

3.2 Extending the Weblogic environment with JRF

Java Required Files (JRF) consists of those components not included in the WebLogic Server installation that provide common functionality for Oracle business applications and application frameworks. It consists of a number of independently developed libraries and applications that are deployed into a common location.

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

- Section 3.2.1, "Installing JRF components"
- Section 3.2.2, "Verifying the Installation"

3.2.1 Installing JRF Components

Obtain FMW 12.1.3 Infrastructure JAR from the Oracle Fusion Middleware Downloads. Download *fmw_12.1.3.0.0_infrastructure.jar* file to a directory.

Now to start the installer, go to the directory where you downloaded the file and execute the below command:

```
java – jar <Path>/fmw_12.1.3.0.0_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 Next to continue.

Specify Installation Location Screen

nstallation Location			
Welcome	Qracle Home:		
Installation Location	/scratch/Oracle/Middleware		• Browse
Installation Type Prerequisite Checks	Feature Sets Installed At Selected Oracle Home: View		
Installation Summary			
Installation Progress			
Installation Complete			
	Oracle Home may only contain alphanumeric, underscore (_), hyp alphanumeric character.	hen (-) or dob(.) characters and	d it must begin with

Specify the following installation locations:

• Oracle Middleware Home

The absolute path to the directory where WebLogic Server is already installed Click Next to continue.

Specify Installation Type Screen

Installation Type		
	Eusion Middleware Infrastructure Fusion Middleware Infrastructure With Examples Oracle Fusion Middleware 12c Infrastructure 12.1.3.0.0 Core Secure	4
Installation Progress Installation Complete	Core Application Server 12.1.3.0.0 Coherence Product Files 12.1.3.0.0 Web 2.0 HTTP Pub-Sub Server 12.1.3.0.0 WebLogic SCA 12.1.3.0.0 WebLogic Client Jars 12.1.3.0.0 Oracle WebLogic Communication Services 12.1.3.0.0 Cacle WebLogic Communication Services 12.1.3.0.0 Cacle WebLogic Communication Services 12.1.3.0.0 Cacle WebLogic Communication Services 12.1.3.0.0 CE WLS Config 12.1.3.0.0 Enterprise manager 12.1.3.0.0 Database Support Thirdparty JDBC Drivers 12.1.3.0.0 Open Source Components Third Party Jackson 12.1.3.0.0 Third Party Jackson 12.1.3.0.0	

Following are the installation types:

- Fusion Middleware Infrastructure
- Fusion Middleware Infrastructure with Examples

Select Fusion Middleware Infrastructure and Click Next to continue.

Prerequisite Checks Screen

Oracle Fusion Middleware 12c Ir	nfrastructur	e Installation - Step 4 of 7	_ _ ×
Prerequisite Checks			RE
Y Welcome	1		
Installation Location		100%	
Installation Type		Charling aparating quater partition	
Prerequisite Checks		Checking operating system cerunication	
 Installation Summary 	I –	Circowing yava version back to admon the installer	
Installation Progress			
Unstallation Complete			
	Stop	Berun Skip View Successful Tasks	View Log
	- √Ch	ecking operating system certification ecking Java version used to launch the installer	
Heb		C Bank Next >	Finish Cancel
		- Each How >	Country Country

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.

If you want to ignore the error or warning messages and continue with the installation, click Continue.

To stop prerequisite checking for all components, click Abort.

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

Oracle Fusion Middleware 12c	Infrastructure Installation - Step 6 of 7 ORACLE	
Welcome Installation Location	100%	
Installation Type Prerequisite Checks Installation Summary Installation Progress Installation Complete	 Prepare Copy Generating Libraries Performing String Substitutions Linking Setup 	
	Saving the inventory Post install scripts	
	View Hessages	View Log d Software
Нер	Seck Next>	Einish Cancel

This screen shows the progress of the installation.

If you want to quit before the installation is completed, click Cancel. Doing so will result in a partial installation; the portion of the software that was installed on your system before you click Cancel will remain on your system, and you will have to remove it manually.

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 to dismiss the screen.

3.2.2 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 exists or not.

4. Oracle Webtier 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:

- <u>Oracle HTTP Server:</u> 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.
- <u>Oracle Process Manager and Notification Server (OPMN)</u>: 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.
- <u>Using Oracle Enterprise Manager Fusion Middleware Control:</u> 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 (Webtier)

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. By default, this directory is named webtier.

To start the installer, go to the directory where you unpacked the archive file and switch to the Disk1 directory. Now, start the installer using the below command:

./runInstaller – jreLoc Java_Home/jdk

Note: You must enter the absolute path of the JRE folder located in this JDK when launching the installer.

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.

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.

Table: Inventory Directory and Group Screens

Now, follow the instructions as shown below to install Webtier,

Specify Inventory Directory Screen

😹 Oracle Fusion Middleware 11g Web	Tier Utilities Installation
Specify Inventory direct	tory ORACLE 118
You are starting your first installation on th installer files. This is called the "inventory d up subdirectories for each product to cont	his host. As part of this install, you need to specify a directory for lirectory". Within the inventory directory, the installer automatically sets ain inventory data and will consume typically 150 Kilobytes per product.
Enter the full path of the inventory director	у.
You can specify an Operating System group	p that has write permissions to the above directory
Inventory <u>D</u> irectory:	/home/Oracle/oralnventory <u>B</u> rowse
Operating System Group name:	g900 👻
Help	Qk Cancel

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/oralnventory.

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.

Inventory Location Confirmation Screen

🚵 Inventory Location Confirmation Dialog	\mathbf{X}
Certain actions need to be performed with root performed. Please execute the script /home/khwang/oralnventory/createCentralInver window and then press "Ok" to coninue the install If you do not have the root privileges and wish to "Continue installation with local inventory" option Continue Installation with local inventory	ivileges before the install can tory.sh nowfrom another continue the install select the
Help	<u>O</u> k Cancel

This screen appears for UNIX systems only; you are asked to run the inventory_directory/createCentralInventory.sh script as root.

If you do not have root access on this system but want to continue with the installation, select Continue installation with local inventory.

Click Ok to continue.

Welcome Screen

Welcome	FUSION MIDDLEWARE 11
Welcome Install Software Updates Install and Configure Prerequisite Checks Installation Location Security Updates Configure Components Specify WebLogic Doma Specify Component Det Configure Ports Installation Summary Installation Progress Configuration Progress	 Welcome to Oracle Fusion Middleware 11g Web Tier Utilities Installer version 11.1.1.9.0. This installer can be used to install a new Web Tier Oracle Home or to update an existing Web Tier Oracle Home. For additional information and installation instructions, please refer to the Oracle Fusion Middleware Installation Guide for Web Tier Utilities and the Oracle Fusion Middleware Patching Guide. Click Help at any time for context-sensitive help. Click Next to begin the installation. Copyright (c) 1999, 2015, Oracle and/or its affiliates. All rights reserved.
Help	< <u>Back</u> Next > Einish Cance

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

h	nstall Software U	pdates
Ŷ	Welcome	Skip Software Updates
•	My Oracle Support Upd	Search My Oracle Support for Updates
*	Install and Configure	Us <u>e</u> r Name:
4	Prerequisite Checks	Password:
6	Installation Location	Proxy Settings Test Connection
ļ	Security Updates	Search Local Directory for Updates
*	Configure Components	Search For Updates
4	Specify WebLogic Domain	
¢	Specify Component Details	
þ	Configure Ports	
4	Installation Summary	
4	Installation Progress	Allows user to search for and download software updates from My Oracle Support using My Oracle Support Account user name and password Click "Test Connection"
4	Configuration Progress	test the credentials.
6	Installation Complete	
•		

Install Software Updates Screen

Select "Skip Software Updates" and Click Next to continue.

Select Installation Type Screen



The following are the Installation Types available.

 Install and Configure: This option will install the product binaries in an Oracle Home directory, and create and configure a working instance in an Oracle Instance directory.

If you choose to install Oracle Web Tier, and associate it with the Fusion Middleware (EM) Control, then you should be able to begin configuring and managing your products using Enterprise Manager.

- Install Software Do Not Configure: This option only installs the software binaries in an Oracle Home directory. You must then manually run the Configuration Tool from your Web_Tier_ORACLE_HOME/bin directory on UNIX, and Web_Tier_ORACLE_HOME/bin directory on Windows, to configure your products before you can use them. This option can be used to quickly create multiple instances of the software that share a common disk.
- Select Install and Configure.

Prerequisite Checks Screen

Prerequisite Che	ecks	-0		<u>e</u> ware 11
Welcome	Selection	Check	Progress	Status
Skip Software Updates	×	Checking operating system certific	100%	×
L Install Only	V	Checking recommended operating	100%	×
Prerequisite Checks	V	Checking kernel parameters	100%	×
Installation Location	×	Checking Recommended glibc ver	100%	× .
Security Updates	v	Checking physical memory	100%	×
Installation Summary	V	Checking for LD_ASSUME_KERNEL	100%	×
 Installation Progress Installation Complete 	4	Abort	<u>R</u> etry	<u>C</u> ontinue
		hecking operating system certification hecking recommended operating syst hecking kernel parameters hecking Recommended glibc version) em packages	
Help		< Back	Next > Finish	Cance

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.

If you want to ignore the error or warning messages and continue with the installation, click Continue.

To stop prerequisite checking for all components, click Abort.

🗢 Oracle Fusion Middleware 11g Web Tier Utilities Installation - Step 5 of 14 📃 🔲 🔀			
Specify Installation Location			
Welcome			
Skip Software Opdates			
Install and Configure			
Prerequisite Checks			
Installation Location			
Security Updates	Oracle <u>M</u> iddleware Home:	C:\Oracle\Middleware	
Configure Components	Oracle Home Directory:	Oracle_WT1	
Specify WebLogic Domain			
Specify Component Details			
Configure Ports			
Installation Summary			
Installation Progress	An Application Server	must already be installed.	
Configuration Progress			
Installation Complete			
		< Back Next > Einish Cancel	

Specify the following installation locations:

- Oracle Middleware Home: The absolute path to the directory where WebLogic Server was installed.
- Oracle Home Directory: The directory name for your Oracle home:
 - You can specify a pre-existing directory that you want to use as the Oracle home; the directory must be an empty directory.
 - You can specify the name of a new directory that will be created for you inside the Middleware home.

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 Web_Tier_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 (\\).

Specify Security Updates Screen

🖸 Oracle Fusion Middleware 11g Web Tier Utilities Installation - Step 6 of 14			
Specify Security U	pdates		
 Welcome Skip Software Updates Install and Configure Prerequisite Checks Installation Location Security Updates Configure Components Specify WebLogic Domain Specify Component Details Configure Ports Installation Summary Installation Progress Configuration Progress 	Provide your email address to be informed of security issues, install the product and initiate configuration manager. <u>View details</u> . Email:		
	< <u>Back</u> <u>Next</u> > <u>Finish</u> Cancel		

Enter your E-mail address if you want to receive the latest product information and security updates. If you have a My Oracle account and want to receive updates via this mechanism, select I wish to receive security updates via My Oracle Support, then enter your account password.

If you do not want to register for security updates, leave all the fields on this screen blank. You will be prompted to confirm your selection with the following screen:

Click Yes to confirm that you do not want to register for any security updates.

Configure Components Screen

Configure Compone	ents ORACLE FUSION MIDDLEWARE
Welcome Skip Software Updates Install and Configure Prerequisite Checks Installation Location Security Updates Configure Component: Specify WebLogic Domain Specify Component Details Configure Ports Installation Summary Installation Progress Configuration Progress	Oracle HTTP Server Oracle Web Cache Oracle Process Manager Notification (OPMN) is always configured Associate Selected Components with WebLogic Domain
Help	< Back Next > Erish Cano

This screen shows the products and components that are available for installation and configuration. Select the component(s) you want to configure. Oracle Process Manager Notification (OPMN) is configured by default.

Uncheck Associate Selected Components with WebLogic Domain.

Specify	Component	Details	Screen
---------	-----------	---------	--------

🗢 Oracle Fusion Middleware 11g Web Tier Utilities Installation - Step 9 of 15			
Specify Component Details			
	Instance Home Location: Instance Name: OHS Component Name: Web Cache Component Name:	Ie_WT1\instances\instance1 Browse instance1 ohs1 webcache1	
Help		< <u>B</u> ack <u>N</u> ext > <u>Finish</u> Cancel	

Specify the following component details:

- Instance Home Location: The absolute path to the directory where your Oracle Instance will reside. This is where application configuration files reside, and where the application process runs from. Runtime components write only to this location.
- Instance Name: Specify the unique name of your Oracle Instance. The Oracle Instance name may only contain alphanumeric and underscore (_) characters, it must begin with an alphabetic (a-z or A-Z) character, and must be 4 to 30 characters in length.
- OHS Component Name: Specify the name for your Oracle HTTP Server (OHS) component. This name may only contain alphanumeric and underscore (_) characters, and must be 4 to 30 characters in length.
- Web Cache Component Name: Specify the unique name of your Web Cache component. This name may only contain alphanumeric and underscore (_) characters, it must begin with an alphabetic (a-z or A-Z) character, and must be 4 to 30 characters in length.

Oracle Fusion Middleware 11g Web Tier Utilities Installation - Step 10 of 15 Web Cache Administrator Password		
Welcome Skip Software Updates Install and Configure Prerequisite Checks Installation Location Security Updates Configure Components Specify WebLogic Domain Specify Component Details Web Cache Administra Configure Ports Installation Summary Installation Progress Configuration Progress Lelp	Web Cache Administrator Password: Confirm Password: Valid passwords are 5 to 30 characters long, must begin with an alphabetic character, use only alphanumeric, underscore (_), dollar (\$) or pound (#) characters and include at least one number. < Back Next > Finish Cancel	

Web Cache Administrator Password Screen

Specify a new password for your Web Cache administrator. Valid passwords are 5 to 30 characters long, must begin with an alphabetic character, use only alphanumeric, underscore (_), dollar (\$) or pound (#) characters and include at least one number.

Configure Ports Screen

🖸 Oracle Fusion Middleware 11g Web Tier Utilities Installation - Step 11 of 15 🛛 🗐 🗖 🔀		
Configure Ports	EUSION MIDDLEWARE 118	
 Welcome Skip Software Updates Install and Configure Prerequisite Checks Installation Location Security Updates Configure Components Specify WebLogic Domain Specify Component Details Web Cache Administrator Configure Ports Installation Summary Installation Progress Configuration Progress 	 Auto Port Configuration Specify Ports using Configuration file File name: C:\Documents and Settings\skshanth\staticports. Browse ✓iew/Edit File 	
	< <u>B</u> ack <u>N</u> ext > <u>Finish</u> Cancel	

Select Auto Port Configuration if you want the installer to automatically assign the default ports to the components.

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.
Installation Progress Screen

Oracle Fusion Middleware	11g Web Tier Utilities Installation - Step 13 of 15 📃 🗖 🗙
Installation Progre	ss ORACLE 118
Specify Component Details	Progress 27% Setting up
Web Cache Administrator	Install Log C:\Program Files\Oracle\Inventory\logs\install2011-09-27_05-35-54PM.log
Configure Ports	Setting Up: Oracle Ice Browser 11.1.1.6.0 Setting Up: Oracle AS Common Toplevel Component 11.1.1.2.0 Setup Completed
Installation Progress	Saving the inventory. It may take few minutes.
Oracle Fu	usion Middleware Extreme Productivity
	ORACLE'
Help	< <u>B</u> ack <u>N</u> ext > <u>Finish</u> Cancel

This screen shows the progress of the installation.

If you want to quit before the installation is completed, click Cancel. Doing so will result in a partial installation; the portion of the software that was installed on your system before you click Cancel will remain on your system, and you will have to remove it manually.

