Oracle Fusion Middleware 12c on SLES 12 SP3

# Oracle Fusion Middleware 12c on SUSE Linux Enterprise Server 12 (SP3) for x86-64



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# Introduction

This document provides details on installing and configuring Oracle Fusion Middleware 12c Components on SUSE Linux Enterprise Server 12 (SP3). Details are provided for Intel x86-64 versions of both Oracle FMW12c and SUSE Linux Enterprise Server 12. Similar steps apply to other platforms (x86, ia64, System z, etc.). If you encounter issues or have general questions, please post your query to suse-oracle@listx.novell.com.

Official Oracle product documentation is available at: http://docs.oracle.com/en/

# **System Requirements and Specifications**

### **Hardware Requirements**

Requirement	Minimum
CPU	1-GHz CPU
Physical Memory	4 GB
Swap space	Approx. twice the size of RAM
Disk space in /tmp	4 GB
Disk space for software files	4 GB

## Software Requirements

# SUSE

• SUSE Linux Enterprise Server 12 SP3 - (x86-64) (http://download.suse.de/install)

# Oracle

• Database 12cR2 (12.2.0.1.0) - (x86\_64) (http://www.oracle.com/technetwork/indexes/downloads/index.html#database)

• Java SE Development Kit 8 (jdk-8u144-linux-x64.tar.gz) (<u>http://www.oracle.com/technetwork/indexes/downloads/index.html#java</u>)

• WebLogic Server 12cR2 (12.2.1.3.0) (fmw\_12.2.1.3.0\_wls\_Disk1\_1of1.zip) (http://www.oracle.com/technetwork/middleware/fusion-middleware/downloads/index.html)

• WebLogic Server 12cR2 (12.2.1.3.0) - (Fusion Middleware Infrastructure Installer) (<u>http://www.oracle.com/technetwork/indexes/downloads/index.html#middleware</u>)

• Forms and Reports 12c (12.2.1.3.0) - (x86\_64) (<u>http://www.oracle.com/technetwork/indexes/downloads/index.html#middleware</u>)

• WebTier 12cR2 Oracle HTTP Server (12.2.1.3.0) - (x86\_64) (http://www.oracle.com/technetwork/indexes/downloads/index.html#middleware)

• WebCenter Portal 12c (12.2.1.3.0) - (fmw\_12.2.1.3.0\_wcportal\_Disk1\_1of1.zip) (<u>http://www.oracle.com/technetwork/indexes/downloads/index.html#middleware</u>)

• SOA Suite 12c (12.2.1.3.0) - (fmw\_12.2.1.3.0\_soaqs\_Disk1\_1of2.zip) (http://www.oracle.com/technetwork/indexes/downloads/index.html#middleware)

• Oracle Identity and Access Management 12cPS3 (12.2.1.3.0) – (Generic Quick Installer) (<u>http://www.oracle.com/technetwork/indexes/downloads/index.html#middleware</u>)

# Testing machine information

- HP DL388 Gen9 Server
- CPU: 2 \* Intel(R) Xeon(R) CPU E5-2630 v3 @ 2.40GHz
- RAM: 64 GB
- NIC: 8
- Local HDD: 2 TB
- Operating System: SUSE Linux Enterprise Server 12 SP3 (x86\_64)
- Kernel version: 4.4.73-5-default

# Prerequisites

# 1. Installing SUSE Linux Enterprise Server 12

1-1. Install SUSE Linux Enterprise Server 12 on your testing machine. To do so, follow the instructions in the official SUSE Linux Enterprise Server documentation at <u>https://www.suse.com/documentation/sles-12/</u>.

