Installer Pre-Requisite Setup Guide Oracle Banking APIs Patchset Release 22.2.3.0.0

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## ORACLE

Installer Pre-Requisite Setup Guide February 2024

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## 1. Preface

## 1.1 Intended Audience

This document is intended for the following audience:

- Customers
- Partners

## 1.2 **Documentation Accessibility**

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

## 1.3 Access to Oracle Support

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

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

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

### 1.4 Structure

This manual is organized into the following categories:

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

The subsequent chapters describes following details:

- Introduction
- Preferences & Database
- Configuration / Installation.

### 1.5 <u>Related Information Sources</u>

For more information on Oracle Banking APIs Patchset Release 22.2.3.0.0, refer to the following documents:

Oracle Banking APIs Installation Manuals



## 2. Introduction

This guide helps you to do the pre-requisite setup required before the execution of OBAPI 22.2.0.0.0 Installer.

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

## 2.1 Software List

Software Name	Version	Mandatory Software
Operating System	ORACLE LINUX 8.3	Υ
Oracle Database	19.16.0.0.0	Y
Oracle Java Development Kit	11.0.16 or 1.8_341	Y
Oracle Weblogic Server	14.1.1.0.0	Y
Any HTTP Server	NA	Y
Oracle Digital Assistant (ODA)	20.05	N***
Python	3.8.x	Y****
Python Package: cx_Oracle	8.3.0	Y*****
Python Package: urwid	2.1.2	Υ
Flyway	9.8.1	Y*****
Gradle	7.5.1	Y

\* Required if OBAPI Native Authentication is not used and OAM is managing Authentication

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

\*\*\* Required if OBAPI Chat bot Banking Features are used.

\*\*\*\* For python 3 installation refer section **2.3 Pre-requisite software installation and OS configuration for OBAPI Installer – Python 3.8.0 for Linux Operating System** 

\*\*\*\*\* In case of python 3 cx\_Oracle needs to be re-installed.

\*\*\*\*\*\* Required for database files execution



## 2.2 <u>Pre-requisite software installation and OS configuration</u> for OBAPI Installer

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

[root@	-	_	~]#	python3.8	-V
Python	3.8.0				
r 10	<b>C</b>	170	ע ר		

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

#### **Flyway Installation**

Download the flyway version 9.8.1 zip file from flyway site

Unzip the downloaded zip file into the desire path.

Example :-

cd /home/obdxuser

tar -xvzf flyway-commandline-9.8.1-linux-x64.tar.gz

FLYWAY\_HOME=/home/obdxuser/flyway-9.8.1

(flyway home path will be /home/obdxuser/flyway-9.8.1)

#### **Gradle Installation**

Download the gradle zip file from the gradle site

Unzip the downloaded zip file into the desire path

Example :-

cd /home/obapiuser

unzip gradle-7.4.2-bin.zip

**GRADLE\_HOME=**/home/obapiuser/gradle-7.4.2

#### cx\_Oracle (Software Installation)

Step 1: Oracle Instant Client

Download oracle-instantclient19.10-basic-19.10.0.0.0-1.x86\_64.rpm from site https://yum.oracle.com/repo/OracleLinux/OL7/oracle/instantclient/x86\_64/getPackage/oracleinstantclient19.10-basic-19.10.0.00-1.x86\_64.rpm



#### Run the below command

dnf install oracle-instantclient19.10-basic-19.10.0.0.0-1.x86\_64.rpm

<pre>[root8c'</pre>	0-basic-19.10.0.0.0-1.x86 e-instantclient19.10-basic o on Tue 08 Jun 2021 07:13	64.rpn -19.10.0.0.0-1.x86_64.rpm :09 AM GMT.	en en Romandak	
Package	Architecture	Version	Repository	
Installing: oracle-instantclient19.10-basic Installing dependencies:	x36_64	19.10.0.0.0-1 2.28-127.0.3.e18.3.2	@commandline	52 M
Transaction Summary	<u></u>		010_us_bubcob_puto.r	
Install 2 Packages				
Total size: 52 M Total download size: 100 k Installed size: 227 M Is this ok [y/N]: y Downloading Packages: limncl 2.28 127.0.3.01_3.2.x86_64.rpm			17 M⊟/¤   100 ki	
Total g transaction check Rumming transaction check Jumning transaction test Transaction test succeeded. Rumning transaction Preparing : Installing : libssl-2.20-127.0.3.e Installing : cacle_instactiontl Verifying : libssl-2.20-127.0.3.e Verifying : cacle_instactiolentl	18_3.2.x36_64 9.10-basis-19.10.0.0.0-1.x 9.10-basis-19.10.0.0.0-1.x 10_3.2.x36_64 9.10-basis-19.10.0.0.0-1.x	96 64 96 64 96 64	9.7 МВ/в   100 kl	3 00:00 1/1 1/2 2/2 2/2 1/2 2/2
Installed: libns1-2.28-127.0.3.e18_3.2.x86_64			19.10.0.0.0-1.x86_64	
Complete! [root@cf				

#### Step 2: Install cx\_Oracle

- a. Download cx\_Oracle from cx\_Oracle (or cx-oracle org) website
- b. Extract the tar file as shown below