Configuration Progress Screen

Oracle Fusion Middleware	11g Web Tier Utilities Installation - Step 14 of 15	
Configuration Proo		MIDDLEWARE 11 8
V Welcome	Configuration Tools	
Skip Software Updates	Name	Progress
Install and Configure	E Web Tier Configuration	25%
Prerequisite Checks	Create and Start AS Instance (instance101)	Success
Installation Location	Create and Start OHS Component (ohs1)	In Progress
Security Updates	Create and Start Web Cache Component (webcack Create Shortcuts	Recommended Recommended
Configure Components		
Specify WebLogic Domain		
Specify Component Details	Abort Retry	Continue
Veb Cache Administrator	Configuration Log Location: C:\Program	
Configure Ports	Files\Oracle\Inventory\logs\install2011-09-27_05-35-54PM.log	
Installation Summary	🖅 📲 Web Tier Configuration	
Installation Progress		
Configuration Progress		
Help	< Back	Einish Cancel
		liili

This screen shows you the progress of the component configuration.

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.

If you want to ignore the error or warning and continue with the configuration, click Continue.

Click Abort to stop prerequisite checking for all components.

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

Installation Complete Screen

Oracle Fusion Middleware	11g Web Tier Utilities Installation - Step 15 of 15 📰 🔲 🔀
Installation Compl	ete ORACLE 118
Skip Software Updates	Type: Install and Configure
Install and Configure	□ Location: C:\Oracle\Middleware\Oracle_WT1
Prerequisite Checks	Oracle Instance Name: instance101
Installation Location	Oracle Instance Home: C:\Oracle\Middleware\Oracle_WT1\instances\instan Associate With Domain Case
Security Updates	Disk Space
Configure Components	Oracle HomeOracle Home Size: 796 955 MB
Specify WebLogic Domain	
Specify Component Details	
Web Cache Administrator	Instance Home Size: 17.165 MB
O Configure Ports	
Installation Summary	Save Installation Summary: Save
Installation Progress	
Configuration Progress	Oracle Fusion Middleware 11g Web Tier Utilities installed and configured successfully.
🥥 Installation Complete 🖵	
 Image: Image: Ima	
Help	< <u>B</u> ack <u>N</u> ext > <u>Finish</u> Cancel

This screen summarizes the installation that was just completed.

At the end of the summary information, there is a section called Accessible URLs which give you the links needed to access the configured Oracle HTTP Server and Oracle Web Cache. You should make a note of these URLs so you can access these pages when you need to.

You can also save this summary information to a file for future reference by clicking Save. You will be prompted to specify a name and location for your summary file.

Click Finish to dismiss the screen.

4.2 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. On UNIX systems, if you do not know the location of your Oracle Inventory directory, you can find it in the WebTier_ORACLE_HOME/oraInst.loc file.
- Verifying the Domain Server Logs: Check the domain server logs, which are located in the servers directory inside the domain home directory. For example:

Web_Tier_ORACLE_HOME/user_projects/domains/domain_name/servers/server_n ame

 Verifying the OPMN Status: Run the opmnctl status command from the INSTANCE_HOME/bin directory on UNIX, in your instance home location. For example:

./opmnctl status

Processes in Instance: instance2

ias-component	process-type	pid	status
webcache1	WebCache-admin	24057	Alive
webcache1	WebCache	24056	Alive
ohs1	OHS	23890	Alive

This information shows the components configured for this installation. The status Alive means that the component is up and running.

Checking the Browser URLs

Run the opmnctl status -I command from the INSTANCE_HOME/bin directory on UNIX, and INSTANCE_HOME\bin directory on Windows, in your instance home location to obtain a list of ports used by the components. For example:

ias- comp onent	proce ss- type	pid	status	uid	memused	uptime	ports
webca che1	WebC ache- admin	24057	Alive	1067146 469	43712	14:43:29	http_admin: 7799
webca che1	WebC ache	24056	Alive	1067146 468	64072	14:43:29	http_stat:78 00,http_inval idation:7801, https_listen: 7802,http_lis ten:7798
ohs1	OHS	23890	Alive	1067146 467	50260	14:43:39	https:9999,h ttps:4447,htt p:7777

./opmnctl status -l

Use the port numbers in this display to point your browser to the appropriate pages. Use the format:

http://system_name:port_number

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, "Installing and 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"

5.1 Installing and Configuring Oracle HTTP Server WebGate

Obtain Oracle HTTP Server Webgate software from the Oracle Fusion Middleware Downloads. Download webgate.zip file (version 11.1.2.3.0) to a directory, and unpack the downloaded archive that contains the installer. By default, this directory is named webgate.

To start the installation wizard, perform the following steps:

- Extract the contents of the WebGate.zip file to a directory. By default, this directory is named WebGate.
- Go to the Disk1 directory under the WebGate folder.
- Run the following command:

./runInstaller -jreLoc Java_Home/jdk

Note : When you install Oracle HTTP Server, the jdk directory is created under the WebTier_Home directory. You must enter the absolute path of the JRE folder located in this JDK when launching the installer.

After the Installer starts, the Welcome screen is displayed. Proceed with the installation by referring to the section "Installation Flow and Procedure of Oracle HTTP Server 11g WebGate" for installing Oracle HTTP Server 11g WebGate for Oracle Access Manager.

To install Oracle HTTP Server 11g WebGate for Oracle Access Manager, follow the instructions as shown below:

Specify Inventory Directory Screen

📓 🛛 Oracle Fus	ion Middleware 11g Installation ×
Specify Inventory direc	tory
You are starting your first installation on th installer files. This is called the "inventory o up subdirectories for each product to cont	his host. As part of this install, you need to specify a directory for directory". Within the inventory directory, the installer automatically sets ain inventory data and will consume typically 150 Kilobytes per product.
Enter the full path of the inventory director	у.
You can specify an Operating System grou	p that has write permissions to the above directory
Inventory <u>D</u> irectory:	/scratch/obdxuser/oralnventory Browse
Operating <u>S</u> ystem Group name:	obdxuser 🗨
Help	<u>Q</u> k Cancel

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/oralnventory.

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.

Inventory Location Confirmation Screen

Inventory Location Confirmation Dialog	×
Certain actions need to be performed with root privileges before the install can continue. Please execute the script /scratch/obdxuser/oralnventory/createCentralInventory.sh nowfrom another window and then press "OK" to continue the install. If you do not have the root privileges and wish to continue the install select the "Continue installation with local inventory" option	
Continue Installation with local inventory	
Help Ok Cancel	

This screen appears for UNIX systems only; you are asked to run the inventory_directory/createCentralInventory.sh script as root.

If you do not have root access on this system but want to continue with the installation, select Continue installation with local inventory.

Click Ok to continue.

Welcome Screen

Oracle Access Ma	nager OHS 11g Webgates Installation - Step 1 of 7 $-$ x
Welcome	
 Welcome Install Software Updates Prerequisite Checks Installation Location Installation Summary Installation Progress Installation Complete 	 Welcome to Oracle Fusion Middleware 11g Installer for Oracle Access Manager Oracle Http Server (OHS) 11g Webgates component. Before proceeding make sure that you have installed Oracle WebTier Utilities version 11.1.1.7.0 or higher in the same Middleware Home. For additional information and installation instructions, please refer to the Oracle Fusion Middleware Installation Guide for Oracle Access Manager. Click Help at any time for context-sensitive help. Click Next to begin the installation. Copyright (c) 1999, 2013, Oracle and/or its affiliates. All rights reserved.
Help	< <u>Back</u> <u>N</u> ext > Einish Cancel
	Elapsed Time: Om 18s

The Welcome screen is displayed each time you start the installer. Click Next to continue.

Oracle Access Ma	nager OHS 11g Webgates Installation - Step 2 of 7 $_$	×
Install Software L	Updates	3
Welcome	Skip Software Updates	ור
Wy Oracle Support Update	Search My Oracle Support for Updates	
Prerequisite Checks	Us <u>e</u> r Name:	
Installation Location	Password:	
Installation Summary	Proxy Settings Test Connection	
Installation Progress	Search Local Directory for Updates	
O Installation Complete	Search For Updates	
	Allows user to search for and download software updates from My Oracle	
	Connection" to test the credentials.	
Help	< <u>Back</u> <u>N</u> ex< <u>F</u> inishCancel	
	Elapsed Time: 0m 2	23s

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.

Prerequisite Chec	ks			eware 11
Welcome	Selection	Check	Progress	Status
Skip Software Updates	1	Checking operating system certific	100%	×
Prerequisite Checks	~	Checking recommended operating	100%	×
Installation Location	1	Checking kernel parameters	100%	×
Installation Summary	1	Checking Recommended glibc ver	100%	 Image: A second s
Installation Progress	1	Checking physical memory	100%	 Image: A second s
		Abort	<u>R</u> etry	<u>C</u> ontinue
		hecking operating system certification hecking recommended operating syste hecking kernel parameters	m packages	

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.

If you want to ignore the error or warning messages and continue with the installation, click Continue.

To stop prerequisite checking for all components, click Abort.

Oracle Access Ma	nager OHS 11g Webgates Installation - Step 4 of 7 $ \times$
Specify Installation	on Location
Welcome	
Skip Software Updates	
Prerequisite Checks	
Installation Location	
Installation Summary	
Installation Progress	Oracle Middleware Home: atch/obdxuser/Middleware V Browse
Installation Complete	Oracle_OAMWebGate1
	An Application Server must already be installed.
Help	< <u>Back</u> <u>Next</u> <u>Finish</u> Cancel
	Elapsed Time: 0m 43s

Specify Installation Location Screen

Specify the following installation locations:

- Oracle Middleware Home: The absolute path to the directory where WebLogic Server was installed.
- Oracle Home Directory: The directory name for your Oracle home:
- You can specify a pre-existing directory that you want to use as the Oracle home; the directory must be an empty directory.
- You can specify the name of a new directory that will be created for you inside the Middleware home.

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 Webgate_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 (\\).

Installation Sur	nmary
Welcome	Install WEBGATE
Skip Software Updates	
Prerequisite Checks	Oracle Home Location: /scratch/obdxuser/Middleware/Oracle_OAM
Installation Location	Disk Space
Installation Summary	Required: 1400 MB
 Installation Progress 	- Available: 119872 MB
Installation Complete	Oracle Access Manager - OHS 11g Webgates
	Save Response File: Save Click Install to accept this configuration and start the installation. To change the configuration before starting the installation, select the topic to

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.

Oracle Access Manager OHS 11g Webgates Installation - Step 6 of 7 ORACLE g Installation Progress FUSION MIDDLEWARE Welcome Progress Skip Software Updates 100% Completed .. Prerequisite Checks Install Log /scratch/obdxuser/oralnventory/logs/install2015-08-11_05-45-48 Installation Location Installation Successful. Installation Summary Starting execution of post install scripts Execution of post install scripts completed Installation Progress Installation Complete **Oracle Fusion Middleware** Improved Experience ORACLE < <u>B</u>ack $\underline{N}ext >$ Cancel <u>H</u>elp Elapsed Time: 4m 23s

Installation Progress Screen

This screen shows the progress of the installation.

If you want to quit before the installation is completed, click Cancel. Doing so will result in a partial installation; the portion of the software that was installed on your system before you click Cancel will remain on your system, and you will have to remove it manually.

Installation Con	
 Welcome Skip Software Updates Prerequisite Checks Installation Location Installation Summary Installation Progress Installation Complete 	Install WEBGATE Directory Details Oracle Home Location: /scratch/obdxuser/Middleware Oracle Home Location: /scratch/obdxuser/Middleware/Oracle_OAM Oracle Home Size: 96 MB Available: 119772 MB Oracle Access Manager - OHS 11g Webgates Save Installation Details: Save Oracle Access Manager - OHS 11g Webgates installation completed successfully

Installation Complete Screen

This screen summarizes the installation that was just completed.

You can save this summary information to a file for future reference by clicking Save. You will be prompted to specify a name and location for your summary file.

Click Finish to dismiss the screen.

5.2 Post-Installation Steps for Oracle HTTP Server WebGate

You must complete the following steps after installing Oracle HTTP Server 11g WebGate for Oracle Access Manager:

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

cd WebGate_Home/webgate/ohs/tools/deployWebGate

• Run the following command to copy the required bits of agent from the WebGate_Home directory to the WebGate_Instance location:

./deployWebGateInstance.sh -w WebGate_Instance_Directory -oh WebGate_Oracle_Home



In this command:

WebGate_Oracle_Home is the directory in which you have installed Oracle HTTP Server WebGate and created it as the Oracle home for WebGate.

Example: MW_HOME/Oracle_OAMWebGate1

WebGate_Instance_Directory is the location of WebGate Instance Home, which is same as the Instance Home of Oracle HTTP Server.

Example:

MW_HOME/Oracle_WT1/instances/instance1/config/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_for_Oracle_HTTP_Server/lib

From your present working directory, move to directory:

cd WebGate_Home/webgate/ohs/tools/setup/InstallTools

On the command line, run the following command to copy the apache_WebGate.template from the WebGate_Home directory to the WebGate Instance location (re-named to WebGate.conf) and update the httpd.conf file to add one line to include the name of WebGate.conf:

./EditHttpConf -w WebGate_Instance_Directory [-oh WebGate_Oracle_Home] [-o output_file]

In this command:

WebGate_Oracle_Home is the directory where you have installed Oracle HTTP Server WebGate for Oracle Access Manager and created as the Oracle Home for WebGate.

Example: MW_HOME/Oracle_OAMWebGate1

WebGate_Instance_Directory is the location of WebGate Instance Home, which is same as the Instance Home of Oracle HTTP Server.

Example: MW_HOME/Oracle_WT1/instances/instance1/config/OHS/ohs1

output_file is the name of the temporary output file used by the tool.

Example: Edithttpconf.log

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

5.3 Verifying the Installation and Configuration of Oracle HTTP Server WebGate

After installing Oracle HTTP Server 11g WebGate for Oracle Access Manager, including the post-installation steps, you can examine the installDATE-TIME_STAMP.out log file to verify the installation.

The default location of the log is : WebGate_Home/oraInst.loc

5.4 Registering the New Oracle HTTP Server 11g WebGate

Before you can use the new Oracle HTTP Server 11g 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 7.1.2 "Post-Installation Tasks" under Oracle Access Management Configuration chapter.

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 1.7"
- Section 6.2, "Pre-requisite Installing Weblogic 11g"
- Section 6.3, "Installing Oracle Identity and Access Management (IAM)"

6.1 Pre-requiste - Installing Java 1.7

Obtain the Java tarball pack from the Oracle Java Downloads. Download *jdk-7u80-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-7u80-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>/jdk1.7.0_80

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

6.2 **Pre-requisite - Installing Weblogic 11g**

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 10.3.6 JAR from the Oracle Fusion Middleware Downloads. Download *wls1036_generic.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>/wls1036_generic.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

🗟 Oracle Ins	staller - WebLogic	10.3.6.0 _ ×
Welcome This installer will guide you through the WebLogic 10.3.6.0	installation of	ORACLE
	Instructions	
	Click the Next button to to change entries in a pr button. You may quit the Exit button.	proceed to the next screen. If you want evious screen, click the Previous e installer at any time by clicking the
ORACLE		
E <u>x</u> it		Previous Next

The Welcome screen is displayed each time you start the installer. Click Next to continue.

Specify Middleware Home Screen

🧟 Oracle Installer - WebLogic 10.3.6.0 _ ×		
Choose Middleware Home Dire Specify the Middleware Home where you v WebLogic 10.3.6.0.	ectory wish to install	ORACLE
Middleware Home Type	/scratch/latest_softwares/Oracle/Middl	eware
O Use an existing Middleware Home		
● Create a new Middleware Home		
Middleware Home Directory		
/scratch/Oracle/Middleware		
<u>B</u> rowse <u>R</u> eset		
E <u>×</u> it		Previous Next

Specify the following installation locations:

Oracle Middleware Home

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

Specify Security Updates Screen

Oracle Installer - WebLogic 10.3.6.0	_ ×
Register for Security Updates Provide your email address for security updates and to initiate configuration manager.	ORACLE
Email: Use My Oracle Support email address/user	name
✓ I wish to receive security updates via My Oracle Support	
Support Password:	
E <u>x</u> it [Previous <u>N</u> ext

Click to uncheck the box stating "I wish to receive security updates via My Oracle Support" and the user will be prompted "Do you wish to bypass initiation of the configuration manager and remain uninformed of critical security issues in your configuration?"