Figure 1-1 Software Installed as shown below

		YaST2	• ×
<u>F</u> ile	Package Configuration Dependencie	ies <u>O</u> ptions E <u>x</u> tras <u>H</u> elp	
Viev	w  Search <u>R</u> PM Groups Installatio	on Summary Patter <u>n</u> s Package <u>G</u> roups	
	Pattern -		
	Documentation	Package         Summary         Installed (Available)         Size	
	🧕 Help and Support Documentat		
	Base Technologies		
•	Base System		
	T AppArmor		
	32-Bit Runtime Environment		
	XEN Virtualization Host and to		
	KVM Virtualization Host and t		
	🛑 Minimal System (Appliances)		
•	HaST2 configuration packages		
	Graphical Environm		
	GNOME Desktop Environment	Description         Technical Data         Dependencies         Versions         File List         Change Log	
•	X Window System		
	Development		
	C/C++ Compiler and Tools		
	Primary Functions		
	FIPS 140-2 specific packages		
	File Server		
	Printing	<u>Cancel</u> <u>Acce</u>	ept

In Yast, select the patterns you need. Make sure you select the patterns and packages required to run Oracle products.

					YaST2					-	- •
<u>F</u> ile	<u>P</u> acka	age Confi <u>q</u> uration <u>D</u>	ependencies	<u>O</u> ptions E	<u>x</u> tras <u>H</u> elp						
Viev	v •	Search <u>R</u> PM Groups	Installation	Summary Pa	tter <u>n</u> s Package	Groups					
		Pattern	-								
-		Development		<ul> <li>Package</li> </ul>		Summary				Installed	Size
~	<b>P</b> -	C/C++ Compiler and Te	ools	🗹 orarun					cle Products	2.0-12.7	73.0 Ki
-		Primary Function	ons	patterns	-sles-Minimal -sles-base	Minimal Sys Base Systen		ances)		12-77.8 12-77.8	53 50
	<b>R</b>	FIPS 140-2 specific page			-sles-oracle_serv	,				12-77.8	59
		File Server	y								
	is.	Printing									
		5									
		Mail and News Server									
		Web and LAMP Server									
		Infiniband (OFED)									
	$\bigcirc$	Internet Gateway									
	-0	DHCP and DNS Server			}		r	ŕ	ř		
	-	Directory Server (LDAF	P)	D <u>e</u> scription	Technical Data	Dependencies	Versions	File List	Change Log	)	
	<b>P</b>	SAP Application Server	Base	orarun - An	Environment for	Running Oracle I	Products				
4	2.	Oracle Server Base			e creates the user						
		KVM Host Server			parameters to valu le components at		'				
		Xen Virtual Machine Ho	oct Server	software pa	ckages needed to	install and use (	Dracle, so t	hat when	, you select th	is package	the
	8				ges are included a install them (whe	<i>,</i> .	,			,	
$\Box$		Web-Based Enterprise Subscription Manageme	5		cle but it simplifie			manuj. H	na package is	nocrequi	curor
_											

Figure 1-2 Software Installed as shown below

After the installation of SUSE Linux Enterprise Server, the following information about the operating system and the kernel version is displayed.

Figure 1-3 Operating System information and kernel version

rigure 1-5 Operating System mormation and kenner version
oracle@hpgen9-02:~> more /etc/os-release
NAME="SLES"
VERSION="12-SP3"
VERSION_ID="12.3"
PRETTY_NAME="SUSE Linux Enterprise Server 12 SP3"
ID="sles"
ANSI_COLOR="0;32"
CPE_NAME="cpe:/o:suse:sles:l2:sp3"
oracle@hpgen9-02:~> uname -a
Linux hpgen9-02 4.4.73-5-default #1 SMP Tue Jul 4 15:33:39 UTC 2017 (b7ce4e4) x86_64 x86_64 x86_64 GNU/Linux
oracle@hpgen9-02:~>

1-2. Special Startup Requirements.

1). Increase the value for kernel parameter.

Change the value of shmmax to 4294967295 by including the following line in '/etc/sysctl.conf'

kernel.shmmax = 4294967295

Change the value of shmall to 9272480 by including the following line in '/etc/sysctl.conf'

kernel.shmall = 9272480

Activate the new SHMMAX setting by running the command:

/sbin/sysctl -p

2). Checking the Open File Limit and Maximum Stack Size.

ulimit -a

To change the open file limits, login as root and edit the /etc/security/limits.conf file. Look for the following line:

oracle soft nofile 1024

Change the values from 1024 to 4096;

To change the maximum stack size, login as root and edit the /etc/security/limits.conf file. Add the following line:

oracle soft stack 10240

then reboot the machine.