[obdxdevops@ofss-mum-1460 OBDXINS_22]\$ tar -xvf cx_Oracle-8.3.0.tar.gz
cx_Oracle-8.3.0/
cx_Oracle-8.3.0/LICENSE.txt
cx_Oracle-8.3.0/MANIFEST.in
cx Oracle-8.3.0/PKG-INFO
cx Oracle-8.3.0/README.txt
cx_Oracle-8.3.0/cx Oracle.egg-info/
cx_Oracle-8.3.0/cx_Oracle.egg-info/PKG-INFO
cx_Oracle-8.3.0/cx_Oracle.egg-info/SOURCES.txt
cx_Oracle-8.3.0/cx_Oracle.egg-info/dependency_links.txt
cx_Oracle-8.3.0/cx_Oracle.egg-info/top_level.txt
cx_Oracle-8.3.0/odpi/
cx_Oracle-8.3.0/odpi/embed/
cx_Oracle-8.3.0/odpi/embed/dpi.c
cx_Oracle-8.3.0/odpi/include/
cx_Oracle-8.3.0/odpi/include/dpi.h
cx_Oracle-8.3.0/odpi/src/
cx_Oracle-8.3.0/odpi/src/dpiConn.c
cx_Oracle-8.3.0/odpi/src/dpiContext.c
cx_Oracle-8.3.0/odpi/src/dpiData.c
cx_Oracle-8.3.0/odpi/src/dpiDebug.c

c. Browse into the extracted directory and run below command

python3.8 setup.py build\_py



d. Execute below command to perform Urwid installation



python3.8 setup.py install

<pre>pash-4.4# python3.8 setup.py install</pre>
running install
running bdist_egg
running egg_info
writing cx Oracle.egg-info/PKG-INFO
writing dependency links to cx Oracle.egg-info/dependency links.txt
writing top-level names to cx_Oracle.egg-info/top_level.txt
reading manifest file 'cx Oracle.egg-info/SOURCES.txt'
reading manifest template 'MANIFEST.in'
no previously-included directories found matching 'odpi/test'
no previously-included directories found matching 'odpi/samples'
writing manifest file 'cx_Oracle.egg-info/SOURCES.txt'
installing library code to build/bdist.linux-x86 64/egg
running install lib
running build ext
puilding 'cx Oracle' extension



#### **Urwid (Software Installation)**

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

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

Step 2: Extract the tar file as shown below

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

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

# python3.8 setup.py build\_py



oash-4.4# python3.8 setup.py build_py
running build_py
creating build
creating build/lib.linux-x86_64-3.8
creating build/lib.linux-x86 <sup>-</sup> 64-3.8/urwid
copying urwid/ init .py -> build/lib.linux-x86 64-3.8/urwid
copying urwid/_async_kw_event_loop.py -> build/lib.linux-x86_64-3.8/urwid
copying urwid/canvas.py -> build/lib.linux-x86_64-3.8/urwid
copying urwid/command_map.py -> build/lib.linux-x86_64-3.8/urwid
copying urwid/compat.py -> build/lib.linux-x86_64-3.8/urwid
copying urwid/container.py -> build/lib.linux-x86_64-3.8/urwid
copying urwid/curses_display.py -> build/lib.linux-x86_64-3.8/urwid
copying urwid/decoration.py -> build/lib.linux-x86_64-3.8/urwid
copying urwid/display_common.py -> build/lib.linux-x86_64-3.8/urwid
copying urwid/escape.py -> build/lib.linux-x86_64-3.8/urwid
copying urwid/font.py -> build/lib.linux-x86 64-3.8/urwid

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

Step 4: Execute below command to perform Urwid installation

# python3.8 setup.py install

```
oash-4.4# python3.8 setup.py install
running install
running bdist_egg
running egg_info
writing urwid.egg-info/PKG-INFO
writing dependency_links to urwid.egg-info/dependency_links.txt
writing top-level names to urwid.egg-info/top_level.txt
reading manifest file 'urwid.egg-info/SOURCES.txt'
reading manifest template 'MANIFEST.in'
warning: no files found matching 'CHANGELOG'
writing manifest file 'urwid.egg-info/SOURCES.txt'
installing library code to build/bdist.linux-x86_64/egg
```

#### Note:

Or you can install urwid from step mention in 2.3 below step 2 Ensure Python 3.8.0 version should be available in PATH variable. Above execution should be done using Python 3.8.0.

### 2.3 Python 3.8.0 installation on Linux Operating System

Step 1: Execute below commands to install the python 3.8.0

dnf groupinstall 'development tools'

dnf install bzip2-devel expat-devel gdbm-devel ncurses-devel openssl-devel readline-devel wget sqlite-devel tk-devel xz-devel zlib-devel libffi-devel

wget https://www.python.org/ftp/python/3.8.0/Python-3.8.0.tgz

tar -xzvf Python-3.8.0.tgz

cd Python-3.8.0



./configure --enable-optimizations

make altinstall

python3.8 -version



<u>Step2:</u> Once above steps are executed successfully install the following required modules.

pip3.8 install cx-Oracle==8.3.0

pip3.8 install urwid==2.1.2

#### limits.conf (OS Configuration)

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

**Home** 



## 3. Installing and Configuring Weblogic Server 14c

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

• Section 3.1, "Installing Stand-alone Weblogic"

### 3.1 Installing Stand-alone Weblogic Server

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

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

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

#### 3.1.1 Pre-requisite - Installing Java 11

- Obtain the Java tarball pack from the Oracle Java Downloads. Download jdk-11.0.14\_linux-x64\_bin.tar.gz file to a directory.
- Change the directory in which you want to install,