6	Oracle Installer - WebLogic 10.3.6.	0 _ ×
Register for Secu Provide your email add to initiate configuratio	urity Updates dress for security updates and on manager.	ORACLE
	Email: Use My Oracle Support email addres	s/username
I wis	Are you sure? Do you wish to bypass initiation of the configuration remain uninformed of critical security issues in you Yes No	× n manager and r configuration?
Exit		Previous Next

Select Yes and Click on Next.

Specify Security Updates Screen

	10	acle Installer - WebLogic 10.3.6.0	_ ×
Register for Sec Provide youigemail a to initiate configurat	curity l ddress fo ion mana	Jpdates ir security updates and ger.	ORACLE
		Email: Use My Oracle Support email address/us	sername
☑ I wish to rec		Email Address Not Specified You have not provided an email address. Do you wish to remain uninformed of critical secu	x urity
		issues in your configuration? Yes No	
E <u>x</u> it			Previous <u>N</u> ext

The user will now be prompted "Do you wish remain uninformed of critical security issues in your configuration?"

Select Yes and it will prompt "Do you wish to bypass initiation of the configuration manager and remain uninformed of critical security issues in your configuration?"

	Oracle Installer - WebLogic 10.3.6.0	_ ×
Register for S Provide your email to initiate configur	ecurity Updates I address for security updates and ration manager.	ORACLE [.]
	Email: Use My Oracle Support email address/u	Isername
✓ I wis	Are you sure? Do you wish to bypass initiation of the configuration maremain uninformed of critical security issues in your co Yes No	× Inager and Infiguration?
Exit		Previous Next

Select Yes and Click on Next to proceed.

Specify Security Updates Screen

0	Oracle	Installer - WebLogic 10.3.6.0	– ×
Reci	ster for Security Update	es	
Provid to initi	🛃 Co	nnection failed × PRACL	E.
	If necessary, specify proxy se check your network connection	erver information. Otherwise click Cancel and on. me	
	Proxy Server:		
	Proxy Port:		
	Use authentication		
	Proxy Username:		
	Proxy Password:		
	If this machine has no interne click Continue.	et connection, select the checkbox below and	
	✓ I wish to remain uninforme configuration or this mach	ed of security issues in my nine has no Internet access.	
	Cancel	Continue	
E	20	revious	xt

Click to select the checkbox "I wish to remain uninformed of security issues in my configuration or this machine has no Internet access."

Click on Continue to proceed.

Specify Installation Type Screen

3	Oracle Installer - WebLogic 10.3.6.0) _ ×
Choose Install Type Select the type of installation you wish to perform.		ORACLE
© Тур	ical Install the following product(s) and component(s):	
O Cus	tom	
(F	Choose software products and components to install a optional configuration.	and perform
E <u>x</u> it		Previous Next

Following are the installation types:

- Typical
- Custom

Select Typical and Click Next to continue.

Specify JDK Selection Screen

🗟 Oracle Installer - Web	Logic 10.3.6.0 _ ×
JDK Selection JDK(s) chosen will be installed. Defaults will be used in script string-substitution if installed.	ORACLE
	💍 Dis <u>c</u> ard Changes
Bundled JDK:	Approximate installed size*
	Highlighted item:
	All selected bundled JDK's: 0.0 KB
	Total of all selected items: 690.2 MB
	*Installer requires free disk space approximately 2x this total
Local JDK:	
✓ Oracle 1.7.0_60 (/scratch/java/jdk1.7.0_60)	
<u>B</u> rowse	
E <u>×</u> it	Previous Next

Check if the JDK Path listed is correct.

If the user wants to change the path, the user can do so by clicking on the Browse button and selecting the path where JDK is installed.

Once done, Click Next to continue.

Choose Product Installation Directories Screen

👩 Oracle Installer - WebLogic 10.3.6.	0 _ ×
Choose Product Installation Directories Provide the directories where you wish to install WebLogic 10.3.6.0.	ORACLE
	💍 Dis <u>c</u> ard Changes
Middleware Home Directory	
/scratch/Oracle/Middleware	
Product Installation Directories The Product Home might contain shared utilities and any products or con directories are not set. WebLogic Server:	mponents for which unique
/scratch/Oracle/Middleware/wiserver_10.3	<u>B</u> rowse
Oracle Coherence:	
/scratch/Oracle/Middleware/coherence_3.7	Browse
E <u>x</u> it	Previous <u>N</u> ext

This screen shows the Middleware Home location and the Weblogic Server and Oracle Coherence Product home directories.

The user should verify the path and Click Next to continue.

Installation Summary Screen

🧟 Oracle Installer - WebLogic 10.3.6.0 _ ×		
Installation Summary The following Products and JDKs will be install	ed. ORACLE	
🛅 WebLogic Server	Description	
 WebLogic Server Core Application Server Administration Console Configuration Wizard and Upgrade F Web 2.0 HTTP Pub-Sub Server WebLogic SCA WebLogic JDBC Drivers Third Party JDBC Drivers WebLogic Server Clients WebLogic Web Server Plugins 	Implements JEE technologies, Web services, and other leading Internet standards, to provide a reliable framework for highly available, scalable, and secure applications.	
Evaluation Database Oracle Coherence	Approximate Installed Size	
Coherence Product Files	Highlighted item: 693.9 MB	
	Total of all selected items: 690.3 MB	
E <u>x</u> it	Previous Next	

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

If you want to make any changes to the configuration before starting the installation, click Previous option to navigate to the screen where you want to edit the data.

Click Next.

Then screen shows the progress of the installation.

Installation Progress Screen

Oracle Installer - WebLogic 10.3.6.0	_ ×
Oracle[®] WebLogic Server 11g Relea Outperform	se 1 (10.3.6)
 Quick application responsiveness Proven, highest reliability, availability, and scale Fastest Java Virtual Machine 	lability
	ORACLE
InstallingPOSITIONS	20%
E <u>×</u> it	Previous Next

This screen shows the progress of the installation.

If you want to quit before the installation is completed, click Exit. Doing so will result in a partial installation; the portion of the software that was installed on your system before you click Exit will remain on your system, and you will have to remove it manually.

Installation Complete Screen

oracle Ins	taller - WebLogic 10.3.6.0	_ ×
Installation Complete Click the Done button to exit the installer		ORACLE
	- Message Congratulations! Installation is complete.	
ORACLE	🗹 Run Quickstart	
E <u>x</u> it]	Previous Done

This screen summarizes the installation that was just completed with a message "Congratulations! Installation is complete."

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 11.1.2.3.0 from the Oracle Fusion Middleware Downloads. Download the zip file to a directory, and unpack the downloaded archive that contains the installer.

 Now to start the installer, go to the directory where you unpacked the archive file and switch to the Disk1 directory. • Start the installer from the Disk1 directory

./runInstaller –jreLoc Java_Home/jdk

Note: You must enter the absolute path of the JRE folder located in this JDK when launching the installer.

- 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

Welcome		11
Welcome Install Software Updates Prerequisite Checks Installation Location Installation Summary Installation Progress Installation Complete	 Welcome to the Oracle Fusion Middleware 11g Oracle Identity and Access Management Installer version 11.1.2.3.0. This installer can be used to install a new OIM Oracle Home, or to patch an existing OIM Oracle Home. If you are installing a new Oracle home: Make sure you have installed a supported version of Oracle WebLogic Server 11g or IBM WebSphere. If the products you are installing require database schemas, make sure you have created these schemas in your database. For more information, see the Oracle Fusion Middleware Installation Planning Guide. Context Sensitive Help is available by clicking Help. Copyright (c) 2000, 2015, Oracle and/or its affiliates. All rights reserve 	•
Help	Kack Next > Emish	ance

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

Install Software	Updates	FUSION MIDDLEWARE
Welcome Skip Software Updates Prerequisite Checks Installation Location Installation Summary Installation Progress Installation Complete	 Skip Software Updates Search My Oracle Support Usgr Name: Password Search Local Directory for Local Directory Search For Updates 	ort for Updates Proxy Settings Test Connection for Updates Brogse
Help		<gack next=""> Einish Can</gack>

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.

Prerequisite Ch	ecks	-		
Welcome	Selection	Check	Progress	Status
Skip Software Updates	4	Checking operating system certific	100%	1
Prerequisite Checks	4	Checking recommended operating	100%	1
Installation Location	4	Checking kernel parameters	100%	1
Installation Summary	1	Checking Recommended glibc ver	100%	1
	1000	the state where the state state state and the state	4.0.00	ALC: NOT
Installation Progress		Checking physical memory	100%	~
Installation Progress		Checking physical memory	<u>g</u> etry) (<u>S</u> ontinue

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.

If you want to ignore the error or warning messages and continue with the installation, click Continue.

To stop prerequisite checking for all components, click Abort.

Oracle Identity Specify Installati	and Access Management Installation - Step 4 of 7 on Location
Welcome Skip Software Updates Prerequisite Checks Installation Location Installation Summary Installation Progress Installation Complete	Oracle Middleware Home: scratch/Oracle/Middleware Browse Oracle Home Directory: Oracle_IDM1 The Oracle home will be created under the Oracle Middleware Home location with the given name.
Help	< <u>Back</u> <u>Next</u> > <u>Finish</u> Cancel Elapsed Time: 0m

Specify Installation Location Screen

Specify the following installation locations:

- Oracle Middleware Home
 - The absolute path to the directory where WebLogic Server was installed.
- Oracle Home Directory: The directory name for your Oracle home:
 - You can specify a pre-existing directory that you want to use as the Oracle home; the directory must be an empty directory.
 - You can specify the name of a new directory that will be created for you inside the Middleware home.

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 (\\).

Oracle Identity and Access Management Installation - Step 5 of 7 × ORACL g Installation Summary FUSION MIDDLEWARE Welcome -Summary Information: . -Location: Skip Software Updates Middleware Home Location: /scratch/Oracle/Middleware Prerequisite Checks ----Oracle Home Location: /scratch/Oracle/Middleware/Oracle_IDM1 Installation Location -Disk Space: -Required: 2600 MB Installation Summary ----Available: 5772 MB Installation Progress -Free After Install: 3172 MB -Applications: Installation Complete -Oracle Identity Manager Server Oracle Identity Manager Design Console Oracle Identity Manager Remote Manager • Oracle Access Manager Save Response File: Save To change this configuration before installing, select the topic you want to change in the pane on the left. To install this configuration, select Install. < <u>B</u>ack <u>I</u>nstall Cancel <u>H</u>elp Elapsed Time: 5m 35s

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.

If you want to quit before the installation is completed, click Cancel. Doing so will result in a partial installation; the portion of the software that was installed on your system before you click Cancel will remain on your system, and you will have to remove it manually.

Installation Complete Screen

$igodot$ Oracle Identity and Access Management Installation - Step 7 of 7 $_$ \times	
Installation Complete	
Welcome	⊡…Install Software Only:
Skip Software Updates	-Location:
Prerequisite Checks	Middleware Home Location: /scratch/Oracle/Middleware Oracle Home Location: /scratch/Oracle/Middleware/Oracle_IDM1
Installation Location	Application Server Type: WebLogic Server
Installation Summary	Disk Space: Oracle Home Size: 2689 MB
Installation Progress	Available: 3108 MB
installation Complete	⊡…Applications:
	Oracle Identity Manager Server
	Oracle Identity Manager Design Console
	Save Installation Configuration: Save
	Oracle Fusion Middleware 11g Identity and Access Management Suite installed successfully.
Help Sext > Einish Cancel	
	Elapsed Time: 17m 50s

This screen summarizes the installation that was just completed.

You can also save this summary information to a file for future reference by clicking Save. You will be prompted to specify a name and location for your summary file.

Click Finish to dismiss the 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. For example, <Oracle_Home>/Oracle_IDM1
7. Oracle Access Management 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 configuring Oracle Access Management:

- Section 7.1, "Configuring Oracle Access Management"
- Section 7.2, "Register Oracle HTTP 11g Webgate for Oracle Access Manager"

7.1 Configuring Oracle Access Management

After installing Oracle Identity and Access Management, configuring Oracle Access Management includes the following sections:

- Section 7.1.1, "Creating Weblogic Domain for Oracle Access Manager"
- Section 7.1.2, "Post-Installation Tasks"
- Section 7.1.3, "Verifying the Installation"

7.1.1 Creating Weblogic Domain for 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.
- Execute the below command, to launch the Weblogic Configuration Wizard:

<Oracle_Home>/wlserver_10.3/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

	Fusion Middleware Configuration Wizard	x
Welcome	ORACLE'	
i l	⊙ Create a new WebLogic domain	
	Create a WebLogic domain in your projects directory.	
	O Extend an existing WebLogic domain	
	Use this option to add new components to an existing domain and modify configuration settings.	
Exit	Help Previous Next]

The Welcome screen is displayed each time you start the installer. Click Next to continue.

Select Domain Source Screen

🛐 Fusion Middleware Configuration Wizard _ 🛪
Select Domain Source
• Generate a domain configured automatically to support the following products:
Oracle Identity Manager - 11.1.2.0.0 [Oracle_IDM1]
☑ Oracle Access Management And Mobile Security Suite - 11.1.2.3.0 [Oracle_IDM1]
Oracle Adaptive Access Manager - Server - 11.1.2.0.0 [Oracle_IDM1]
Oracle Adaptive Access Manager Offline - 11.1.2.0.0 [Oracle_IDM1]
Oracle Adaptive Access Manager Admin Server - 11.1.2.0.0 [Oracle_IDM1]
Oracle Entitlements Server for Managed Server - 11.1.1.0 [Oracle_IDM1]
Oracle Entitlements Server for Admin Server - 11.1.1.0 [Oracle_IDM1]
Oracle Privileged Account Manager - 11.1.2.0.0 [Oracle_IDM1]
✓ Oracle Enterprise Manager - 11.1.1.0 [oracle_common]
Oracle Bl Publisher - 11.1.1.6.0 [oracle_bip]
Oracle BI JDBC - 11.1.1.9.0 [oracle_bip]
Oracle Directory Services Manager - 11.1.2.3.0 [Oracle_OUD1]
🗌 Oracle Entitlements Server Weblogic Security Module On Weblogic Managed Server and JRF - 11.1.1.0 [Oracle_IDM1]
🗌 Oracle Entitlements Server Weblogic Security Module On JRF - 11.1.1.0 [Oracle_IDM1] 💌
O Base this domain on an existing template
Template location: /scratch/Oracle/Middleware Browse
Exit Help Previous Next

Use this screen to select the components that you want to configure.

For Oracle Access Manager, select the Oracle Access Management And Mobile Security Suite - 11.1.2.3.0 [IDM_HOME]

Click Next to continue.

Note: On selecting Oracle Access Management and Mobile Security Suite option, few options like Oracle Enterprise Manager, Oracle WSM Policy Manager, Oracle JRF, Oracle Platform Security Service and Oracle OPSS Metadata for JRF gets selected by-default.

🗊 Fu	ision Middleware Configuration Wizard	_ ×
Specify Domain Name and Loca	tion	ORACLE [®]
Enter the n	ame and location for the domain and its application	ons:
Domain name:	oam_domain	
Domain location:	/scratch/Oracle/Middleware/user_projects/domains	Browse
Application location:	/scratch/Oracle/Middleware/user_projects/applications	Browse
E <u>X</u> it <u>H</u> elp		<u>P</u> revious <u>N</u> ext

Specify Domain Name and Location Screen

Specify the following locations:

• Domain name

Specify the name of the domain.

Domain location

The default locations for the domain home is

<Oracle_HOME>/user_projects/domains

However, the domain home directory can also be created outside of Oracle home.

Application location

The default locations for the domain home is

<Oracle_HOME>/user_projects/applications

However, the domain home directory can also be created outside of Oracle home. Here, Oracle Home directory is where the Weblogic Server is installed. Click on Next.