#### 2. Installing Oracle Database 12cR2

2-1. Log in to the target system (SUSE Linux Enterprise Server 12 SP3 64-bit OS) as a non-admin user. Download Oracle Database 12cR2 (12.2.0.1.0) x86\_64 from <a href="http://www.oracle.com/technetwork/indexes/downloads/index.html#database">http://www.oracle.com/technetwork/indexes/downloads/index.html#database</a>.

2-2. Oracle Database 12cR2 (12.2.0.1.0) is officially certified for SUSE Linux Enterprise Server 12. For detailed instructions please use Official Oracle Install guides: http://docs.oracle.com/en/database/database.html.

Figure 2-1 Make sure the Database up and running

```
oracle@hpgen9-02:~> export ORACLE_HOME=/home/oracle/app/product/12.2.0/dbhome_1
oracle@hpgen9-02:~> export ORACLE_SID=suse
oracle@hpgen9-02:~> /home/oracle/app/product/12.2.0/dbhome 1/bin/sqlplus /nolog
SQL*Plus: Release 12.2.0.1.0 Production on Wed Jan 24 16:08:25 2018
Copyright (c) 1982, 2016, Oracle. All rights reserved.
SQL> conn /as sysdba
Connected to an idle instance.
SQL> startup
ORACLE instance started.
Total System Global Area 2.0200E+10 bytes
Fixed Size
                          19247928 bytes
Variable Size
                      4362079432 bytes
1.5771E+10 bytes
Database Buffers
Redo Buffers
                          47857664 bytes
Database mounted.
Database opened.
SQL> select name,open_mode from v$database;
NAME
         OPEN MODE
                       _ _ _ _ _ _ _ _ _
SUSE
          READ WRITE
SQL>
```

	EM Express Lo	ogin - Mozilla Firefox		_ • ×
EM Express Login × +				
( ) iii http://hpgen9-02:5501/em/login		90% C Q Sea	arch	☆ 自 ∔ ⋒ ♥ ☰
	Manager Database		User Name sys Password as sysdba Login	B
Copyright © 1998. 2018. Oracle and/or its affiliates. All rights rese EM Express - Databas × + © EM Express - Databas × + © I III http://hpgen9-02:5501/em/shell#/ ORACLE Enterprise Manager Database Expres SUSE (12.2.0.1.0) & Configuration × © Storage × 2 Database Home	EM Express - Datab /dbhome/show_regions	ase Home - Mozilla Firef	irch	_ □ X 2 自 ↓ ⋒ ♡ = Help - 12 SYS Log Out ○ 1 hoper#02
Database Home		Page Refreshed	4:28:57 PM GMT+0800 Auto F	Refresh 15 Seconds 🔻 🖒
✓ Status       Up Time     20 minutes       Type     Single instance (suse)       Version     12.2.0.1.0 Enterprise Edition       Database Name     SUSE       Instance Name     suse       Platform Name     Linux x86 64-bit       Host Name     hpgen9-02       Thread     1       Archiver     Stopped	✓ Performance       Activity Class     Services       30	3:50 PM 4:00 PM	4:10 PM 4:20 PM	■ Wait ■ User I/O ■ CPU
✓ Incidents - Last 24 Hours				
Inst     Time     Inci     Pro     Error       No Incidents	► Resources	Active Sessions	Memory 20 GB PGA 0 ther SGA 18 GB Other SGA 18 GB Large Pool 4 GB Shared Pool 0 GB Butter Cache	Data Storage       4 GB     Others       3 GB     Temporary       2 GB     Undo       1 GB     System       0 GB     User
⊻ Running Jobs	SQL Monitor - Last Hour (20			
Inst Owner Name Ela Started	Status     Duration       Image: Optimized state     7.0s       Image: Optimized state     3.0s	Type     ID     User Name       Image: Sector state     c2p       Image: Sector state     3mk	ne Parallel Database 6.7s 3.4s	Time SQL Text BEGIN prvt delete /* QO

# Figure 2-2 Access to Oracle Database 12cR2 Enterprise Manager

(**Note**: Oracle strongly recommends using the AL32UTF8 character set for database that support Oracle Fusion Middleware. So, please configures the database character set is AL32UTF8.