#### cd <Directory\_Path>

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

#### tar zxvf <Path>/ jdk-11.0.14\_linux-x64\_bin.tar.gz

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

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

#### export JAVA\_HOME=<Java\_Install\_Path>/jdk-11.0.14

#### export PATH=\$JAVA\_HOME/bin:\$PATH

#### 3.1.2 Installing Weblogic

- Obtain Weblogic Server 14.1.1.0.0 zip from the Oracle Downloads. Extract the downloaded zip to get *fmw\_14.1.1.0.0\_wls.jar* file to a directory.
- Now to start the installer, go to the directory where you have extracted the jar file.
- Start the installer from the same directory using the below command:

#### java –jar <Path>/fmw\_14.1.1.0.0\_wls.jar

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



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

#### Installation Inventory Setup Screen

Oracle Fusion Middleware	14.1.1 WebLogic Installation@	¢٠	$\times$		
Installation Inve	ntory Setup				
Central Inventory Directory	/				
Enter the Central inventory d inventory directory if it does	Enter the Central inventory directory for all your oracle installations. The installer will create a new central inventory directory if it does not exist.				
Inventory Directory:	/scratch/obdxdevops/oraInver	ntory	Browse		
	Enter the full path for the directory.				
Operating System Group :	obdxdevops		•		
	Specify a group with write permission to the inventory directory				
Central Inventory Pointer I	File				
Click OK to create a script (createCentralInventory.sh) in the inventory directory. Run this script to create a pointer file, which is used to identify the location of the central inventory for future installations and administrative operations, such as patching and upgrade.			to create a Ind		
Help		Ōĸ	Cancel		

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

Click **OK** to continue.



#### Welcome Screen



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

Click **Next** to continue.

#### **Auto Updates Screen**

0	Orade Fusion Middleware 14.1.1	WebLogic Server and Coherence Installation - Step 2 of	8@. <u> </u>
A	uto Updates		
Ψ	Welcome		
$\phi$	Auto Updates	Skip Auto Opdates	
÷	Installation Location	<ul> <li>Select patches from directory</li> </ul>	
ų,	Installation Type	Location:	Browse
÷	Prerequisite Checks	○ Search My Oracle Support for Updates	
÷	Installation Summary	Username:	
÷	Installation Progress	Password:	
9	Installation Complete	Brown Sellings	Test Connection
		Pioxy Settings	
		Search	
	Hala		- Parts Neutra Sinish Conned
	Пеір		Cancel



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

tallation Location		
Welcome	Qracle Home:	
Auto Updates	/scratch/app/product/wis	Browse
Installation Location	Feature Sets Installed At Selected Oracle Home: View	
Installation Type		
Prerequisite Checks		
Installation Summary		
Installation Progress		
Installation Complete		
	Oracle Home may only contain alphanumeric, underscore (_), hyphen (-) or dot(.) characters and it must alphanumeric character.	begin wit

#### Specify Installation Location Screen

Specify the following installation locations:

• Oracle Middleware Home

This is the absolute path to the directory where the WebLogic Server will be installed. Click **Next** to continue.





#### **Specify Installation Type Screen**

Following are the installation types:

- Weblogic Server
- Coherence
- Complete with Examples

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



Oracle Fusion Middleware 14.1.1	WebLogic Server and Coherence Installation - Step 5 of 8@c.´ —	
Prerequisite Checks		
Welcome		
Auto Updates	100%	
Installation Location		
Installation Type	Checking operating system certification	
Prerequisite Checks	Checking Java Version used to launch the installer	
Installation Summary		
Installation Progress		
Installation Complete		
	Stop Rerun Skip View Successful Tasks	View Log
	Checking operating system certification	
	⊕ ✔Checking Java version used to launch the installer	
Help	< <u>B</u> ack <u>N</u> ext> Eir	ish Cancel

#### Prerequisite Checks Screen

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

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

Click Next to continue.



Oracle Fusion Middleware 14.1.1	WebLogic Server and Coherence Installation - Step 6 of 8@c <sup>*</sup> , , , , , , , , , , , , , , , , , , ,
Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Progress Installation Complete	Install Cracle Fusion Middleware 14.1.1 WebLogic Server and Coherence     Installation Location     Oracle Home Location: /scratch/app/product/wis     Log File Location: /scratch/app/product/wis     Log File Location: /mp/OraInstall/2021-06-08_03-04-28PM/install/2021-06-08_03-04-28PM.log     Disk Space     Required: 976 MB     Available: 607527 MB     Gre Application Server 14.1.1.0.0     Coherence Product Files 14.1.1.0.0     WebLogic SCA 14.1.1.0.0     WebLogic SCA 14.1.1.0.0     WebLogic Client Jars 14.1.1.0.0     Select Install I baccept the above options and start the installation.     Select Install I baccept the above options and start the installation.     To change the above options before starting the installation, select the option to change in the left pane or use the Back button.
Help	< <u>Back</u> <u>N</u> ext> <u>Install</u> Cancel