a	Fusion Middleware Configuration Wizard	_ ×
Configure Administrato	r User Name and Password	ORACLE
💍 Dis <u>c</u> ard Changes		
*Name:	weblogic	
*User password:	******	
*Confirm user password:	*****	
Description:	This user is the default administrator.	
E <u>x</u> it <u>H</u> elp		Previous Next

Configure Administrator User Name and Password Screen

This screen is to provide the username and password for the Weblogic Administrator. The default username is **weblogic**. The user can provide a different username. Then, Click on Next.

Configure Server Start Mode and JDK Screen

Fusion Middlev	ware Configuration Wizard _ ×				
Configure Server Start Mode and JDK	ORACLE'				
Before putting your domain into production, make sure that the production environment is secure. For more information, see the topic 'Securing a Production Environment' in the WebLogic Server documentation.					
WebLogic Domain Startup Mode	JDK Selection				
• Development Mode Utilize boot.properties for username and password and poll for applications to deploy. Sun JDK recommended for better startup performance during iterative development.	● Available JDKs Sun SDK 1.7.0_79 @ /scratch/latest_softwares/java/j¢				
Production Mode Require the entry of a username and password and do not poll for applications to deploy. WebLogic JRockit JDK recommended for better runtime performance and management.					
E <u>x</u> it <u>H</u> elp	Previous Next				

- Choose a JDK from the Available JDKs.
- Select a mode under the Weblogic Domain Startup Mode.

Click Next.

	ote: Change only the input fields below that you wish to modify and values will be applied to all selected rows.							
	Vendor:	Oracle			DBMS/S	ervice:	INST	
	Driver:	*Oracle's Driver	(Thin) for Service con	nections; Versions:9.0.1	L – Host	Name:	10.180.7.88	
Sch	iema Owner:	Varies among c	omponent schemas			Port:	1521	
:hem A⊂ co	onfiguration	for component s) Convert to Gri	chemas: idLink O Convert	to RAC multi data sourc	ce 🔿 Dor	n't conve	rt	
nem	onfiguration	for component s) Convert to Gri nent Schema	chemas: idLink O Convert DBMS/Service	to RAC multi data sourc Host Name	ce () Dor Port	n't conve Schi	rt ema Owner	Schema Passwor
-hem AC co	Compo	for component s) Convert to Gri nent Schema hema	chemas: idLink O Convert DBMS/Service INST	to RAC multi data sourc Host Name 10.180.7.88	ce O Dor Port 1521	n't conve Schi DEV1_I	rt ema Owner MDS	Schema Passwor
:hem 4C cc	Compo OAM MDS Sc OWSM MDS S	for component s) Convert to Gri nent Schema hema chema	chemas: dLink O Convert DBMS/Service INST INST	to RAC multi data sourc Host Name 10.180.7.88 10.180.7.88	e O Dor Port 1521 1521	"t conve Schi DEV1_I DEV1_I	rt ema Owner MDS MDS	Schem a Passwor
:hem	Compo OAM MDS Sc OAM MDS SC OAM Infrastr	for component s) Convert to Gri nent Schema hema chema ucture	chemas: dLink O Convert DBMS/Service INST INST INST	to RAC multi data source Host Name 10.180.7.88 10.180.7.88 10.180.7.88	Port 1521 1521 1521	"t conve Schi DEV1_1 DEV1_1	rt ema Owner MDS MDS DAM	Schema Passwor *******
	Compo OAM MDS Sc OAM MDS S OAM Infrastr OMSM Schem	for component s Convert to Gri nent Schema hema chema ucture Ia	chemas: idLink O Convert DBMS/Service INST INST INST INST	Host Name 10.180.7.88 10.180.7.88 10.180.7.88 10.180.7.88 10.180.7.88	Port 1521 1521 1521 1521 1521	Schi DEV1_1 DEV1_1 DEV1_1 DEV1_1	rt MDS DAM DMSM	Schem a Passwor ********* ********

Configure JDBC	Component	Schema	Screen
----------------	-----------	--------	--------

This screen displays a list of the following component schemas:

- OAM MDS Schema
- OWSM MDS Schema
- OAM Infrastructure
- OMSM Schema
- OPSS Schema

Select a component schema, such as the **OAM Infrastructure Schema** or the **OPSS Schema**, that you want to modify.

You can set values for Schema Owner, Schema Password, Database and Service, Host Name, and Port.

Click Next.

Note: The schemas listed in this screen should be created before starting the configuration using Oracle Repository Creation Utility. Refer to the chapter "Oracle Repository Creation Utility for Schema Creation" for detailed information.

Test JDBC C	Component	Schema	Screen
--------------------	-----------	--------	--------

st JDE	BC Co	mponent Schema		ORACL
	Status	Component Schema	JDBC Connection URL	
	\checkmark	OAM MDS Schema	jdbc:oracle:thin:@10.180.7.88:1521/INST	
	\checkmark	OWSM MDS Schema	jdbc:oracle:thin:@10.180.7.88:1521/INST	
	\checkmark	OAM Infrastructure	jdbc:oracle:thin:@10.180.7.88:1521/INST	
	\checkmark	OMSM Schema	jdbc:oracle:thin:@10.180.7.88:1521/INST	
	\checkmark	OPSS Schema	jdbc:oracle:thin:@10.180.7.88:1521/INST	
Select		Incelert All	ions	
<u>S</u> elect J Connec	All [Inselect All Test Connect	ions	
<u>S</u> elect / Conner Compo	All [] ction Re onent So	Unselect All Test Connect Isult Log Inema=OMSM Schema	ions	
Select / Conner Compo Driver= LIRI = ir	All [Inselect All Test Connect sult Log chema=OMSM Schema jdbc.OracleDriver clethin:@10.180.7.88:1521/J	ions	
<u>S</u> elect J Connec Driver= URL=jc USer=l	All <u></u> ction Re onent Sc =oracle dbc:ora DEV1_C	Inselect All Test Connect sult Log chema=OMSM Schema jdbc.OracleDriver clethin:@10.180.7.88:1521/I	ions NST	
Select / Conner Compo Driver= URL=jo User=I Passwo	All <u></u> ction Re onent Sc =oracle dbc:ora DEV1_C ord=****	Inselect All Test Connect sult Log thema=OMSM Schema jdbc.OracleDriver clethin@10.180.7.88:1521/I MSM ******	NST	
<u>S</u> elect / Conner Compo Driver= URL=jo USer=I Passwo SQL Te	All <u></u> ction Re onent So =oracle dbc:ora DEV1_C ord=**** est=sele	Inselect All Test Connect sult Log thema=OMSM Schema jdbc.OracleDriver clethin:@10.180.7.88:1521/I MSM test 1 from schema_version_m	ions NST egistry where owner=(select user from dual) and mr_type='OMSM'	
Select / Conner Driver= URL=jo USer=I Passwo SQL Te CFGFW	All ! ction Re onent So =oracle dbc:ora DEV1_C ord=*** est=sele /K-2085	Inselect All Test Connect sult Log thema=OMSM Schema jdbc.OracleDriver cle:thin:@10.180.7.88:1521/I MSM sect 1 from schema_version_re 50: Test Successful!	ions NST egistry where owner=(select user from dual) and mr_type='OMSM'	

This screen displays the status of the DB Schema Test Connection.

- If the test fails, click Previous, correct the issue, and try again.
- After the test succeeds, click on Next.

Select Optional Configuration Screen

3	Fusion Middleware Configuration Wizard	_ ×
Select Optional Configurati	on	ORACLE
	Administration Server Modify Settings	
	Managed Servers, Clusters and Machines Add or Delete Modify Settings	
	Deployments and Services Target to Servers or Clusters	
	RDBMS Security Store Modify Settings	
E <u>x</u> it <u>H</u> elp		Previous Next

Choose the options to configure from the following list:

- Administration Server
- Managed Servers, Clusters and Machines
- Deployments and Services
- RDBMS Security Store

Select Administration Server and Click on Next.

	Fusion Middleware Configuration Wizard	_ ×
Configure the Adr	ninistration Server	ORACLE
💍 Dis <u>c</u> ard Changes		
*Name:	AdminServer	
*Listen address:	All Local Addresses	
Listen port:	7011	
SSL listen port:	N/A	
SSL enabled:		
E <u>x</u> it <u>H</u> elp]	Previous Next

Specify the following details of the Administration Server in this screen:

- Name
- Listen address
- Listen port
- SSL listen port (Only if SSL is enabled)
- SSL enabled

After entering the details, click on Next.

Configuration Summary Screen

💿 🛛 Fusion Midd	lleware Conf	figuration Wizard _ ×
Configuration Summary		ORACLE [®]
Domain Summary Summary View. Deployment	Click on an ite in the Details ; to return to a	m in the Domain Summary pane on the left to inspect its attributes sane below. You can make limited adjustments by clicking Previous prior panel. If everything is satisfactory, click Create.
	Details	
	Attribute	Value
	Name	Basic WebLogic Server Domain
E C Shutdown Class	Description	Create a basic WebLogic Server domain without installing sam:
	Author	Oracle Corporation
DMSShutdown	Location	/scratch/Oracle/Middleware/wiserver_10.3/common/templat
E- T Startup Class	Name	Oracle Access Management And Mobile Security Suite
IRE Startup Class	Description	Oracle Access Management Server and Mobile Security Extensi
- IPS Startun Class	Author	Oracle Corporation
ODL-Startup	Location	/scratch/Oracle/Middleware/Oracle_IDM1/common/template
	Name	Oracle Mohile Security Manager
JMX Framework Startup Class	Description	Oracle Mobile Security Manager Extension Template
	Author	Oracle Cornoration
- OC-Startup	Location	/scratch/Oracle/Middleware/Oracle_IDM1/common/template
DMS-Startun		y ber alerty of deley maaremarely of dele_bring commonly complete
	Name	Oracle Access Management
Dec Data Source	Description	Oracle Access Management Server Extension Template
, E <u>x</u> it ∐elp		Previous Create

Review the domain configuration on this screen.

If you want to make any changes to the configuration before creating the domain, click Previous to navigate to the selected screen where you want to edit the details.

Click Create to start creating the domain.

By default, a new Weblogic Domain to support Oracle Access Management is created in the <Oracle_Home>/user_projects/domains directory.

Creating Domain Screen

(Fusion Middleware Configuration Wizard _ ×
Creating Domain	ORACLE'
	Progress:
	100%
ORACLE	Preparing Extracting Domain Contents Creating Domain Security Information Saving the Domain Information Storing Domain Information String Substituting Domain Files Performing OS Specific Tasks Performing Post Domain Creation Tasks Domain Created Successfully! Domain Location: /scratch/latest_softwares/Oracle/Middleware/user_projects/domains/oam_dc Admin Server URL: http://ofss312890.in.oracle.com:7011
Exit Help	Previous Done

This screen summarizes the domain creation information that was just completed.

Click Done to dismiss the screen.

• After configuring Oracle Access Management in a Weblogic Administration Domain and before starting the Admin Server, you must configure the Database Security Store by executing the below command:

<Oracle_Home>/oracle_common/common/bin/wlst.sh <IDM_HOME>/common/tools/configureSecurityStore.py -d <Oracle_Home>/user_projects/domains/<OAM_domain>/ -c IAM -p <opss_schema_password> -m create

• Now, start the Admin Server using the following command to check if the Security Store is configured correctly.

<Oracle_Home>/user_projects/domains/<OAM_domain>/bin/startW eblogic.sh

Note: Oracle_Home is the Middleware Home, which is the absolute path where Weblogic Server is installed & IDM_HOME is the absolute path of the Oracle_IDM directory.

7.1.2 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/Open LDAP) Hostname
Port	This is the LDAP Server (OUD/Open LDAP) 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/ OpenLDAP user search base cn=Users, dc=in,dc=oracle,dc=com
GroupBase DN	This is the OUD/ OpenLDAP 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 OAMIdentityAsserter and DefaultAuthenticator.
- Click Save to apply the changes and shutdown the Admin Server for restart.
- Now, again start the Admin Server using the command,

<Oracle_Home>/user_projects/domains/<OAM_domain>/bin/startWeb logic.sh

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

<Oracle_Home>/user_projects/domains/<OAM_domain>/bin/startMan agedWeblogic.sh oam_server1

(Only if Managed Server Start Fails)

In-case Managed Server startup fails with the below error

<Error> <Security> <BEA-090783> <Server is Running in Development Mode and Native Library(terminalio) to read the password securely from commandline is not found.>

• Set the JAVA_OPTIONS, WLS_USER and WLS_PASSWORD as follows:

export JAVA_OPTIONS=-Dweblogic.management.allowPasswordEcho=true

export WLS_USER=<oam_weblogic_username>

export WLS_PASSWORD=<oam_weblgoic_password>

• After setting the values for the above variables, try starting the Managed Server once again.

7.1.3 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.

7.2 Register Oracle HTTP 11g Webgate for Oracle Access Manager

Before you can use the new Oracle HTTP Server 11g 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.

Follow the instructions as shown below to Create Webgate SSO Agent, Manage Application Domain & Resources for Oracle Access Manager.

• Create Webgate Agent

Login into OAM Console.

Lanch Pal	A Protection Security of Cardiquestee
Lank frei	
Guiek Start Witands Access Ma Perters comme setig table Manage lage for Statistics Tuple (in: 100 Specificipation) Statistics Tuple (in: Net Architecture) Seties	anger + Agerta - Ager
Session Management Faster Manage Digits Dip-Ton sessions Manager Connects Faster	and Palicy and Palicy Palicits the Margin between Adventised Palicy

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

In the Agents block, Click the "+" and choose Create Webgate.

ORACLE A	ess Management		A research	The second	ana v	
		100		Para and	0	
Launit Ppl Croste Webgete					8	
Jacoben Mitanager +						
Create Webgate Use the blowing stress to register	an CAM Agent: Before you register	ensue that at least size	C424 Server is running in the same mode as	the Agent to be registered	Apply	
* tesici			" Security & Op			
- tere	munitian is state on		0-3e	ря		
Description			© De			
			Anite County Endering 18			
ftane URL			Fiddate ()			
Access Clarit Pennent						
Hoat Revealer	mantifices it and com					
User Defined Parameters						
Resource Lints						
Protected Resource	elis i	dd Delete	Public Resource List	Add	Delete	
			1000000000	10000		
Relative URE			Helative UK			
<u>e</u>						

- Select the Version as 11g
- Enter the **hostname** in Name field
- Click on Apply

This creates the 11g Webgate Agent for OAM.