D	atabase Configuration Assistant	- Create a database - Step 2 of 14 _ 🗖 🗙
Select Database Creation N	Node	
Database Operation	<ul> <li>Typical configuration</li> <li>Global database name:</li> </ul>	
Creation Mode     Deployment Type	Storage type:	File System
Database Identification     Storage Option	Database files location:	{ORACLE_BASE}/oradata/{DB_UNIQUE_NAME}
Fast Recovery Option	F <u>a</u> st Recovery Area (FRA):	{ORACLE_BASE}/fast_recovery_area/{DB_UNIQUE_NAME} Browse
Configuration Options	Administrative password:	AL32UTF8 - Unicode UTF-8 Universal character set
User Credentials	Confirm <u>p</u> assword:	
Creation Option	Create as Container databas	se
Progress Page Finish	Pluggable database name:	
Help		< <u>B</u> ack <u>N</u> ext > <u>Finish</u> Cancel

)

#### 3. Installing Java

3-1. For Oracle FMW components 12c (12.2.1.3.0), the certified JDK is 1.8.0\_131 and later. Log in to the target system (SUSE Linux Enterprise Server 12 SP3 64-bit operating system) as a non-administration user. Download the Java SE Development Kit 8 (jdk-8u144-linux-x64.tar.gz) from <a href="http://www.oracle.com/technetwork/indexes/downloads/index.html#java">http://www.oracle.com/technetwork/indexes/downloads/index.html#java</a>

3-2. Set environment variables JAVA\_HOME and PATH to ensure the proper JDK version is installed and ready for use.

#### Figure 3-1 Java information

	oracle@hpgen9-02:~	-	۰	×
File Edit View Search Terminal Help				
oracle@hpgen9-02:~> export JAVA_HOME=/h oracle@hpgen9-02:~> export PATH=\$JAVA_H oracle@hpgen9-02:~> java -version java version "1.8.0_144" Java(TM) SE Runtime Environment (build Java HotSpot(TM) 64-Bit Server VM (buil oracle@hpgen9-02:~>	OME/bin:\$PATH			

# **Oracle Fusion MiddleWare 12c Installation and Configuration**

Oracle WebLogic Server software

### 1. Installing Oracle WebLogic Server software

1-1. Prerequisites:

Installation of Oracle WebLogic Server requires:

1). Oracle JDK 1.8.0\_131 and later is installed.

1-2. Log in to the target system (SUSE Linux Enterprise Server 12 64-bit OS) as a non-admin user. Download the Oracle WebLogic Server 12cR2 (12.2.1.3.0) from <u>http://www.oracle.com/technetwork/middleware/fusion-middleware/downloads/index.html</u>. (**Note:** Please ensure the installation user has the proper permissions to install and configure the software.)

1-3. Go to the directory where you downloaded the installation program. Extract the contents of the .zip archive(fmw\_12.2.1.3.0\_wls\_Disk1\_1of1.zip) and launch the installation program by running 'java -jar fmw.xxxx.jar'

For the actual installation, follow the steps below:

1). Installation Inventory Setup.

If this is your first Oracle installation on a host that is running SLES, please use this screen to specify the location of the Oracle central inventory directory and Operating System Group Name, then click **OK** to continue.

Oracle F	usion Middleware 12c Inst	allation Inventory Setu	p
Installation In	ventory Setup		
	ectory ory directory for all your oracle rectory if it does not exist.	installations.The installer w	vill create a
Inventory Directory:			Browse
	Enter the full path for the dire	ectory.	
Operating <u>S</u> ystem Group	: oinstall	•	•
	Specify a group with write pe directory	rmission to the inventory	
Central Inventory Poir	iter File		
to create a pointer file,	pt (createCentralInventory.sh) i which is used to identity the loc strative operations, such as pa	ation of the central invento	-
Help		ОК	Cancel

#### 2). Welcome.

Velcome	
Welcome	
Auto Updates	Welcome to the Oracle Fusion Middleware 12c (12.2.1.3.0) WebLogic Server and Coherence Installer.
Installation Location Installation Type	Use this installer to create a new Oracle home that contains the Oracle WebLogic Server and Oracle Coherence software. You can use this software to configure a WebLogic Server domain for the deployment of Java applications.
Prerequisite Checks	For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware documentation library.
Installation Summary	non more anothered, see <u>moter, recor, and opprode</u> in the oracle resion modernare doublifelitation horary.
Installation Progress	Context-sensitive online help is available from the <u>H</u> elp button.
Installation Complete	

Review the information on this screen carefully to be sure you have performed all the necessary prerequisites, then click **Next** to continue.