#### 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.



stallation Progress						
Welcome	1					
Auto Updates				52%	6	
Installation Location						
Installation Type	×	Prepare				
Prerequisite Checks	×	Copy	Liburying			
Installation Summary	9	Generating	Libraries			
Installation Progress		Linking	String Substitution	15		
Installation Complete		Setun				
		Saving the	inventory			
		Post install	scripts			
	Viev	w Messages		View S	uccessful Tasks	View
		m messages				, icu
		-		223	Hardware and S Engineered to Wor	Software k Together
					•	•
Help		-		~~~	< <u>Back</u> <u>N</u> ext> <u>F</u>	inish Ca
Help Oracle Fusion Middleware 14 stallation Progress	.1.1 WebLogic	Server and Co	herence Installatio	n - Step 7 of 8@r*	<back next=""> E</back>	inish Ca
Help Oracle Fusion Middleware 14 stallation Progress Welcome	.1.1 WebLogic	Server and Co	herence Installatio	n - Step 7 of 8@r f		inish Ca
Help Oracle Fusion Middleware 14 stallation Progress Welcome Auto Updates	.1.1 WebLogic	Server and Co	herence Installatio	n - Step 7 of 8@r <sup>4</sup> 100%	<back next=""> E</back>	inish Ca
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Heip Oracle Fusion Middleware 14 stallation Progress Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Progress Installation Complete	1.1.1 WebLogic	Server and Co Prepare Copy Generating L Performing S Linking Setup Saving the in Post install s	herence Installatio	n - Step 7 of 8@r*		
Help Oracle Fusion Middleware 14 stallation Progress Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Progress Installation Complete	1.1.1 WebLogic	Server and Co Prepare Copy Generating L Performing S Linking Setup Saving the in Post install s	herence Installatio	n - Step 7 of 8@r* 100%		
Help Oracle Fusion Middleware 14 stallation Progress Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Progress Installation Complete	1.1.1 WebLogic	Server and Co Prepare Copy Generating L Performing S Linking Setup Saving the in Post install s	herence Installatio	n - Step 7 of 8@r <sup>4</sup> 100%	<back next=""> E</back>	
Help Oracle Fusion Middleware 14 stallation Progress Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Progress Installation Complete	1.1.1 WebLogic	Server and Co Prepare Copy Generating L Performing S Linking Setup Saving the in Post install s	herence Installatio	n - Step 7 of 8@r*		
Help Oracle Fusion Middleware 14 stallation Progress Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Progress Installation Complete	1.1.1 WebLogic	Server and Co Prepare Copy Generating L Performing S Linking Setup Saving the in Post install s	herence Installatio	n - Step 7 of 8@r*	<back next=""> E</back>	
Help Oracle Fusion Middleware 14 stallation Progress Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Progress Installation Complete	1.1.1 WebLogic	Server and Co Prepare Copy Generating L Performing S Linking Setup Saving the in Post install s	herence Installatio	n - Step 7 of 8@r4		
Help Oracle Fusion Middleware 14 stallation Progress Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Progress Installation Complete	I.1.1 WebLogic	Server and Co Prepare Copy Generating L Performing S Linking Setup Saving the in Post install s	ibraries String Substitutions vventory cripts	n - Step 7 of 8@r <sup>4</sup> 100%	CERSTUI Tasks	

#### Installation Progress Screen



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

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

Oracle Fusion Middleware 14.1.	1 WebLogic Server and Coherence Installation - Step 8 of 8@c.s
Installation Complete	
♀ Welcome	Install Oracle Fusion Middleware 14.1.1 WebLogic Server and Coherence
Auto Updates	Installation Location
Installation Location	Oracle Home Location: /scratch/app/product/wls
	Log File Location: /tmp/OraInstall2021-06-08_03-04-28PM/install2021-06-08_03-04-28PM.log
	Feature Sets Installed Successfully
Prerequisite Checks	Core Application Server 14.1.1.0.0
Installation Summary	Coherence Product Files 14.1.1.0.0
i Installation Progress	Weblocie SCA 14 1 1 0 0
Installation Complete	Weblogic Client, lars 14 1 1 0 0
	Third party JDBC Drivers 14 1 1 0 0
	WebLogic Evaluation Database 14.1.1.0.0
	Fusion Middleware Maven Support 14.1.1.0.0
	Administration Console Additional Language Help Files 14.1.1.0.0
	CIE WLS Config 14.1.1.0.0
	OPatch 13.9.4.2.3
	Next Star/e)-
	non orquy.
	Automatically Launch the Configuration Wizard
	Oracle Fusion Middleware 14.1.1 WebLogic Server and Coherence installation completed successfully
Help	< <u>Back</u> <u>Next</u> > <u>Finish</u> Cancel

#### Installation Complete Screen

This screen summarizes the installation that was just completed.

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

Click Finish.

#### 3.1.3 Verifying the Installation

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

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

<u>Home</u>



## **4. Oracle HTTP Server Installation**

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

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

#### • Oracle HTTP Server:

Oracle HTTP Server (OHS) is an enterprise grade Web Server software - based on open source Apache HTTP Web Server - designed to deliver the following benefits:

- Deliver HTTP Listener for Oracle WebLogic Server through built-in WebLogic Web Server Proxy Plug-In.
- > Deliver Web Server component for Fusion Middleware.
- Serve static web content such as HTML, JavaScript, Images etc, and dynamic web content built with CGI/FastCGI based applications.
- <u>Oracle Web Cache:</u> Oracle Web Cache is a content-aware server accelerator, or reverse proxy, for the Web tier that improves the performance, scalability, and availability of Web sites that run on Oracle HTTP Server. Oracle Web Cache is the primary caching mechanism provided with Oracle Fusion Middleware. Caching improves the performance, scalability, and availability of websites that run on Oracle WebLogic Server by storing frequently accessed URLs in memory.