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

🕒 Orade Access Managemen X	• com (00) inserconcels (bees tadmin inter) alti or	p=360252669023046_al/Westmatkede=0	8. d/Windowläwn/88. all/tril-state=153ppoadmp.2	0.900 =
	ORACLE [®] Access Management	S Appleation Security	anna 🔹 🥌 Feiseathan 🔲 Machie Security 🧬 Contiguentian	
	Current Hart Quick Start Wizards Poten current sets lates Hosten current sets lates	Access Manager ++ Access Manager ++ Manage Style Sign-On Application Domains Associated Clauser Provide Clauser Provide Clauser Provide Clauser Provide Clauser Provide Clauser	Agents ++ Manage large large changens	
	Easton Hangement Konge Sign Synchr samer	Password Paley Nanga Cannan Password Poley for Single Sign-Cir	Playies ++ Respiration Playies	
	Descript & 2011, 2019, Course and an An Albana, An April House	*1		

• Manage Application Domain

Now, to search for an application domain, go to Launch Pad

Control Registration Domains Search Registration Domains * Search Registration Domains * Search Registration Domains * Search Registration Domains Search Registration Domains * Search Registration Domains * Search Registration Domains * Search Registration Domains * Search Registration Domains Search Registration Domains	Control Results Control Results Search Application Domains View Search Results Search Results <th>Level fei Level fei Application Domains Search Application Domains * Search Search Results Search Results</th> <th>ORACLE Access Management</th> <th></th> <th></th> <th></th>	Level fei Level fei Application Domains Search Application Domains * Search Search Results	ORACLE Access Management			
Land Fill Application Densins Search Application Densins If Densis Application Densins Marine Search Marine Search Results Addres + Vers + IP Credit Totals Normal Credit Totals Marine Search Results Marine Search Results Marine Description Normal Credit Totals Application Densis Marine Search Results Marine Description Normal Credit Totals Application Densis Marine Search Results Marine Description Normal Credit Totals Application Densis	Learn Heil Application Domains Create Application Domains If Create Application Domains A Search Application Domains Search Results If Search	Listen Heil Application Domains If Omain Application Domains Listen Heil Application Domains If Omain Application Domains Listen Heil Application Domains If Omain Application Domains Search Application Domain Application Domains If o		Appleation Security	Mobile Security of Configuration	
Accent Application Domains Orasis Application Domains The the sensitive spliteation Domain outline to use of Access and 4 Search Search Results Search Results Search Addres + View + Creater / Edit (); Onton (); Detect Search Note * Search Results Search Addres + View + Creater / Edit (); Onton (); Detect Search Note * Search Description * Note * Search Creater / Edit (); Onton (); Detect Note * Search Results Note * Search Note * Search Note * Creater * Creater / Edit (); Onton (); Detected Note * State * Creater * State	Search Application Domains Image: Create Application Domain Schere or other to create Application Domain Schere or Other Oppication Domain Schere or Oppication Domain Sch	Search Application Domains Image: Create Application Domains * Search * New Search Search Results * Sea	Laund Fail Appleature Domain a		8	
Search Application Domains Orean Application Domains Orean Application Domain address on all the Consta Applicatio	Search Application Domains	Search Application Domains Conserve rolds the Cruste Leptenden Denain to the to cruste Acteur and	Acom Margaria			
Use for sound high the is an energy significant Danae or old the Crude Lepisotion Danain tubes to crude Action on. # Search Name Search Results Actions + View + @ Crude! // fill: (X) Datain Rew Name Description Weight & Zeitt, 2010; 2010	Use for sound high the is an energy significant Danae or did the Cruste leptication Danais is date is to cruste a clear on an # Search Name Search Results Actors * Vare ◆ Cruste / findi (); Datation (); Detective Rev Name Search Results	Use for sound high the is an energy significant Danae or old the Cruste Leptoneon Danain tubes to prote a clear on. # Search Name Search Row Name Name The cruste Search Row Name Description *	Search Application Domains		+ Create Application Domain	
		4 Search Search Results Search Results Search Results Ref None Description Search Results ************************************	Use the anarch tool to find an eviding application Durnale or olds the Create A	lepitotics Distain builties to create Artesi sim.		
None Search Results Addres + Verve + © Create < Intell <0 Data	Search Results Addres + Verse + © Create / Intel (1) Delate // Dela	Search Results Addres + Vere + Credet / friet () Detect Rew Name Description Writehin depte ***	4 Search			
Search Results Addox + Ver + Create / Int () Detection Rev Name Re	Search Results	Search Results Search Results Search Result Adors + Vere + Create of this (); Units () Description Read Action to data () () () () () () () () () () () () () (Nate			
Search Results Addre + Ver + Create / Ent () Create / Description Rev Name Rev Name Rev Addre + Description * Rev Addre + Ver + Create Address Registered Compart 2000, 2010, Create Andress Registered	Search Results Addres + Veer + Creek / Int () Date: Row Name Description + + + + + + + + + + + + + + + + + + +	Search Results Addres + Vene + Create # Int (); Delate # Description Results Coupler			Search Reset	
Addres + Your + © Create // Carl >> Create Row Name Description No Name Description	Addres + Vee + Øreter // East /	Adors + Var + © Create // Earl Entrie En	Search Results			
Row Name Description No rate in cluster * * *	Box Name Description + Notation to depaye + + + +	Box Name Description * Recent in depays * * * * * * * *	Addres + View + 14 Create / Intel 12 Dealer 12 Dealer	terk.		
The main is require a set of the second of t	Re min la capitar and a second	Re table Copies	Rev Name	Description		
Tanget 200, 201, Date and its affers in gets moved	Complet 2001, 2011, Come acces Nutheries. An gene modered	Changel #200, 201, Case actor to affines. N got moiored	Re tals is digite:		· · · ·	
Complet 2000, 2010, 2000, 2010	Complet 2001, 2011, Date a core to afferen. At gots merved	Complet 2001, 1213, 2213, 2214, 2224, 22 (22) and 22)	2			
Changel #2001 2215 Case actor is offenes. N gets marred	Cannaged #2000, 2010, Canno action NumBanes. At grant marked	Canangel & 2000, 2010, Canan around a Kingman and and				
Changed # 2000, 12010, Cause access for affinities. All good mediced	Change 6 2000, 1210, Cause access to affines. All gots molecul	Change 6 2000, 1010, Case acces to affines. All gots movies				
			Complete view, 2215, Once and in a fillings, All give reserved.			

Click on Applications Domain in the Access Manager tab.

Click on Search

ORACLE Actess an abenen	🕼 Application Security 🗸 Federators 🔲 Biblie Security 💰 Configuration	
Laurel Parl Application Domain y	8	
in the second seco		
Search Application Domains	+ Create Association Domain	
Lise the search locito find an existing (policition Domain or dati the Cherk	e Applicatier Contait tuttor to creativ a new one	
4 Search		
Nete		
	Search Peret	
Search Results		
Addrew Verw + + Onder / 111 12 Dates 22 0	brah	
Row Name	Description	
1 Frank App Integration	Policy objects enabling integration with Drace Fusion Applications	
2 14M Suite	Policy vigeds exabling GAM Agent to protect deployed UAM Suite applications	
3 mmakin in mach sm	Application Exernite created through Remote Registration	
4 munitiane in antic con	Application Dismain created through Remain Registration	
5 dwi11628	Application Distrate created through Remote Regativation	
4 ob010672	Application Cristials created through Remote Registration	
7 wide-to make can	Application Damain canalist Bhough Fermile Registration	
Deputer 4 2000, 2019. Dank and an la efficies. 47 spits rearrant.		

Click on the Domain Name you want to configure.

				·····	
ORACLE Access	Vanagement	The Appleation Security	Federation 🔲 Mobile Security	of Configuration	
Land Rel Applater Dana a	unition acticican a			а	
Acres Varage					
mum00aom.in.oracle.com	Application Domain				
Application Donate provides a togical cont	when the resources or write of resources; a	not the associated policies that datale who co	w scoess specific protected resources.		
Scenary Essences Advertise	an Polipiele Authoritation Politikes To	ken Insuance Policies - Administration			
				Apply	
"Nover	man Olivern in coscile contr				
		site .			
Description	Papetulue				
* Session idle Timenut (wirwine)	0.0.				
Allow SAVEN Token	0				
Allow Session Impersonation					
Exades Policy Oxforing:	4				
Property New York, New Yor					
Contraction of Contraction					

Click on the Resources Tab

CRACLE Access Management	
Lauth Fail Applicate Donain , manifiliane increase ann ,	
Access Manager +	
mum00aom in oracle.com 4xxkute Oxua	
Application Chaman provider a logical contracter for resources or with of resources, and the statistical policies that labels who can screen specific protected resources.	
Duranay Kenanana Admittation Polices Autocattur Polices Toler Insuran Polices Admittation	
Use the watch looks that an watching Resource or disk the New Resource Lodion to create a new tank	
4 Search	
Recent rige InTTP	
Sud Mether Achartester Folio	
Resource URL Authoritation Policy	
Sect. Ret	
Search Results	
Adves + Her + 🕂 Creater 🗠 Content 🧹 Tell 💢 Datach	
Row Resource Kontildentifier Resource URL Query String Authentication Policy Authorization Policy	
No data (nga)	
Colores Editors 2	
Commit Hadan .	

Click on Search

Search	Results					
Actions	▼ View ▼	+ Create 🔿 🗈	Duplicate 🥜 Edit 💥 D	elete 🔤 Detach		
Row	Resource Type	Host Identifier	Resource URL	Query String	Authentication Policy	Authorization Policy
1	HTTP	mum00aom.in	/**		Protected Resource Policy	Protected Resource Policy
Column	ns Hidden 2	2				

Search Results will show an entry for Resource URL as l^{**} which is Protected.

Select the Resource entry and Click the Edit option.

C @ mum00aon:7001/oamcm	nsole/faces/admin.jsps?_afrLnop	=137380309897342318, afrWindowMode=08, afrWindowId=will8, adf.ctH-state=11 🕈 🕁 🚺	0
mum00aom.in.oracle.com	n:/**:All Resource	Duplicate Apply	
Use the following screen to define a Re across domains, but the combination of	source and the URL prefix that ident fa resource URL, Query String, and a	fies the resource (pocument or entity) stored on a server. Individual resource URLs need notible unique host identifier must be unique acloss domains.	
Тура	+17P *		
Description			
" Host Mentilier	mumblaominie Q		
at Uni			
* Resource URL /*			
Query .	Name Value Int () String		
	Query	+ ×	
	Name	Value	
	NO LIVES TO LIVEDURY		
.d Operations			
" Operations Avail	lable 🥁 Al		
	CONNECT		
	M OPTIONS	1	
	(# pirr		
# Protection			
* Protection Level U	Inprotected *		
Authentication Policy P	ubis Resource Policy •		
Authorization Policy P	utic Resource Policy		
mapping and the group of the gr			

Modify the values of Protection Level, Authentication & Authorization Policy as shown. Click on Apply to save the changes.

anten launter 🛆 federation	Mobile Security	of Caritganatos	
		14	
policies that citative who car access tap	actic protected resources.		
in Administration			
56			
	54	earth Reset	
Authentication Poly	Autorization Pole	<i>cy</i>	

Click on the Create Icon

Access Manager >						
Create Resource Resource					Ap	ply
Use the following screen to define a Res domains, but the combination of a resour	urce and the URL prefix tha ce URL, Query String, and a	t identifies the resource (do host identifier must be uniq	cument or entity) stored on a ue across domains.	server. Individual resource	URLs need not be unique acro	SS
* Туре	T					
Description		1.				
* Host Identifier	Q					
🖌 Uri						
* Resource URL						
Operations						
Operations Availa	le 🖉 All					
Protection						
* Protection Level	T					
Authentication Policy	·					
Authorization Policy	,					

Specify the following values for each of the fields respectively:

 <u>Type:</u> 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.
- <u>Host Indentifier:</u> 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.
- <u>Resource URL</u>: The URL value must be expressed as a single relative URL string that represents a path component of a full URL. For example, */index.html*
- <u>Protection Level</u>: Select "Protected" to protect a URL and associate it with a protected-level Authentication Policy using variety of Authentication Schemes.
- Authentication Policy: Select "Protected Resource Policy".
- Authorization Policy: Select "Protected Resource Policy".

Click on Apply to add the resource.

Same steps can be performed to protect other URLs as shown below:

Actions	▼ View ▼	🕂 Create 🛛 🖓 🛛	Duplicate 🧪 Edit 🗙 De	elete Detach		
Row	Resource Type	Host Identifier	Resource URL	Query String	Authentication Policy	Authorization Policy
1	HTTP	mum00aom.in	/*/pages/*		Protected Resource Policy	Protected Resource Policy
2	HTTP	mum00aom.in	<i>l</i> **		Public Resource Policy	Public Resource Policy
Colum	ns Hidden 2					

• Create Custom Login Scheme

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

T T C LINE COM	enverse de la construcción de la co	en and added of the south south.	ana • 😁	413.0
	ORACLE Access Manageme	al Standard Security	Fachantion 🔲 Mobile Security of Configuration	
	Lawson Pod			
	>		0	
	Quick Start Wizards	Access Nanager ++	Agents ++	
	Petitoni connor setup lado	Manage Single Sign-Dr Jagekadow Domano	Manage Single Sign-On agrees	
	Application Regulation 1942 Aprel Regulation	Appleiter Donamo Persona Sigen Hall Socitien Autorituite Scherep		
		Search and solt Authentication Sch	lene)	
		2	2	
	Session Nanagement	Password Policy	Plug-ma ++	
	Hanapa Single Sign-Or sensions	Manage Commun Passwood Policy for Single Sign-On	Variașe Autoritudior Plap-Ins	
			Autoritation Molann Autoritation Pag va	
	Copyright & 2000, 2019. Crossin and in the efficience Advances	nend .		

Click on Authentication Schemes from the Access Manager block.

T Grade Access Managente X			March 1 and 1 and
← → C 🗋 mum06eon in oracle.c	am 7001/oanconsole/faces/admin.jppa1_adf.strl=state==spepk3g5q_2158b_ahlcop=3	51724206801318	Q Y 10 E
		and 10	
	ORACLE' Access Menagement	🛦 Federation 🔲 Mobile Security 🔗 Configuration	
	Land Pat Automitation Schemen a	8	
	lactore Manager -		
	Search Authentication Schemes	🔶 Charle Auftrentmatten Scheme	
	Sharith far sin existing Judiendostion Ediente or skill the Create Authentication Scheme Suttain to smalle 3 new one		
	4 Search		
	Rate		
		Inesh Firsel	
	Search Results		
	Adam + Max + 🖕 Caute 🔿 Depinate 🧳 IIII 🙁 Denie 📓 Betach		
	Row Name Description		
	No Add to Replay		
	Gapping 6 2000, 2019, Decisi andro ta affianta Al optici mascasti.		
and the other sectors will be an an and the sector of the sector	mmiguet action-mereorkiefte 25th attorn-751714200001738		

Click on Create Authentication Scheme

	100 Contraction (100 Contraction)	
	Standard Security A Federation 🔲 Mobile Security of Configuration	
Land Pal - Admittation Sciences y - Coste Authentication Science	а	
Acon Variant-		
Create Authentication Scheme Automation Scheme	Set An Default Apply	
An Authoritation Scheme Selfma the stallings mediumism separat to sufferitate a us	ar. Each Authentization Scheme musi ales include a cellenel Authentization litectule.	
* Name		
Description		
* Authentization Level g		
Default: ()		
* Challinge Bethod		
Orallerge Redirect (FR.		
* Authoritzation Madala		
Challenge Paramotore		
Dopyger 0.0000, 2010, Dage andor to Milates. At spice exerved		

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.

• Add the Login Scheme to the Authentication Policy

Go to the Launch Pad.

		ate • ***	
ORACLE Access Managem	STE Application Security	ederation 🔲 Militale Security 💰 Configuration	
Lawah Pad			
Quick Start Witzerds	Access Manager ++	Agents + •	
Pedarin cannon relip taks	Manoge Single Sign Ox Application Domains	Itowage Single Sign-On agents	
Application Kingstreature 830 Appent Private share	Association Distances Resocutor Types		
	Work sheetly Search and soft Application Domains Authoritization Sciences	6	
(≌)	Mð I		
Session Management	Password Policy	Plag-ins ++	
Marage Style Sign-Dr manazer	Manage Cammon Passward Policy for Single Sign-Cin	Warage Authentication Pag-Inz	
		Authenticology Monaies	
		schuntzen Pog-es	
Counter \$ 200 2010 Gauss and in affiance of spin-	and and		

Click on Application Domain.

Land: Par Ann	LE Access Management	state + ***	
Landt Par Ann	LE Access Managament	🕼 Application Security 🛕 Pelevation 📋 Mobile Security 🔗 Configuration	
Landt Pat App Across Manag	plustice Constr	Contraction of Lease 1 and accel of Contraction	
Laudo Pati Age Access Manag	pluation Domain .	a	
Access Manag		18	
Access Manag			
	pr.,		
Search Appl	lication Domains	Treater Appleutran Demain	
te le surb to	i to tele an examp approates Diamate or did the Criste	expectation Cloniver backor to chrone a new chec	
4 Search			
Rater			
		Search Reset	
Search Result	ts		
Adam + Vev	• + Cente / DH X Dans 20	iduit .	