#### 3). Auto Updates.

Oracle Fusi	on Middleware 12c WebLogic Serv	ver and Coherence Installation - Step 2 of 8 _ ×
Auto Updates		
Welcome     Auto Updates     Installation Location     Installation Type     Prerequisite Checks     Installation Summary     Installation Progress     Installation Complete	Skip Auto Updates   Select patches from directory   Location:   Search My Oracle Support for Updates   Username:   Password:   Proxy Settings	Browse
Help		< Back Next > Finish Cancel

Select option "Skip Auto Updates" to skip this screen, then click Next to continue.

#### 4). Installation Location.

nstallation Location	
Welcome	Oracle Home:
Auto Updates	/home/oracle/Oracle/Middleware/Oracle_Home
Installation Location	Feature Sets Installed At Selected Oracle Home: View
Installation Type	No Features are installed at selected Oracle Home.
Prerequisite Checks	
Installation Summary	
Installation Progress	
Installation Complete	
	The Oracle Home /home/oracle/Oracle/Middleware/Oracle_Home will be used for all Oracle Feature Sets in th installation.
	This page only shows Feature Sets installed at the selected Oracle Home. It does not show Feature Sets installed anywhere else.
Help	It does not show Feature Sets installed anywhere else.

Type the full path of the directory in the Oracle Home field, then click **Next** to continue.

#### 5). Installation Type.

Installation Type		
Welcome     Auto Updates     Installation Location     Installation Type     Prerequisite Checks     Installation Summary     Installation Progress		-
Installation Complete	Coherence Product Files 12.2.1.3.0 Web 2.0 HTTP Pub-Sub Server 12.2.1.3.0 WebLogic SCA 12.2.1.3.0 WebLogic Client Jars 12.2.1.3.0 Administrative Tools Administration Console Additional Language Help Files 12.2.1.3.0 CIE WLS Config 12.2.1.3.0 Database Support Third party JDBC Drivers 12.2.1.3.0 WebLogic Evaluation Database 12.2.1.3.0 Open Source Components Fusion Middleware Maven Support 12.2.1.3.0 Oracle Installation Infrastructure FMW Platform Generic 12.2.1.3.0 OPatch 13.9.2.0.0	

Use this screen to determine the type of installation you want to perform, then click **Next** to continue.

## 6). Prerequisite Checks.

Oracle Fusion	Middlev	vare 12c WebLogic Server and Coherence Installation - Step 5 of 8	_ ×
Prerequisite Checks			
<u>Welcome</u> <u>Auto Updates</u>		100%	
Installation Location     Installation Type     Prerequisite Checks	<b>v</b> <b>v</b>	Checking operating system certification Checking Java version used to launch the installer	
Installation Summary     Installation Progress     Installation Complete			
	Stop	Rerun Skip ✓ View Successful Tasks	View Log
		cking operating system certification cking Java version used to launch the installer	
Help		< Back Next >	ish Cancel

Prerequisite Checks results will be shown as above, click **Next** to continue.