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

- <u>In stand-alone mode:</u> 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 (OHS)

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



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

./fmw\_12.2.1.4.0\_ohs\_linux64.bin Now, follow the instructions as shown below to install Webtier,

#### **Specify Inventory Directory Screen**

Oracle Fusion Middleware 1	2c HTTP Server (OHS) Installation		×
Installation Inv	ventory Setup		
Central Inventory Direct Enter the Central inventory new central inventory direct	<b>tory</b> y directory for all your oracle ins ctory if it does not exist.	stallations.The installer wi	ll create a
Inventory Directory:	/scratch/devops/oralnventory Enter the full path for the direct	ory.	Browse
Operating System Group	dba Specify a group with write perm directory	▼ ission to the inventory	]
Central Inventory Point	er File		
Click OK to create a scrip to create a pointer file, w installations and administ	t (createCentralInventory.sh) in t hich is used to identity the locat trative operations, such as patcl	the inventory directory. Ru ion of the central inventor hing and upgrade.	in this script y for future
Help		<u>0</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.



#### Welcome Screen



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

Click **Next** to continue.



Welcome       Skip Auto Updates         Auto Updates       Skip Auto Updates         Installation Location       Select patches from girectory         Installation Type       Location:         IDK Selection       Search My Oracle Support for Updates         Prerequisite Checks       Username:         Installation Summary       Search My Oracle Support for Updates         Installation Complete       Search	
Welcome <ul> <li>Auto Updates</li> <li>Installation Location</li> <li>Installation Type</li> <li>JDK Selection</li> <li>Search My Oracle Support for Updates</li> <li>Username:</li> <li>Password:</li> <li>Proxy Settings</li> <li>Search</li> </ul>	
Auto Updates       Step Entro operators         Installation Location       Select patches from girectory         Installation Type       Location:         IDK Selection       Search My Oracle Support for Updates         Prerequisite Checks       Username:         Installation Progress       Proxy Settings         Installation Complete       Search	
Installation Location       Select patches from girectory         Installation Type       Location:         JDK Selection       Search My Oracle Support for Updates         Prerequisite Checks       Username:         Installation Summary       Password:         Installation Complete       Search         Search       Search         Istallation Complete       Search	
Installation Type     JDK Selection        Prerequisite Checks   Installation Summary   Installation Progress   Installation Complete     Search        Search        Installation Complete     Search        Search        Installation Complete     Search        Search        Installation Complete     Search        Search           Installation Complete        Search  Installation Complete Search	
JDK Selection <ul> <li>Search My Oracle Support for Updates</li> <li>Username:</li> <li>Password:</li> <li>Password:</li> <li>Search</li> </ul> Installation Complete         Search           Search         Search           Search         Search           Proxy Settings         Test Oracle           Search         Search           Search         Search	Br <u>o</u> wse
Prerequisite Checks     Username:       Installation Summary     Password:       Installation Complete     Proxy Settings       Search	
Installation Complete  Proxy Settings  Installation Complete  Proxy Settings  Iest C  Search	
Installation Complete  Proxy Settings  Test C  Search	
Installation Complete	Connection
	connection

**Install Software Updates Screen** 

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



#### **Select Installation Location**

Oracle HTTP Server Installation -	Step 3 of 9 — 🗌 🗙
Installation Location	
9 <u>Welcome</u>	Oracle Home:
🖕 <u>Auto Updates</u>	/scratch/devops/Oracle/Middleware/Oracle Home
Installation Location	Feature Sets Installed At Selected Oracle Home: View
Installation Type	200
UDK Selection	
Prerequisite Checks	
Installation Summary	
Installation Progress	
o Installation Complete	
	Oracle Home may only contain alphanumeric, underscore (_), hyphen (-) or dot(.) characters and it must begin with an alphanumeric character.
Help	< Back Next > Finish Cancel

Specify the following installation locations:

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



Oracle HTTP Server Installation	- Step 4 of 9 —	
Installation Type		
Welcome     Auto Updates     Installation Location     Installation Type     IDK Selection	Standalone HTTP Server (Managed independently of WebLogic server)     Collocated HTTP Server (Managed through WebLogic server)	
Prerequisite Checks Installation Summary Installation Progress Installation Complete	<ul> <li>OHS         <ul> <li>Oracle HTTP Server 12.2.1.4.0</li> <li>Java Runtime Environment             Oracle JRE 12.2.1.4.0</li> <li>Oracle Common Configuration Infrastructure                   CIE CAM Shared Config 12.2.1.4.0</li> <li>Infrastructure                   Database Client 12.2.1.4.0                   FMW Upgrade 12.2.1.4.0                   OAM WebGate For Oracle HTTP Server 12.2.1.4.0                   OPatch 13.9.4.2.1                   LDAP 12.2.1.4.0</li> </ul> </li> </ul>	
Help	< Back Next > Finish	Cancel

Select Installation Type Screen

The following are the Installation Types available.

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

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



#### Select JDK home

Oracle HTTP Server Installation	- Step 5 of 9		- 🗆 X
JDK Selection			
Welcome     Auto Updates     Installation Location     Installation Type     JDK Selection	IDK Home: /scratch/devops/Oracle/Middleware/Or	icle_Home/oracle_common/jdk/jr	■ ▼ Browse
Prerequisite Checks Installation Summary Installation Progress Installation Complete	The selected JDK /scratch/devops/Ora used for this installation	cle/Middleware/Oracle_Home/ora	cle_common/jdk/jre will be
Help	μ	< <u>B</u> ack <u>N</u> ext >	Einish Cancel

Click Next to continue



#### Prerequisite Checks Screen

Oracle HTTP Server Installation	Step 6 of 9 – 🗆 🗙
Prerequisite Checks	
Welcome	1007
Auto Updates	TAA2
Installation Location	Checking operating system certification
Installation Type	Checking recommended operating system packages
JDK Selection	Checking kernel parameters
Prerequisite Checks	Checking physical memory
Installation Summary	Checking lava version used to launch the installer
Installation Progress	
Installation Complete	
	Stop         Rerun         Skip         ✓ View Successful Tasks         View Log
	Checking recommended operating system packages
	Checking kernel parameters     Achecking physical memory
	Checking Java version used to launch the installer
Help	< <u>Back</u> <u>N</u> ext > <u>Finish</u> 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.