Row Na	ane	Description	
1 Pa	nem yhte paelingos	Paicy dajede erudalog obej alter with Ocade Fusion ligplications	
1.8	PE Suite	Petitry objects enabling CHAR Agent to protect depolypic) HAIL Suite applications	
	FLB 6 8 8309 (00)	Appendion Durinde Orselect Toxicity Hearing Hearing Hearing	
	antonin e creae can	Appendix Luman dealer, toxige various registrate	
6.0	a (1967)	Justication Comme cavaler through Farroris Experiment	
1.0	Colo-it is such that	Justication Durian created Rescale Earning Excellence	

Click on Search and Select the Domain Name.

<image/> <complex-block><complex-block><complex-block><complex-block><complex-block></complex-block></complex-block></complex-block></complex-block></complex-block>						atre • —	
Cut find	ORACLE Access	Vanagement	Application Security	A research	Galactic Security	of Contiguation	
Image:	Lonish Pad Application Danails a	wettern in anach com "				8	
Image: Contraction Cont	Accent Manager +						
September Dovent modelse a koppet anstande for inserting on the inserting packed for and access goed for protocold resources. September Dovent modelse a koppet anstande to balant. * Berning * Dovent modelse a koppet anstande com * Berning * Dovent modelse and through Resold Doverspram * Berning * Dovent modelse and through Resold Doverspram * Berning * Dovent modelse and through Resold Doverspram * Berning * Dovent modelse and through Resold Doverspram * Berning * Dovent modelse and through Resold Doverspram * Berning * Dovent modelse and through Resold Doverspram * Berning * Dovent modelse and through Resold Doverspram	mum00aom.in.oracle.com	Application Domain					
Image: Description Information Decks Advection to the insure Police Advection to the insure Police "Mere: number of the insure Police "Mere: number of the insure Police Advection "Mere: number of the insure of the insure Police Advection Advection "Mere: number of the insure of the insure Police Image: Number of the insure of the insur	Application Contain provides a logical case	aner for menarise or sels of resolution, i	and the seascipled policies that dictain	utu can access ipe	ofic protected resources.		
* Mere: resultion stands cm * Season life Tresset (seasons) * Season life Tresset (s	Summary Remarks Autorital	a <u>r Pakan</u> Authomation Pakien. Tu	der Insume Polices - Acheloliste				
* Name mellion a rando com Applition Donoir mellion de nado Decempion * Senson lite Trescut (mentes) * Senson lite Trescut (mentes) Alco Diale 1 talen () Alco Diale 1 talen () Ender Noto Otheres () Decempion () Decempion ()						Apely	
Applition Colour need front Rolling Renak Reparties * Senson Bits Tomeret (answer) * Senson	* Bate	mailles track on					
Pagetinia Decentration * Season: Bio Tensent (Innotes) - 1 - 1 - Allow Evaluation (Innotes) 							
Descript & 2001; 2011; Over anter the Minus All spin teament		Application Contain created through Ren Registration	nak				
* Season Bills Timeud (proseks) Allow Diversity Tolem () Allow Season Improvember () Enable Poles Onlaring () Descript & 2001. 2011. Online and in the West All optim married	Description						
* Season Bio Freedul (Innotes) I Allow Dialth Toles I Allow Dialth Toles I Allow Dialth Toles I Innote Reader Improvements I Innote Reader Toles I Descript 6.2001. 2019. Onlines: All spits mercent I							
Allow Dikalih Talaer Allow Dikalih Talaer Allow Dikalih Talaer Etalah Polog Ordering Orgenpel 6 2001: 22 M. Owen preter in alflanas. All spin memori	* Season Idle Timerut (introdes)	1					
Allen Senior Improvember () Erade Policy Oxforms () Omorph 6.2022, 7219, Oxfor profer to Allenia, All split, internal	Allow DRuth Token	1					
Estadain Folicy Oxforming Oxpopul 6 2000, 2010, Oxfor and an av All spins totament	Allow Session Improvation	1					
Orașeșef 6 2000, 2016, Onde antire în effetate. Al spire, nament	Evalue Policy Onlaring	£					
One-ppi 6.000.00%. One-andre in affaires Af spin manuel							
Oppopt 6.000.02%. Opperators is efficient African African							
	Capity & 2001, 2219. Chada and to be af	taras XC spins essenant					

Click on Authentication Policies Tab

Coule Access Management X	State of Lots		
← + C 🗋 mum00son.in.orade	.com/2001,comconsole/laces/admin.jopa7_adf.ctrl=state=stpopi	Gg5q, 3208, ahtoop=352846627422944	요산 0 표
		ane •	
	ORACLE Access Management	🕞 Application Security 🔏 Peterstan 🔲 Mobile Security 🔗 Configuration	
	Launch Fad Application Contracting Reconstitutionation and According	8	
	Autors Manager +		
	mum00aom.in.oracle.com Ageitation Domain		
	Application Contains provides a stopping configuration for memory and of researchers, and the stopping of the	mit The samescaled policies That clubate what care access specific producting resources.	
	Second second end and an interest when the second s		
	SHALL IN KINDS - UNAVELING FOR YOU THERE IT OUT TO UNAVELAND	on roct summ to share a time two	
	Ados • Tex • + Onle > Darlott / Sit X Der	· Eleno	
	Row Name Page Sensors Palar	Description Policy of datase datase produce. July resources to Net only: It share another sectors	
	2 Protected Researce Poly	Policy set during during markets Automaticates to the policy to protect them.	
	Name		
	Copyright # 2000, 12 YE, Oracle and the de affiliates. All spits rearrant		
muntilianus cada con 200/personala/hara	interview, and a first enterprise for \$200, all one in \$100000000000		
Constant of the local data and	and the state of the second		

Click on Protected Resource Policy

						ana •	
ORACI	_E' Access Management	E.	Application Security	A redention	Mobile Security	d ² Contigoration	
Launch Pod Appl	later Donain an marillance a sub	ant y manife	in Acetalan			8	
line man	10						
Protected Ro Adhenicatur Peter price san to option	esource Policy Automation orthog for type of writeday that must it to protect you ar many resources in the	Policy De performed to pro Application Divinger	onte a sufficient lavet al tract for Access 1	Manager to grant acc	a no to the user making th	kaplicate Apple respend A single	
" Nere	Protected Resource Policy		lactors SRL				
Description	Pality we during domain propiler. Latt This policy to protect them.	inst Scied Do (h) Re voir.	denge certhalism required in authority				
* Authentication	ORDLogitidene						
	Adapti re Authentic adore Sicharres						
Resources Re	Best FAOcheme						
	EquicScherre Eucl:Sensionlaw/Cicherre						
Resources	CLIPLaptSchene ESSCP10.AdtrSchene FildeteLccsSchene						
Resource 1	Falettion/Tioteme	L.	Guery String				
HIP	Federatorischeine	1304					
HTTP	UD4PticPassoon/VatalonSchene	Enangenert .					
HTTP	LOAPSchene	Deris Taris					
HTTP	GA40Basic						
HILE .	GAM KigSchame GAMAdmitCons (#Schame	- separation					
atter	0.MtD4PPbgnAuthe3oteme	septement more					
HTTP	United Spreamer	And the last					
HTTP	ChErk.oprichana	mile sizes him					
14 10						+	
Casurg44 # 2010.201	1. Davis service to altimate All spin-law	cied					

Select the Scheme create for Login from the Authentication Scheme drop-down.

Click on Apply to save the changes.

• Manage User Identity Stores

For modifying the OAM Identity Store to store LDAP details, click on Configuration button available on the top-right corner.



Click on User Identity Stores.

	ess Management	Application S	ecurity 👗 Federation	Mobile Security Configuration
aunch Pad User Identity Store	15 X			13
Configuration >				
Iser Identity Stores				
Default and System Store				Apply
Default Sto	useridentityStore1 •			
System Sto	useridentityStore1 •			
A OAM ID Stores	This includes ISO Dealling from	in an excelored in the same from (P.S. Proster	hu dia a	Sync ID S Profiles
anage local oser loening oures.	uplicate 🖉 Edit 💥 De	stete	DURDIT.	
View 🔻 🕂 Create 🔿 D	decision & state here a			
View ▼ - Create	Directory Type	Host Information	Description	Synched IDS Profiles
View 👻 🕂 Create 🔿 D Name UseridentityStore1	Directory Type EMBEDDED_LDAP	Host Information	Description	Synched IDS Profiles No
Mere	Directory Type ENBEDDED_LDAP enon service used by Oracle Io synchronized.	Host Information Idap-host7001	Description	Synched IDS Profiles No
View	Directory Type ENBEDDED_LDAP enon service used by Oracle to synchronized. Y Service Profiles. IDS Profiler IDS Profile button	Host Information Idap-host7001	Description	Synched IDS Profiles No IDS Profiles can be used within Oracle Create Form-Fill Application IDS Profile IDS Profiles created outside Oracle Access
View	Directory Type ENBEDDED_LDAP Remon service used by Oracle Id synchronized. I/S Profiles IDS Profiler IDS Profile button	Host Information Idap-host/2001 tentity Management products to access and ma is created here will appear in QAM ID Stores tab	Description Inage Identity Directory. The le. You have to synchronize	Synched IDS Profiles No IDS Profiles can be used within Oracle Create Form-Fill Application IDS Profile IDS Profiles created outside Oracle Access
View	Directory Type ENBEDDED_LDAP Re non service used by Oracle Id synchronized. IDS Profiles IDS Profiler IDS Profile button dit 3% Delete Description	Host Information Idap-host/2001 tentity Management products to access and ma is created here will appear in CAM ID Stores tab	Description Inage Identity Directory. The Ie. You have to synchronize ame Create	Synched IDS Profiles No IDS Profiles can be used within Oracle Create Form-Fill Application IDS Profile IDS Profiles created outside Oracle Access ed By

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

DRACLE	Access Management	Application Security	Federation	Mobile	Security of Co	nfiguratio
Launch Pad User Identity (ltores x UserktentityStore1 x					12
Configuration -						
UserIdentityStore1	User Identity Store Service	Default Store	System Store	Duplicate	Test Connection	Apply
Store Name	UserIdentityStore1		🗐 Enable SS	iL.		
* Store Type	Embedded LDAP: Oracle WebLogic Embedded LDAP +		Use Nativ			
Description		Prefetched Attribute				
I Password Managem	ent .					
Enable Password Manag	ement					

Now, Select the Store Type depending on the LDAP to be used and you will be shown additional fields to provide further details as shown below.

o o o i i a o i a o i a i a i a i a i a	water reacting where we re-						
Store Name U	seridentlyStore1				Enable S	5.	
* Store Type 0	UD: Oracle Unified Directs	ry			E Use Nativ	ve ID Store Settings	
Description				Prefetched Attributes			
Description							
# Location and Credent	tials						
* Location 10	iap-host 7001	1.		* Password			
" Bind DN gr	n=Aamin						
J Users and Groups							
	* Login ID Attribute	uid					
U	ser Password Attribute	userPaseword					
	* User Search Base	ou-people.ou-myreak	m,dc+base_domain				
Use	er Filter Object Classes						
	Group Name Attribute						
	* Group Search Base	oungroups,ounmyreal	in.do+base_domain				
	Group Filter Classes						
Enable Group Membership (Cache						
Group Membership	p Cache Moximum Size	0					
Group Membership	Cache Time to Live (in seconds)	0					
Connection Details							
Minimum Poo	Size 0 A			Results time limit (in se	conds)	0 -	
Maximum Poo	i Stav 0 A			Retry	Count	0 -	
Wait Timeout (in seco	- A 0 (ebrec			Referra	e Policy	•	
Inactivity Timeout (in seco	e bne						
J Password Management	nt						
Enable Password Manageme	ent						

Enter the following details:

Location: Provide the LDAP hostname and port in the following form:

<hostname>:<port>

Base DN: This will be the LDAP username e.g. cn=orcladmin

Password: Enter the LDAP user's password.

User	Search	Base:	Provide	the	user	search	hierarchy	e.g.
cn=Usei	rs,dc=in,dc	=oracle,do	c=com					

Group Search Base: Provide the group search hierarchy e.g. cn=Groups,dc=in,dc=oracle,dc=com

Now, check the **Enable Password Management** checkbox at the end and provide the details in the fields as shown below.

Click Apply to save the changes.

Note : After mapping the LDAP server details in OAM ID Store, login to the oamconsole will be only allowed using the LDAP admin user credentials. The user details can be found in the usergroup.ldif file attached in the Section 7.1.4 "Creating the Attribute, Object Schema, User and Groups on LDAP Server" of this document.

• Copying the artifacts generated after registering Webgate

Registering the new WebGate agent will generate the following files and artifacts either in <IDM_HOME>/oam/server/rreg/client/rreg/output/Agent_ID directory or else in <Oracle_Home>/user_projects/domains/<oam_domain>/output/Agent_ID directory:

- 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.
8. LDAP Installation and Configuration

This chapter describes the different ways of installing the Lightweight **D**irectory **A**ccess **P**rotocol (LDAP) server in the following sections respectively:

- Section 8.1, "Using Oracle Unified Directory"
- Section 8.2, "Using Open LDAP"
- Section 8.3, "Creating Weblogic Domain for Oracle Unified Directory"
- Section 8.4, "Creating the Attribute, Object Schema, User and Groups on LDAP Server"

8.1 Using Oracle Unified Directory

Oracle Unified Directory is a comprehensive next generation directory service. It is designed to address large deployments and to provide high performance, and is highly extensive. Oracle Unified Directory is easy to deploy, manage, and monitor.

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

- Section 8.1.1, "Installing and Configuring Oracle Unified Directory"
- Section 8.1.2, "Verifying the Installation"

8.1.1 Installing and Configuring Oracle Unified Directory

- Obtain OUD from the Oracle Fusion Middleware Downloads. Download OUD.zip file to a directory, and unpack the downloaded archive that contains the installer. By default, this directory is named OUD.
- Now to start the installer, go to the directory where you unpacked the archive file and switch to the Disk1 directory.

Start the installer from the Disk1 directory (On UNIX)

./runInstaller – jreLoc Java_Home/jdk

Note : You must enter the absolute path of the JRE folder located in this JDK when launching the installer.

- 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.

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.	

Table: Inventory Directory and Group Screens

Screen	Description and Action Required
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.

Oracle Unified Directory Installation - Step 1 of 7 _ ×		
Welcome	FUSION MIDDLEWARE 118	
Velcome Install Software Updates Prerequisite Checks Installation Location Installation Summary Installation Progress Installation Complete	Welcome to Oracle Fusion Middleware 11g Oracle Unified Directory (OUD) Installer. For additional information and installation instructions, please refer to the Oracle Fusion Middleware Installation Guide for Oracle Unified Directory. For more information, refer to the Oracle Fusion Middleware Enterprise Installation Guide. Click Help at any time for context-sensitive help. Click Next to begin the installation. Copyright (c) 1999, 2015, Oracle and/or its affiliates. All rights reserved.	
Help	< <u>Back</u> <u>Next</u> > Einish Cancel	

Welcome Screen

The Welcome screen is displayed each time you start the installer. Click Next to continue.

Install Software Updates Screen

Install Software	Updates
Welcome Skip Software Updates Prerequisite Checks Installation Location Installation Summary Installation Progress Installation Complete	Skip Software Updates Search My Oracle Support for Updates Usgr Nam e Password Proxy Settings Coal Directory Search Local Directory: Search For Updates
Help	< <u>Back</u> <u>Next></u> Einish Canc

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.

Prerequisite Ch	ecks			eware 11
Welcome	Selection	Check	Progress	Status
Skip Software Updates	4	Checking operating system certific	100%	1
Prerequisite Checks	4	Checking recommended operating	100%	1
Installation Location	V	Checking kernel parameters	100%	4
Installation Summary	V	Checking Recommended glibc ver	100%	1
Installation Progress	2	Checking physical memory	100%	1
		Abort	Retry) <u>C</u> ontinue

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.

If you want to ignore the error or warning messages and continue with the installation, click Continue.

To stop prerequisite checking for all components, click Abort.