#### 7). Installation Summary.

stallation Summary	
Welcome         Auto Updates         Installation Location         Installation Type         Prerequisite Checks         Installation Summary         Installation Progress         Installation Complete	<ul> <li>Install Oracle Fusion Middleware 12c WebLogic Server and Coherence</li> <li>Installation Location         <ul> <li>Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home</li> <li>Log File Location: /tmp/Oralnstall2018-01-15_11-46-01AM/install2018-01-15_11-46-01AM.log</li> </ul> </li> <li>Disk Space         <ul> <li>Required: 887 MB</li> <li>Available: 409687 MB</li> </ul> </li> <li>Feature Sets to Install</li> <li>Administration Console Additional Language Help Files 12.2.1.3.0</li> <li>CiFe WLS Config 12.2.1.3.0</li> <li>Core Application Server 12.2.1.3.0</li> <li>Goherence Product Files 12.2.1.3.0</li> <li>Web 2.0 HTTP Pub-Sub Server 12.2.1.3.0</li> <li>WebLogic SCA 12.2.1.3.0</li> <li>GPatch 13.9.2.0.0</li> <li>Fusion Middleware Maven Support 12.2.1.3.0</li> <li>Third party JDBC Drivers 12.2.1.3.0</li> <li>WebLogic Evaluation Database 12.2.1.3.0</li> </ul>
	Save Response File 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.

This screen contains a list of the feature sets you selected for installation, along with the approximate amount of disk space to be used by the feature sets once installation is complete. Check the information, then click **Install** to continue.

#### 8). Installation Progress.

Oracle Fusio	n Middlev	ware 12c WebL	ogic Server a	nd Coherence	e Installation - Step 7 of	8 _ ×
Installation Progress						
Y Welcome	:					
4 Auto Updates				100%		
Installation Location	<b>v</b>	Prepare				
Installation Type	1	Сору				
Prerequisite Checks	1	Generating Librarie	es			
Ý Installation Summary	. 🖌	Performing String	Substitutions			
Installation Progress	<b>v</b>	Linking				
Installation Complete	<b>v</b>	Setup				
	1	Saving the inventor	ry			
	<b>v</b>	Post install scripts	3			
	View	/ <u>M</u> essages		View Succe	essful Tasks	View Log
	-	5		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Hardware and So Engineered to Work	
Help					< <u>Back</u> <u>N</u> ext > <u>F</u> i	nish Cancel

This screen shows the progress of the installation. When the progress bar reaches 100%, the installation is complete. Click **Finish** to continue.

#### 9). Installation Complete.

<ul> <li>Welcome         <ul> <li>Installation Location             Installation Location             Installation Type             Prerequisite Checks             Installation Complete</li> <li>Installation Complete</li> </ul> </li> <li>Installation Complete         <ul> <li>Installation Complete</li> <li>Installation Complete</li> <li>Installation Complete</li> </ul> </li> <li>Installation Complete</li> <li>Installation Complete</li></ul>	Installation Complete	
	Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Progress	<ul> <li>Installation Location         <ul> <li>Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home</li> <li>Log File Location: /tmp/OraInstall2018-01-15_11-46-01AM/install2018-01-15_11-46-01AM.log</li> </ul> </li> <li>Feature Sets Installed Successfully         <ul> <li>Administration Console Additional Language Help Files 12.2.1.3.0</li> <li>CIE WLS Config 12.2.1.3.0</li> <li>Core Application Server 12.2.1.3.0</li> <li>Coherence Product Files 12.2.1.3.0</li> <li>WebLogic SCA 12.2.1.3.0</li> <li>WebLogic Client Jars 12.2.1.3.0</li> <li>FMW Platform Generic 12.2.1.3.0</li> <li>OPatch 13.9.2.0.0</li> <li>Fusion Middleware Maven Support 12.2.1.3.0</li> </ul> <li>Third party JDBC Drivers 12.2.1.3.0</li> </li></ul>
Oracle Fusion Middleware 12c WebLogic Server and Coherence installation completed successfully		Automatically Launch the Configuration Wizard

This screen appears at the conclusion of the installation. Select option "Automatically Launch the Configuration Wizard", then click Finish to dismiss the installer.

### 2. Creating and Configuring the WebLogic Domain

- 2-1. To start the domain configuration, you can choose from two options:
  - 1. From the last-shown screen Installation Complete, you can automatically launch the WebLogic Configuration Wizard through the option **Automatically Launch the Configuration Wizard**.
  - 2. You can also navigate to the directory **ORACLE\_HOME/oracle\_common/common/bin** and start the WebLogic Server Configuration Wizard by running the command ./config.sh.

#### To set up your configuration, follow the steps below:

1). Configuration Type.