Click **Next** to continue.



#### **Installation Summary**

Oracle HTTP Server Installation	Step 7 of 9 – 🗆 🗙
Installation Summary	
Welcome     Auto Updates     Installation Location     Installation Type     JDK Selection     Prerequisite Checks     Installation Summary     Installation Progress     Installation Complete	<ul> <li>Install Oracle HTTP Server (OHS)</li> <li>Installation Location Oracle Home Location: /scratch/devops/Oracle/Middleware/Oracle_Home Log File Location: /tmp/OraInstall2020-05-07_12-31-35PM/install2020-05-07_12-31-35PM .log</li> <li>Disk Space Required: 1865 MB Available: 745877 MB</li> <li>Feature Sets to Install Oracle JRE 12.2.1.4.0 OAM webGate For Oracle HTTP Server 12.2.1.4.0 LDAP 12.2.1.4.0 Oracle HTTP Server 12.2.1.4.0 CIE CAM Shared Config 12.2.1.4.0 Enterprise manager Plugin for OHS 12.2.1.4.0</li> <li>Enterprise manager Plugin for OHS 12.2.1.4.0</li> <li>Select Install to accept the above options and start the installation. To change the above options before starting the installation, select the option to change in the left pane, or use the Back button.</li> </ul>
Help	< <u>B</u> ack <u>N</u> ext > <u>I</u> nstall Cancel

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 HTTP Server Installation - S	rep 8 of 9 - 🗆 🗙
Installation Progress	
O Welcome	
Auto Updates	100%
Installation Location	A Desper
Installation Type	
JDK Selection	Copy
Prerequisite Checks	Cenerating Libraries
Unstallation Summary	Performing string substitutions
Installation Progress	
Installation Complete	Setup
	Saving the inventory
	Post install scripts
	View Messages View Successful Tasks View Log
×	Hardware and Software Engineered to Work Together
Help	< <u>Back</u> Next > Finish Cancel

This screen shows the progress of the installation.

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

Click Next.



#### Installation Complete Screen

Oracle HTTP Server Installation	- Step 9 of 9 — 🗆 🗙
Installation Complete	
9 Welcome	😑 Install Oracle HTTP Server (OHS)
4 Auto Updates	Installation Location
O Installation Location	Oracle Home Location: /scratch/devops/Oracle/Middleware/Oracle_Home
() Installation Type	Log File Location: /tmp/OraInstall2020-05-07_12-31-35PM/install2020-05-07_12-31-35PM
Installation Type	Feature sets Installed Successfully
JDK Selection	Oracle JRE 12.2.1.4.0
Prerequisite Checks	Database Client 12.2.1.4.0
Unstallation Summary	OAM WebGate For Oracle HTTP Server 12.2.1.4.0
Distallation Progress	LDAP 12.2.1.4.0
	Oracle HTTP Server 12.2.1.4.0
Installation Complete	Enterprise manager Plugin for OHS 12.2.1.4.0
	OPatch 13.9.4.2.1
	Next Steps:
	1. Create a domain using the Configuration Wizard.
	2. Start Node Manager and Domain Servers.
	See the product installation quide for detailed instructions.
	Oracle HTTP Server (OHS) installation completed successfully.
Help	< <u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel

This screen summarizes the installation that was just completed.

Click Finish to dismiss the screen.



#### Configure the HTTP server

Follow below steps to configure domain for HTTP server

- 1. Browse <Middleware\_Home>/oracle\_common/common/bin directory
- 2. Execute below command

./config.sh

#### Below screen will be displayed

Fusion Middleware Configura	ation Wizard - Page 1 of 6	-	- D X
Configuration Type	O FUSIOI		
🙊 Create Domain			
🙀 <u>Templates</u>			
JDK Selection			
Configuration Summary			
Configuration Progress			
• End Of Configuration	What do you want to do?	lomains/base_dom	ain Browse
	Create a new domain.		
Help	< <u>B</u> ack <u>N</u>	<u>l</u> ext > <u>F</u> inish	a Cancel

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



Fusion Middleware Configuration	n Wizard - Page 1 of 6				_		×
Configuration Type							
🔍 Create Domain	:						
🗼 <u>Templates</u>							
JDK Selection							
Configuration Summary							
Configuration Progress							
b End Of Configuration	What do you want :	coh of					
	what do you want	(0 00)					
	Create a new do	omain					
	O Update an exist	ing domain					
	Domain Location:	Dracle/Middleware/Oracle	e_Home/user_proj	ects/domains/l	base_doma	in B <u>r</u> c	)WSE
	Create a new domai	n.					
Help			< <u>B</u> ack	<u>N</u> ext >	<u> </u>	Ca	ncel