Specify Installation Location Screen

Oracle U	Inified Directory Installation - Step 4 of 7 ×
Specify Installation	on Location
Welcome	
Skip Software Updates	
Prerequisite Checks	
Installation Location	
Installation Summary	
Installation Progress	OUD <u>B</u> ase Location Home: scratch/Oracle/Middleware Browse
Installation Complete	Oracle Home Directory: Oracle_OUD1
	Provide a valid Unified Directory Base location
Help	< <u>Back</u> <u>N</u> ext > <u>Einish</u> Cancel
	Elapsed Time: 1m 9s

Specify the following installation locations:

Oracle Middleware Home

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

Oracle Home Directory

The directory name for your Oracle home:

- You can specify a pre-existing directory that you want to use as the Oracle home; the directory must be an empty directory.
- You can specify the name of a new directory that will be created for you inside the Middleware home.

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 OUD_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 (\\).

Installation Summary Screen

Oracle Unified Directory Installation - Step 5 of 7 _ ×		
Installation Sum	mary CRACLE FUSION MIDDLEWARE 118	
Welcome	⊡Install OUD	
Skip Software Updates	Directory Details	
Prerequisite Checks		
Installation Location	Disk Space	
Installation Summary	Required: 150 MB	
 Installation Progress 	□Applications	
i O Installation Complete	Installing Oracle Unified Directory Products	
	Save Response File: Save To change this configuration before installing, select the topic you want to change in the pane on the left. To install this configuration, select Install.	
Help	< <u>B</u> ack <u>N</u> ext > <u>Install</u> Cancel	
	Elapsed Time: 1m 59s	

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.

If you want to quit before the installation is completed, click Cancel. Doing so will result in a partial installation; the portion of the software that was installed on your system before you click Cancel will remain on your system, and you will have to remove it manually.

Installation	Complete	Screen
--------------	----------	--------

Oracle L	Unified Directory Installation - Step 7 of 7 $$ \times
Installation Com	plete
 Welcome 	⊡Install OUD
kip Software Updates	Directory Details
Prerequisite Checks	
 Installation Location 	E-Disk Space
 Installation Summary 	Oracle Home Size: 205 MB
Installation Progress	Available: 7080 MB
Installation Complete	Installing Oracle Unified Directory Products
	Save Installation Details: Save
Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Cancel
	Elapsed Time: 4m 44s

This screen summarizes the installation that was just completed.

You can also save this summary information to a file for future reference by clicking Save. You will be prompted to specify a name and location for your summary file.

Click Finish to dismiss the screen.

 After the installation of OUD, go to the OUD_Oracle_Home directory and start the oud-setup.sh as follows,

cd /ORACLE_HOME/Oracle_OUD1/

./oud-setup

• After starting the oud-setup, follow the steps as shown below:

	Oracle Unified Directory Setup _	n x
Welcome	Welcome	
Server Settings	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.	
Topology Options	seenige min tim get jaar serier de min runneng derenigt	
Oracle Components Integration		
Server Tuning		
Review		
Progress		
Finished		
	Next >	Quit

Welcome Screen

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

Server Settings Screen

	Oracle Unified Directory S	Setup _ 🗆	×
Welcome Server Settings Topology Options Directory Data Oracle Components Integration Server Tuning Review Progress Finished	Server Settings Enter a port to listen for LDAP request Host Name: LDAP Listener Port: Administration Connector Port: LDAP Secure Access: Root User DN: Password: Password (confirm):	s and enter a password for the server initial Root user. ofss312890 in oracle.com 2389 Could not use 389. Port in use or user not authorized. 5444 Could not use 4444. Port in use or user not authorized. disabled Configure cn=orcladmin *******	
	< Previous Next >	Quit]

Enter the details as shown in the figure below:Host Name: Enter the directory server's host name or IP address.

LDAP Listener Port: Enter the LDAP port for the directory server.

Administration Connector Port: Enter the port that will be used for administration traffic. The default administration port is 4444.

	Oracle Unified Directory Setup - E	x
Welcome Server Settings Topology Options Directory Data Oracle Components Integration Server Tuning Review Progress Finished	Topology Options Choose the Data Replication Options. You can change these settings later using the 'dsreplication' command-line. This will be a stand alone server This server will be part of a replication topology Replication Port: Goong as Secure There is already a server in the topology Host Name: Administration Connector Port: Administration Connector Port:<th></th>	
	< Previous Next > Qu	it

Topology Options Screen

Select This will be a stand alone server.

Click Next.

Directory Data Screen

entration in the second se	Oracle Unified	Directory Setup	×
Welcome Server Settings Topology Options Directory Data Oracle Components Integration Server Tuning Review Progress Finished	Directory Data Choose options for the Directory Base DN: Directory Data:	LDAP data to be hosted by the server.	
	< Previous Next >		Quit

Specify how to load data into your directory

Directory Base DN: Enter the base DN for your directory.

dc=in,dc=oracle,dc=com

Directory Data: Select the following data option: Only Create Base Entry: Creates an entry with the base DN specified previously.

Click Next.

Oracle Components Integration Screen

Oracle Unified Directory Setup D x		
Welcome Server Settings Topology Options Directory Data Oracle Components Integration Server Tuning Review Progress Finished	Oracle Unified Directory Setup 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 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	

Select No specific integration as we want a standard installation. This is the default option.

Click Next.

Server Tuning Screen

	Oracle Unified Directory Setup _ 😑	×
Welcome Server Settings Topology Options Directory Data Oracle Components Integration	Server Tuning Select how you want the OUD server to be tuned. The default proposed settings are calculated based on the free memory available in the machine. This is the recommended value if you do not have special requirements. You can change these settings later using the 'dstune' command-line. Options: Providing Runtime Options	5
Server Tuning Review Progress Finished	You are running a non HotSpot(TM) JVM (OpenJDK 64-Bit Server VM). To be able to tune the server using the automatic mode or using other criteria (like providing some memory limitation), you must use a HotSpot(TM) Java Virtual Machine (like the Oracle Java Standard Edition).	
	You tame the OUD server by providing directly the JVM runtime options you want it to use. The off-line tools are: import-ldif, export-ldif, verify-index and rebuild-index. Server Runtime Settings: java arguments: -server Change Off-line Tools Runtime Settings: java arguments: -server Change Reset to Default	
	< Previous Next >	iit

The Server Tuning screen enables you to tune Oracle Unified Directory server by selecting one of these options: Providing the specific memory to be dedicated to the server.

Explicitly providing the run-time settings (JVM arguments) to be used by the server and the off-line tools (import-ldif, export-ldif, verify-index, and rebuild-index).

To reset any changes to the default values, click Reset to Default.

Click Next.

Review Screen

	Oracle Unified Directory Setup			- • ×
Welcome	Review			
Server Settings	Review your settings and click Finish if they a	re correct.	Show Summary	~
Topology Options	Host Name:	ofss312890.in.or	racle.com	
Directory Data	LDAP Listener Port:	2389		
Oracle Components Integration	Administration Connector Port:	5444		
Server Tuning	LDAP Secure Access:	disabled	disabled	
Server running	Root User DN:	cn=orcladmin		
Review	Directory Data:	Create New Base Base DN Data: O	e DN dc=in,dc=oracle,dc=com nly Create Base Entry (dc=in,dc=or	acle,d
Progress		c=com)		
Finished	Integration with Oracle components:	No Integration		
	Runtime Options:	Use Custom Valu Use Custom Valu	ues for Server Runtime (-server) ues for Off-line Tools (-server)	
	_			
	✓ Start Server when Configuration has Comp	leted		
(< Previous Finish			Quit

Review your configuration and Select Start Server when Configuration has Completed to start the server after the directory server has been configured.

Click Finish.

Configuration Done Screen

	Oracle Unified Directory Setup
Welcome Server Settings Topology Options Directory Data Oracle Components Integration Server Tuning Review Progress Finished	Oracle Unified Directory Setup X Progress Creating Base Entry Creating Base Entry Cancel Details: See /scratch/latest_softwares/Oracle/Middleware/asinst_2/OUD/logs/oud-setup for a detailed log of this operation. Configuring Directory Server Done Creating Base Entry dc=in.dc=oracle.dc=com
	Close

After the processing is done i.e., after creating directory server is done and starting directory Is done click close.

8.1.2 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. On UNIX systems, if you do not know the location of your Oracle Inventory directory, you can find it in the OUD_ORACLE_HOME/oraInst.loc file.

• Checking the Browser URLs

Use the port numbers of OUD provided during configuration, by default UserDN port is 1389 and Admin Connector Port is 4444. Check if there is any process running on the port. Use the following command:

netstat -tulpn | grep <port_number>

To check the URLs, use the format:

http://system_name:port_number/odsm

8.2 Using Open LDAP

- OpenLDAP Software is an open source implementation of the Lightweight Directory Access Protocol using sldap configuration.
- Refer to the OpenLDAP-Configuration document located at svn/clip/trunk/core/reference/product security/OpenLDAP-Configuration.docx for detailed information.

8.3 Creating Weblogic Domain for Oracle Unified Directory

• Start the Weblogic Configuration Wizard, by executing the below command:

<Oracle_Home>/wlserver_10.3/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

:LE:
Next

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

Select Domain Source Screen

🛐 Fusion Middleware Configuration Wizard _ ×
Select Domain Source
• Generate a domain configured automatically to support the following products:
Oracle Identity Manager - 11.1.2.0.0 [Oracle_IDM1]
Oracle Access Management And Mobile Security Suite - 11.1.2.3.0 [Oracle_IDM1]
Oracle Adaptive Access Manager - Server - 11.1.2.0.0 [Oracle_IDM1]
Oracle Adaptive Access Manager Offline - 11.1.2.0.0 [Oracle_IDM1]
Oracle Adaptive Access Manager Admin Server - 11.1.2.0.0 [Oracle_IDM1]
Oracle Entitlements Server for Managed Server - 11.1.1.0 [Oracle_IDM1]
Oracle Entitlements Server for Admin Server - 11.1.1.0 [Oracle_IDM1]
Oracle Privileged Account Manager - 11.1.2.0.0 [Oracle_IDM1]
Oracle Enterprise Manager - 11.1.1.0 [oracle_common]
Oracle BI Publisher - 11.1.1.6.0 [oracle_bip]
Oracle BI JDBC - 11.1.1.9.0 [oracle_bip]
✓ Oracle Directory Services Manager - 11.1.2.3.0 [Oracle_OUD1]
🗌 Oracle Entitlements Server Weblogic Security Module On Weblogic Managed Server and JRF - 11.1.1.0 [Oracle_IDM1]
Oracle Entitlements Server Weblogic Security Module On JRF - 11.1.1.0 [Oracle_JDM1]
O Base this domain on an existing template
Template location: /scratch/Oracle/Middleware Browse
Exit Help Previous Next

Use this screen to select the components that you want to configure.

For Oracle Access Manager, select the Oracle Directory Services Manager - 11.1.2.3.0 [OUD_HOME]

Click Next to continue.

Note : On selecting Oracle Entitlement Server option, Oracle JRF option gets selected by-default.

Specify Domain	Name	and I	Location	Screen
-----------------------	------	-------	----------	--------

	Fusion Middleware Configuration Wizard	_ ×
Specify Domain Name and Loc	ation	ORACLE
	Enter the name and location for the domain:	
Domain name:	oud_domain	
Domain location:	/scratch/Oracle/Middleware/user_projects/domains	Browse
E <u>x</u> it <u>H</u> elp		Previous <u>N</u> ext

Specify the following locations:

• Domain name

Specify the name of the domain.

Domain location

The default locations for the domain home is

<Oracle_HOME>/user_projects/domains

However, the domain home directory can also be created outside of Oracle home.

Here, Oracle Home directory is where the Weblogic Server is installed.

Click on Next.

٦	Fusion Middleware Configuration Wizard	_ × _
Configure Administrato	r User Name and Password	ORACLE
O Dis <u>c</u> ard Changes		
*Name:	weblogic	
*User password:	****	
*Confirm user password:	*****	
Description:	This user is the default administrator.	
E <u>x</u> it <u>H</u> elp		Previous Next

Configure Administrator User Name and Password Screen

This screen is to provide the username and password for the Weblogic Administrator. The default username is **weblogic**. The user can provide a different username. Then, Click on Next.

Configure Server Start Mode and JDK Screen

Fusion Middle	ware Configuration Wizard _ ×
Configure Server Start Mode and JDK	ORACLE [.]
Before putting your domain into production, make sure the 'Securing a Production Environment' in the WebLogic Serve	at the production environment is secure. For more information, see the topic er documentation.
WebLogic Domain Startup Mode	JDK Selection
Development Mode Utilize boot.properties for username and password and poll for applications to deploy. Sun JDK recommended for better startup performance during iterative development.	● Available JDKs Sun SDK 1.7.0_79 @ /scratch/latest_softwares/java/j¢
Production Mode Require the entry of a username and password and do not poll for applications to deploy. WebLogic JRockit JDK recommended for better runtime performance and management.	Image: Context JDK Location:
I Exit Help	Previous Next

Choose a JDK from the Available JDKs.

Select a mode under the Weblogic Domain Startup Mode.

Click Next.

Fusion M	dleware Configuration Wizard _ ×
Select Optional Configuration	ORACLE
☑ Ad M □ Ma A M □ De T □ RD M	nistration Server fy Settings ged Servers, Clusters and Machines or Delete fy Settings syments and Services et to Servers or Clusters S Security Store fy Settings
E <u>x</u> it <u>H</u> elp	Previous Next

Select Optional Configuration Screen

Choose the options to configure from the following list:

- Administration Server
- Managed Servers, Clusters and Machines
- Deployments and Services
- RDBMS Security Store

Select Administration Server and Click on Next.

Configure the	Administrator	Server Screen
----------------------	---------------	---------------

	Fusion Middleware Configuration Wizard	_ ×
Configure the Adr	ninistration Server	ORACLE
Ois <u>c</u> ard Changes		
*Name:	AdminServer	
*Listen address:	All Local Addresses	
Listen port:	7001	
SSL listen port:	N/A	
SSL enabled:		
E <u>x</u> it <u>H</u> elp]	Previous Next

Specify the following details of the Administration Server in this screen:

- Name
- Listen address
- Listen port
- SSL listen port (Only if SSL is enabled)
- SSL enabled

After entering the details, click on Next.

Configuration Summary Screen

🛐 Fusion Middleware Configuration Wizard _ ×				
Configuration Summary		ORACLE		
Domain Summary Summary View. Deployment	Click on an ite in the Details p to return to a p	m in the Domain Summary pane on the left to inspect its attributes bane below. You can make limited adjustments by clicking Previous prior panel. If everything is satisfactory, click Create.		
	Details			
Server	Attribute	Value		
AdminServer	Name	Basic WebLogic Server Domain		
E Service	Description	Create a basic WebLogic Server domain without installing sam		
😑 🧰 Shutdown Class	Author	Oracle Corporation		
JOC-Shutdown	Location	/scratch/Oracle/Middleware/wiserver_10.3/common/templat		
DMSShutdown				
🖃 🛅 Startup Class	Name	Oracle Directory Services Manager		
IRF Startup Class	Description	Oracle Directory Services Manager Extension Template		
- IPS Startun Class	Author	Oracle Corporation		
- ODL-Startup	Location	/scratch/Oracle/Middleware/Oracle_OUD1/common/templat		
AWIT Application Context Star				
MY Example of Startup Class	Name	Oracle WebCenter Composer Extension		
Web Services Startup Class	Description	This template configures Oracle WebCenter Composer and dej		
Web Services Startup Class	Author	Oracle Corporation		
JOC-Startup	Location	/scratch/Oracle/Middleware/oracle_common/common/temp		
DMS-Startup				
🖃 💼 WLDF System Resource	Name	Oracle WebCenter Composer		
Module-FMWDFW	Description	This template configures Oracle WebCenter Composer and del 👻		
	•			
E <u>x</u> it <u>H</u> elp		Previous Create		

Review the domain configuration on this screen.

If you want to make any changes to the configuration before creating the domain, click Previous to navigate to the selected screen where you want to edit the details.

Click Create to start creating the domain.

By default, a new Weblogic Domain to support Oracle Unified Directory is created in the <Oracle_Home>/user_projects/domains directory.

Creating Domain Screen

	Fusion Middleware Configuration Wizard _ ×
Creating Domain	ORACLE [.]