	Fusion Middle	eware Configuration V	/izard - Page 1 of	8		-	×
Configuration Type							
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	What do you want  Create a new d  Domain Location:  Create a new doma	iomain ting domain racle/Oracle/Middleware/O				Brows	
Help			< <u>B</u> ack	<u>N</u> ext > Ei	nish	Cance	el

Select option "Create a New Domain" and specify the Domain home directory in the "Domain Location" field, then click Next to continue.

#### 2). Templates.

	Fusion Middleware C	onfiguration Wizard -	Page 2 of 8	_ ×
Templates				
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Available Templates Basic WebLogic Serve WebLogic Advanced V WebLogic JAX-WS SO W WebLogic Coherence Cereate Domain Using Cus	here clude all <u>s</u> elected templates er Domain - 12.2.1.3.0 [wlserve Veb Services for JAX-RPC Exte Veb Services for JAX-WS Exter AP/JMS Extension - 12.2.1.3.0 Cluster Extension - 12.2.1.3.0	nsion - 12.2.1.3.0 [oracle_common] nsion - 12.2.1.3.0 [oracle_common] 0 [oracle_common] [wlserver]	B <u>r</u> owse
Help			< <u>Back N</u> ext > <u>Finis</u>	sh Cancel

On the Templates screen select "Basic WebLogic Server Domain (selected by default)" and "WebLogic Coherence Cluster Extension" for configuration, then click Next to continue.

#### 3). Administrator Account.

	Fusion Middle	vare Configuration Wizard - Page 3 of 8	_ ×
Administrator Account			
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Name Password Confirm Password		
Help		< <u>Back</u> <u>Next</u> > <u>Finish</u>	Cancel

Specify the user name and password for the default WebLogic Administrator account for the domain, then click **Next** to continue.

#### 4). Domain Mode and JDK.

	Fusion Middleware Configuration Wizard	- Page 4 of 8	_ ×
Domain Mode and JDK			
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain Mode	l, and do not poll for applications to deploy	B <u>r</u> owse
<u>H</u> elp		< <u>Back Next &gt; Finish</u>	Cancel

Select "Development" in the Domain Mode field, select the "Oracle HotSpot" in the JDK field. Then click Next to continue.

#### 5). Advanced Configuration.

	Fusion Middleware Configuration Wizard - Page 5 of 8	_ ×
Advanced Configuration		
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Administration Server Modify Settings Node Manager Configure Node Manager Add, Delete or Modify Settings for Managed Servers, Clusters, Virtual Targets and Coherence Add, Delete or Modify Settings for Managed Servers, Clusters, Virtual Targets and Coherence	
Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish	Cancel

According to your requirements, select the desired options on the Advanced Configuration screen. Then click **Next** to continue.

## 6). Configuration Summary.

Configuration Summary		
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	View: Deployment	Name         Basic WebLogic Server Domain           Description         Create a basic WebLogic Server domain           Author         Oracle Corporation           Location         /home/oracle/Oracle/Middleware/Oracle/Oracle/Middleware/Oracle           Name         WebLogic Coherence Cluster Extension           Description         Extend an existing WebLogic Server do           Author         Oracle Corporation           Location         /home/oracle/Oracle/Middleware/Oracle/Middleware/Oracle/Oracle/Middlewarare/Middleware/Oracle/Middlewara
	Select Create to accept the above options and start creating	g and configuring a new domain. To change the above relevant page by selecting its name in the left pane, or

Review this screen to verify the information is correct, then click **Create** to continue.

#### 7). Configuration Progress.

	Fusion Middleware Configuration Wizard - Page 7 of 8	_ ×
Configuration Progress		
A Create Domain		
A Templates	100%	
Administrator Account	Copy Unprocessed Artifacts	
Domain Mode and JDK	Security Processing	
Advanced Configuration	Artifacts Generation     String Substitution	
	Image: String Substitution       Image: String Substitution       Image: String Substitution	
Configuration Summary		
Configuration Progress		
Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> inis	h Cancel

The Configuration Progress screen as shown above, once you see: "Domain Created successfully", click **Next** to continue.