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

Fusion Middleware Configuration	Wizard - Page 2 of 8	—		×
Templates		E	7	)
Create Domain Templates JDK Selection System Components OHS Server Configuration Progress End Of Configuration	Create Domain Using Product Templates: Filter Templates: ☐ Include all gelected templates ✓ Basic Standalone System Component Domain - 12,2,1,3,0 [wiserver]* ✓ Oracle HTTP Server (Standalone) - 12,2,1,3,0 [ohs] 	plied	templates	
Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> i	nish	Can	cel



#### 5. Click Next.

Fusion Middleware Configuration	Wizard - Page 3 of 9			
JDK Selection				
Create Domain Templates JDK Selection System Components OHS Server Node Manager Configuration Summary Configuration Progress End Of Configuration	JDK • Oracle HotSpot 1.8.0_211 Other JDK Location:	/scratch/devops/Oracle/M	ddleware/Oracle_Home/	oracle_common/ Browse
Help		< <u>B</u> ack	Next > Einish	Cancel

6. Enter below details and click **Next**.

System Component: Set the Instance name

Component Type: Should be OHS

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

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



Fusion Middleware Configuration	on Wizard - Page 4 of 9			– 🗆 ×
System Components				
☆ Create Domain ☆ Templates	Add X Dele	ete	(	🔊 Dis <u>c</u> ard Changes
JDK Selection	System Component	Component Type	Restart Interval Seconds	Restart Delay Seconds
System Components	ohs1	OHS 💌	3600	0
OHS Server				
🧅 <u>Node Manager</u>				
Configuration Summary				
Configuration Progress				
C End Of Configuration				
Help		(	< <u>B</u> ack <u>N</u> ext >	Einish Cancel

#### 7. Configure Admin Host; Port; Listen Address and click Next.

Fusion Middleware Configuratio	n Wizard - Page 5 of 9		-	- 🗆 ×
OHS Server				
Create Domain Templates	System Component	ohs1		
JDK Selection     System Components	Admin Host	obdxohs.in.oracle.com		
OHS Server	Admin Port	9999		
<ul> <li><u>Node Manager</u></li> <li><u>Configuration Summary</u></li> </ul>	Listen Address	obdxohs.in.oracle.com		
Configuration Progress	Listen Port	7777		
C End Of Configuration	SSL Listen Port	4443		
	Server Name	http://obdxohs.in.oracle.com:7777		
Help		< <u>B</u> a	ck <u>N</u> ext > <u>F</u> inis	h Cancel



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

Fusion Middleware Configuration Wizard - Page 6 of 9	- 🗆 X
Node Manager	
Create Domain Templates JDK Selection System Components OHS Server Node Manager Configuration Summary Configuration Progress End Of Configuration Node Manager Credent Username: Password: Confirm Password:	:Location n Location ne: icle_Home/user_projects/domains/base_domain/nodemanager Browse tials obdxohsnode •••••••
Help	< <u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel

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

Configuration Summary Create Domain Templates JDK Selection System Components OHS Server Node Manager Configuration Summary	View: System Components System Components OHS Ohs1	Admin Host: obdxx Admin Port: 9999 Listen Address: obdxx Listen Port: 7777 SSL Listen Port: 4443 Server Name: http:/	ohs.in.oracle.	com com	
Create Domain Templates JDK Selection System Components OHS Server Node Manager Configuration Summary	View: System Components	Admin Host: obdx: Admin Port: 9999 Listen Address: obdx: Listen Port: 7777 SSL Listen Port: 4443 Server Name: http://	ohs.in.oracle. ohs.in.oracle. Vobdxobs in	com com	
Configuration Progress End Of Configuration			,	oracle.co	m:77
	Select <b>Create</b> to accept the above options and start creat above configuration before starting Domain Creation, g the left pane, or by using the <b>Back</b> button.	Ing and configuring a new	w domain. To by selecting	change ti g its name	he : in

10. Below installation progress can be seen



Fusion Middleware Configurat	tion Wizard - Page 8 of 9	– – ×
Configuration Progress		
A Create Domain		
Templates		15%
JDK Selection	Copy Unprocessed Artifacts	
O System Components	Security Processing	
O OHS Server	Artifacts Generation	
	Post Processing	
O Node Manager		
O Configuration Summary		
Configuration Progress		
Help		< <u>Back</u> <u>Next&gt;</u> <u>Finish</u> Cancel
Configuration Progress	ion Wizard - Page 8 of 9	
Q Create Domain	1	
Templates		100%
JDK Selection	Copy Unprocessed Artifacts	
System Components	Security Processing     Artifacts Generation	
OHS Server	String Substitution	
O Node Manager	Post Processing	
O Configuration Summary	_	
Configuration Progress		





## 4.2 Verifying the Installation

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

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

```
cd
```

/scratch/devops/Oracle/Middleware/Oracle\_Home/user\_projects/domains/base\_domain/bin