	Progress:
	Extracting Domain Contents Extracting Domain Security Information Saving the Domain Information Storing Domain Information String Substituting Domain Files Performing OS Specific Tasks Performing Post Domain Creation Tasks Domain Created Successfully! Domain Created Successfully! Domain Location: /scratch/Oracle/Middleware/user_projects/domains/oud_domain Admin Server URL: http://ofss312890.in.oracle.com:7001
ORACLE	
E <u>x</u> it <u>H</u> elp	Previous Done

This screen summarizes the domain creation information that was just completed.

Click Done to dismiss the screen.

After configuring Oracle Unified Directory in a Weblogic Administration Domain, the Admin Server should be started to access the Directory Service on browser using the URL *http://<ldap_hostname>:<ldap_port>/odsm*

8.4 Creating the Groups, Users, Attributes and Object Class in Oracle Unified Directory.

1. <u>To create Attributes</u>



• Copy the "**attributes.Idif**" file 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>/attributes.ldif

• Login to ODSM Console. E.g. *http://<hostname>:<port>/odsm* and under the Schema tab check if the following attributes are created:

- businessUnit
- homeBranch
- fcRoleId
- fcUserType
- partyld
- partyName
- targetUnit

2. To create a Object Class



objectclass.ldif

• Copy the "**objectclass.Idif**" file 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:

./Idapmodify -h localhost -p <Idap_port> -D "Idap_user" -w <Idap_password> -a -f <file_location>/objectclass.Idif

 Login to ODSM Console. E.g. *http://<hostname>:<port>/odsm* and under the Schema tab check if the 'fcPerson' and 'fcRole' object class is created.

3. <u>To create Groups and Users</u>



usergroup.ldif

• Copy "**usergroup.Idif**" file to a location on the servers where OUD is installed and switch to the following directory:

cd <Oracle_Home>/Oracle_OUD1/bin

• Now, execute the below command to create groups & users:

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

• Login to ODSM Console. E.g. *http://<hostname>:<port>/odsm* and under the Data Browser tab, check if the users and groups are created.

4. Adding Optional Attributes

• Login to ODSM Console. E.g. http://<hostname>:<port>/odsm.

ory Connections E OUD ×		
kome 隆 Data Browser 🐼 Advanced Search 🖉 Config	ation 🛃 Schema 👌 Security 🐱 Metrics	
Network Group network-group		
Bata Tree 🖌 Search		
View 🗸 📑 🖌 👔 🥒 🕐 😵 隆 🖓 👘 🖓		
Entry		
A DRoot		
⊿ Q dc=in,dc=oracle,dc=com		
> Q0 cn=Groups		
) (g) CI=OSEIS		
	•	

• Under the Data Browser tab, expand the Groups

tory Connections I OUD ×							
Home Bata Browser 🕺 Advanced Search 🖉 Configura	tion 🖁 🖁 Schema	a 🐍 Security 🙆 Me	etrics				
Network Group network-group 🔻	🐯 cn=Ad	lministrator				Refresh	Apply Re
隆 Data Tree 🔍 Search	Disting	uished Name cn=Administ	rator,cn=Groups,dc=in,dc=oracle,dd	c=com			1100
View - 📑 - 📑 🥒 🗶 🗞 🦉 🌾 🔄 😭	Creat	ted by cn=orcladmin	Modified by cn=orclas	dmin			
Entry	Crea	ted at July 25, 2016 5:31:	16 PM IST Modified at Septembe	er 15, 2016 9:11:49 AM IS	т		
A B Root	Group Pag	Attributes					
🛛 🤤 dc=in,dc=oracle,dc=com	Group rug	C Attributes					
🔺 🍪 cn=Groups		* Common Name	Administrator				
D 🐯 cn=Administrator			Hammordeon				
> 🔯 cn=Administrators							
> 🔯 cn=AuthAdmin	⊿ Group	Information					
b & cn=Checker		Organization Unit	Admin		Description		
Constructioner		Organization			Business Category		
Q CII=MdKel As co-Pataillicar	•	Ouper		Q Calact	See Also		0.0
B cn=Viewer		Owner		Select	Jee Also		- 1 26
N 86 cn=Users							
	> Memb	er Information					

• Select a particular group, e.g. **cn=Administrator**.

Internelling Both Both Configuration Both Config	Directory Manager Topology Manager						
Image: State arrowser: Work names and the state of t	Directory connections at ODX	R church R church Rad Mart					l
	Data browser CO Advanced search @ Coningurado	n 🐴 schema 🍋 secunty 😡 Met	nes				
Seture Seture Seture Verv Seture Seture Seture Seture Seture <th>Network Group network-group</th> <th>🖏 cn=Administrator</th> <th></th> <th></th> <th>Refresh</th> <th>Apply</th> <th>Revert</th>	Network Group network-group	🖏 cn=Administrator			Refresh	Apply	Revert
View Image: Construction of the construction	Pata Tree Q. Search					*	*Required
Bitry Bitry <td></td> <td>Distinguished Name Cn=Administr</td> <td>ator,cn=Groups,dc=In,dc=oracle,dc=com</td> <td></td> <td></td> <td></td> <td></td>		Distinguished Name Cn=Administr	ator,cn=Groups,dc=In,dc=oracle,dc=com				
Firey Image: Cool of the period state of the	View - Y - Y / X 12 4 Y 7 🖄 🗹 📿	Created by cn=orciadmin Created at July 25, 2016 5:31:1	Modified by Cn=orciadmin 6 PM IST Modified at Sentember 15 2016 9:11:49 AM IST				
Improve	Entry	Created at 50/y 25, 2010 5.51.1	0 PM 151 Ploaned at September 15, 2010 5,11,45 AM 151				
↓ @uteringtendeddeddig ↓ @uteringtendeddeddig ↓ @uteringtendeddig ↓ @utering ↓ @uteringtendig <td></td> <td>Group Page Attributes</td> <td></td> <td></td> <td></td> <td></td> <td></td>		Group Page Attributes					
> @ cin=Administrators > @ cin=Administrators > @ cin=Chocker		Mandatory Attributes					
> @ on-Adminature > @ on-Adminature > @ on-Adminature > @ on-Adminature > @ on-Corporativer > @ on-Customer > @ on-RetailUser > @ on-RetailUser > @ on-Velver > @ on-Velver > @ on-Velver > @ on-Users	88 cn=4dministrator						
Sign=AuthAdverse Sign=AuthAdverse Sign=Cotororet Sign=Cotororet Sign=AuthAdverse	88 cn=4dministrators	Object Class	👍 Add 💥 Delete				
	88 cn=AuthAdmin		Name				
Sig on=CorporateUser Sig on=ConjorateUser Sig on=ConjorateUser Sig on=ActalUser Sig on=Viewer Sig on=Viewer Sig on=Viewer Optional Attributes	> 88 cn=Checker		groupOfUniquenames	Q Select			
 > @ on=Customer > @ on=RetailUser > @ on=Visver > @ on=Users 	Cn=CorporateUser		6 Pada	O citat			
> @ cn=Maler > @ cn=Viewer > @ cn=Users	kij cn=Customer		IcRole	Select			
> @ cn=Viewer > @ cn=Users Optional Attributes	> 🍪 cn=Maker		top	🔍 Select			
> @ cn=Viewer > @ cn=Viewer > @ cn=Users Value Administrator > Optional Attributes	> 🔯 cn=RetailUser						
Value Administrator Optional Attributes	> 🍪 cn=Viewer	cn	👍 Add X Delete				
Administrator Optional Attributes	Signature Control C		Value				
> Optional Attributes			Administrator				
> Optional Attributes							
		Optional Attributes					

• Now, under the Attributes tab, expand the Optional Attributes.

tory Connections 🗵 OUD ×					
Home Bata Browser 🕺 Advanced Search 🖉 Config	uration 🖁 🖁 Schema 🐍 Se	curity 60	Metrics		
Network Group network-group	🖏 cn=Administr	ator			Refresh Apply
Po Data Tara					*R
B Data Free Search	Distinguished Nar	ne cn=Admi	inistrator,cn=Groups,dc=in,dc=oracle,dc=com		
View 🗸 📑 🖌 😭 🦯 🗶 🇞 🦞 🍸 🎂 🏦 🌘	Created by cn	orcladmin	Modified by cn=orcladmin		
Entry	Created at Jul	25, 2016 5:	31:16 PM IST Modified at September 15, 2016	9:11:49 AM IST	
🔺 🔄 Root	Group Page Attrib	ites			
⊿ 😋 dc=in,dc=oracle,dc=com	croop ruge //ccrb				
🔺 🍪 cn=Groups	Mandatory Attr	butes			
Markov Strate		bject Class	🐣 Add 🕺 Delete		
b 🐯 cn=Administrators					
> 🚳 cn=AuthAdmin			Name		
> 🍪 cn=Checker			groupOfUniquenames	🔍 Select	
Signature State			fcRole	Q Select	
> 🍪 cn=Customer				0.51.5	
> 🖏 cn=Maker	•		top	Select	
> 🍪 cn=RetailUser					
> 🚳 cn=Viewer		ch	🕂 Add 💥 Delete		
			Value		
			Administrator		
	Optional Attribu	tes			Show Attribute
	businesscategory	👍 Add	💥 Delete		
		Value			
		Attributes	are not available.		
	description	👍 Add	💥 Delete		
		Value			
		Attributes	are not available.		

• Click on Show Attributes button.

Home 隆 Data Browser 🐼 Advanced Search 🖉 Configuration	Recurity 66 Metrics	
C Network Group network-group	🍪 cn=Administrator	Refresh Apply Reve
🐮 Data Tree 🔍 Search	Distinguished Name_cn=Administrator.cn=Groups.dc=in.dc=oracle.dc=com	Nequ
View - 🕜 - 🕜 🖊 🗙 🗞 🤻 🍸 🎂 🏠 🔿 Entry	Select Attributes × =orcladmin Filter fd Percent of the second	
a a	Groud Available Attributes Selected Attributes Image: Amail and the select of the sel	
4 •	✓ Optional Attributes businesscategory Add	Show Attributes

• In the Filter type "fc" and click on Search button. It will show a entry for "fcroleid".

Home 🔁 Data Browser 🐼 Advanced Search 🖉 Configuration	🚠 Schema 💊 Security 🔯 Metrics	
Network Group retwork-group South Tree South S	Created by crewordsdmin Modified by crewordsdmin Created by crewordsdmin Strator, crewordsdmin Created by Crewordsdmin Strator, crew	Refresh Apply R *Re
) 👸 cn=Users	Optional Attributes businesscategory Value Attributes are not available. description Add Quete Value Attributes are not available. Value Attributes are not available.	Show Attributes

• Select the entry "fcroleid".

Directory Manager Topology Manager		
🔒 Home 😤 Data Browser 🕺 Advanced Search 🔗 Configuration	🛃 Schema 🗞 Security 🔂 Metrics	
Network Group network-group * Bata Tree Sarch View * * ************************************	Created by on=ordedministrator,on=Groups,dc=in,dc=orade,dc=com Created by on=ordedmin Created by One Created b	Refresh Apply Revert "Required
	Optional Attributes	Show Attributes
	Attributes are not available.	

• Click on the arrow to move the entry on right side.

ctory Connections I OUD ×		
Home 🏽 🎦 Data Browser 🛛 🐼 Advanced Search 🖉 Configuratio	n 🖁 Schema 🐍 Security 🚧 Metrics	
Network Group network-group Data Tree Search View Yew Yew Yew Yew Contemporate de-com Contemporate de-com Contemporate de-com Contemporate de-com Contemporate de-com Contemporate de-com Contemporate de-contemporate de-c	Instruction Distinguished Name on=Administrator,on=Groups,dc=in,dc=oracle,dc=com Created by on=ordadmin Created by on=ordadmin Created at Julia Sector Attributes Select Attributes Filter 1c Available Attributes Select Attributes	Refresh Apply Re
> (3) (3) > (3) (3)	uniquemenher businescategory ≥ seelato owner ou Q Select Q Select Q Select Q Select Q Select	
	OK Cancel	Show Attributes
	Value Attributes are not available. description 👍 Add % Delete	
	Value Attributes are not available.	

• Click Ok and the attribute will be added to the Optional Attribute list.

Directory Manager Topology Manager									
Directory Connections 👔 OUD x									
🔒 Home 隆 Data Browser 🕺 Advanced Search 🔌 Configura	in 🛃 Schema 💩 Security 🍪 Metrics								
Network Group network-group	💱 cn=Administrator	Refresh Apply Revert							
😤 Data Tree 🔍 Search		Kequireu X							
View 🗸 📑 🖌 😭 🥒 🗶 🏷 🖓 🖓 🖕 🏦 🗘	() Information								
Entry	You have unsaved changes.								
Root	National de la Narra de Adriate tentre de la de construit de cons								
⊿ 🍓 dc=in,dc=oracle,dc=com	Distinguished Name cn=Administrator,cn=Groups,dc=in,dc=oracle,dc=com								
⊿ 🔯 cn=Groups	Created by cn=orcladmin Modified by cn=orcladmin								
) 🖏 cn=Administrator	Created at July 25, 2016 5:31:16 PM IST Modified at September 15, 2016 9:11:49 AM IST								
k) k) cn=Administrators	Grun Pane Attributed								
the second seco	A deviation of the second se								
k cn=Checker	Administrator	^							
	Optional Attributes	Show Attributes							
the second seco	A hadron and a second s								
	Businesscategory 👍 Add 💥 Delete								
	Value								
Cn=Users	Attributes are not available.								
	description 👍 Add 💥 Delete								
	Value								
	Attributes are not available.								
	fcroleid 🙀 Add 💥 Delete								
	Value								
	Attributes are not available.								
	° 👍 Add 💥 Delete								
	Value								
	Attributes are not available.								
	· ··	•							

• Now, Click on the '+ Add' button of "fcroleid" attribute.

Home 🛛 😤 Data Browser 🔂 Advanced Search 🖉 Configura	ation	👗 Schema 🛛 🍇 Se	curity	60 Metrics	
Natural Group asturate aroun		🍪 cn=Administra	Refresh Apply		
P Network Group Network-group					*F
🎦 Data Tree 🔍 Search		Distinguished Nan	ne cn	=Administrator,cn=Groups,dc=in,dc=oracle,dc=com	
View - 📝 - 📝 🖉 🕱 🗞 🥘 🍸 🔖 👘 🖒		Created by cn=			
Entry		Created at July	/ 25, 2	2016 5:31:16 PM IST Modified at September 15, 2016 9:11:49 AM IST	
A D Root		Group Page Attribu	iter		
⊿ 😋 dc=in,dc=oracle,dc=com		Group Page Accrise	uces	Administration	
🕢 🔯 cn=Groups				Administrator	
> 🐯 cn=Administrator					
kij cn=Administrators		Optional Attribut	tes		Show Attribute
> 🖏 cn=AuthAdmin		husinggestagen			
Signature Checker		businesscategory	4	Add 😹 Delete	
				Value	
> 🚳 cn=Customer	_		Attr	ibutes are not available.	
G cn=Maker	•	description	4	Add 💥 Delete	
Sign ch=RetailUser	- 17			Value	
Second loop			Attri	ibutes are not available.	
y 🙀 ci-users		K endedd			
		fcroleid	4	Add 💥 Delete	
				Value Value of optional attribute fcroleid	
				EMPLOYEE	
		0		11 00 Line	
			4	Add 🔊 Delete	
				Value	
			Atti	butes are not available.	
		ou	4	Add 💥 Delete	
				Value	
				Admin	

• Refer to the table below and enter the value mentioned for the respective Group which is being modified. E.g. for "cn=Administrator" group the value is "EMPLOYEE".

Groups	Value for 'fcroleid' Attribute
cn=Administartor	EMPLOYEE
cn=AuthAdmin	EMPLOYEE
cn=Checker	CORPORATE
cn=CorporateUser	CORPORATE
cn=Customer	RETAIL
cn=Maker	CORPORATE
cn=RetailUser	RETAIL
cn=Viewer	CORPORATE



• Click on Apply to save the changes.