./startNodeManager.sh

• Start component

#### ./startComponent.sh ohs1

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



Oracle HTTP Serve	th x	- 0
RACLE	Oracle HTTP Server 12c	
	Dracke HTTP Server 12c is based on the proven, spex source Apache HTTP Server inclinating and provides the flamework for funding static, dynamic web pages are	for Nonl-androg Grade Pupelon Moldmann Applications.
	Here Management Marine Marine Ma Marine Marine Mar	
	Fatures	
	Control English Damas Damas	Residue de 199- Sector
	Court Decision entry in Server Second	Annual and a monotony
	Thousands of sites / application domains served from a single web server instance. Each virtual server can have its own configuration files, IP addresses, port, document root, preferences, log files, and more.	everages WebLogic 12c administration interfaces to provide a simple, consistent and distributed administration model for administration Dracle HTTP Server, Oracle WebLogic Server and the rest of the Fusion Middleware Stack.
	Protection From Common Threats Built in Modificeurly module provides the ability to configure rules to introspect and protect applications from common attacks including SQL/Command rejection, Cross Site Storpting variantiables and other variantibles.	For mare information, please refer to <u>Understandings the CHS Administration Model</u> section. Menitoring Internation will be access Enterprise Manager altows contenses to monitor HTTP bulks by value the Cracke Enterprise Management consiste.
	FastCGI Support Efficient way to serve dynamic confent web pages within CHS by using scripting languages such as PHP or Python, without incurring a significant performance penalty	Robust Migration Tool
	Integrated Revense Proxy	integrated migration tools make it easy to migrate ecisting Oracle HTTP Server 11g deployments to Oracle HTTP Server 12c.

#### http://<HTTPSERVERHOSTNAME>:<HTTPSERVERLISTENPORT>

<u>Home</u>



## 5. Oracle HTTP Server Webgate Installation and Configuration

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

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

- Section 5.1, " Configuring Oracle Webgate"
- Section 5.2, "Post-Installation Steps for Oracle HTTP Server WebGate"
- Section 5.3, "Verifying the Installation and Configuration of Oracle HTTP Server WebGate"
- Section 5.4, "Registering the New Oracle HTTP Server 12c WebGate"

### 5.1 Configuring Oracle Webgate

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

• Go to the Oracle\_Home/webgate/ohs/tools/deployWebGate directory by running the following command:

#### cd

/scratch/devops/Oracle/Middleware/Oracle\_Home/webgate/ohs/tools/deployWebGa te

 Run the following command to copy the required bits of agent from the *Oracle\_Home* directory to the *OHS\_Master\_Config\_Directory* location:

./deployWebGateInstance.sh -w OHS\_Master\_Config\_Directory oh Oracle Home

For .**e.g:** 

./deployWebGateInstance.sh -w /scratch/devops/Oracle/Middleware/Oracle\_Home/user\_projects/domains/base\_do main/config/fmwconfig/components/OHS/ohs1 -oh /scratch/devops/Oracle/Middleware/Oracle\_Home

deployWebGate]\$ ./deployWebGateInstance.sh -w /scratch/devops/Oracle/Middleware/Oracle\_Home/user\_projects/d omains/base\_domain/config/fmwconfig/components/OHS/ohs1 -oh /scratch/devops/Oracle/Middleware/Oracle\_Home Copying files from WebGate Oracle\_Home to WebGate Instancedir

In this command:

**Oracle\_Home** is the directory in which you have installed Oracle HTTP Server WebGate. Example: /scratch/devops/Oracle/Middleware/Oracle\_Home

**OHS\_Master\_Config\_Directory** is the location of the directory where the main Oracle HTTP Server configuration files are kept.



Example:

/scratch/devops/Oracle/Middleware/Oracle\_Home/user\_projects/domains/base\_domain/config/fm wconfig/components/OHS/ohs1 Run the following command to ensure that the LD\_LIBRARY\_PATH variable contains Oracle\_Home\_for\_Oracle\_HTTP\_Server/lib:

**export LD\_LIBRARY\_PATH=\$LD\_LIBRARY\_PATH:** *Oracle\_Home*/lib From your present working directory, move to directory:

cd Oracle\_Home/webgate/ohs/tools/setup/InstallTools

cd

/scratch/devops/Oracle/Middleware/Oracle\_Home/webgate/ohs/tools/setup/InstallT ools/ On the command line, run the following command to copy the apache\_webgate.template file from the Oracle\_Home directory to the main Oracle HTTP Server configuration directory (re-named to webgate.conf) and update the httpd.conf file to add one line to include the name of webgate.conf:./EditHttpConf -w OHS\_Master\_Config\_Directory [oh Oracle\_Home] [-o output\_file]

For e.g.:

./EditHttpConf -w /scratch/devops/Oracle/Middleware/Oracle\_Home/user\_projects/domains/base\_do main/config/fmwconfig/components/OHS/ohs1 -oh /scratch/devops/Oracle/Middleware/Oracle\_Home

InstallTools]\$ ./EditHttpConf -w /scratch/devops/Oracle/Middleware/Oracle\_Home/user\_projects/domains/base\_d omain/config/fmwconfig/components/OHS/ohs1 -oh /scratch/devops/Oracle/Middleware/Oracle\_Home The web server configuration file was successfully updated /scratch/devops/Oracle/Middleware/Oracle\_Home/user\_projects/domains/base\_domain/config/fmwconfig/components/OHS/ohs1/httpd.c onf has been backed up as /scratch/devops/Oracle/Middleware/Oracle\_Home/user\_projects/domains/base\_domain/config/fmwconfi

In this command:

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

**OHS\_Master\_Config\_Directory** is the location of the directory where the main Oracle HTTP Server configuration files are kept. Example: /scratch/devops/Oracle/Middleware/Oracle\_Home/user\_projects/domains/base\_domain/co nfig/fmwconfig/components/OHS/ohs1

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

Note: The -oh Oracle\_Home and -o output\_file parameters are optional.



## 5.2 <u>Verifying the configuration of Oracle HTTP Server 12c</u> <u>WebGate</u>

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

## 5.3 Registering the New Oracle HTTP Server 12c WebGate

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

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

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# 6. Oracle Analytics Publisher Installation

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

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