#### 8). End Of Configuration.

	Fusion Middleware Configuration Wizard -	Page 8 of 8	_ ×
End Of Configuration			
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress Configuration Progress	Oracle Weblogic Server Configuration Succeeded New Domain base_domain Creation Succeeded Domain Location /home/oracle/Oracle/Middleware/Oracle_Hom Admin Server URL http://hpgen9-02:7001/console	ne/user_projects/domains/base_do	main
Help		<pre>&lt; <u>B</u>ack <u>N</u>ext &gt; <u>Fin</u></pre>	sh Cancel

Once you see: "Oracle Weblogic Server Configuration Succeeded", record the "**Domain Location**" and "**Admin Server URL**", then click **Finish** to dismiss the Configuration Wizard.

#### 3. Starting the Administration Server and verifying the Configuration

3-1.To start the Administration Server through a terminal, go to the DOMAIN\_HOME/bin directory and run the command ./startWebLogic.sh.

#### Starting the Administration Server through a terminal

2 oracle@hpgen9-02:/home/oracle/Oracle/Middleware/Oracle\_Home/user\_projects/domains/base\_domain/bin \_ 0 X File Edit View Search Terminal Tabs Help oracle@hpgen9-02:/ho... × oracle@hpgen9-02:/ho... × oracle@hpgen9-02:~ × oracle@hpgen9-02:~ × • opyright (c) 2000, 2017, Oracle and/or its affiliates. All rights reserved. :Jan 15, 2018 2:03:23,454 PM GMT+08:00> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to STANDBY :Jan 15, 2018 2:03:23,455 PM GMT+08:00> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to STARTING Jan 15, 2018 2:03:23,520 PM GMT+08:00> <Notice> <Log Management> <BEA-170036> <The Logging monitoring service imer has started to check for logged message counts every 30 seconds.> <Jan 15, 2018 2:03:23,987 PM GMT+08:00> <Notice> <Log Management> <BEA-170027> <The server has successfully esta Dished a connection with the Domain level Diagnostic Service.> <Jan 15, 2018 2:03:27,829 PM GMT+08:00> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to ADMIN.>
<Jan 15, 2018 2:03:27,898 PM GMT+08:00> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to RESUMING</pre> Jan 15, 2018 2:03:27,953 PM GMT+08:00> <Warning> <Server> <BEA-002611> <The hostname "localhost", maps to multi Jan 15, 2018 2:03:27,955 PM GMT+08:00> <Notice> <BEA-002613> <Channel "Default[2]" is now listening on 127.0.0.1:7001 for protocols iiop, t3, ldap, snmp, http.> <Jan 15, 2018 2:03:27,955 PM GMT+08:00> <Notice> <WebLogicServer> <BEA-000331> <Started the WebLogic Server Admi <Jan 15, 2018 2:03:27,955 PM GMT+08:00> <Notice> <WebLogicServer> <BEA-000331> <Started the WebLogic Server Admi
nistration Server "AdminServer" for domain "base domain" running in development mode.>
<Jan 15, 2018 2:03:27,955 PM GMT+08:00> <Notice> <Server> <BEA-002613> <Channel "Default[1]" is now listening on
0:0:0:0:0:0:0:1%lo:7001 for protocols iiop, t3, ldap, snmp, http.>
<Jan 15, 2018 2:03:27,955 PM GMT+08:00> <Notice> <Server> <BEA-002613> <Channel "Default" is now listening on
14,72.207.194:7001 for protocols iiop, t3, ldap, snmp, http.>
<Jan 15, 2018 2:03:27,956 PM GMT+08:00> <Notice> <Server> <BEA-002613> <Channel "Default" is now listening on
127.0.0.1:7001 for protocols iiop, t3, ldap, snmp, http.>
<Jan 15, 2018 2:03:27,956 PM GMT+08:00> <Notice> <Server> <BEA-002613> <Channel "Default[2]" is now listening on
127.0.0.1:7001 for protocols iiop, t3, ldap, snmp, http.>
<Jan 15, 2018 2:03:27,956 PM GMT+08:00> <Notice> <Server> <BEA-002613> <Channel "Default[2]" is now listening on
127.0.0.1:7001 for protocols iiop, t3, ldap, snmp, http.>
<Jan 15, 2018 2:03:27,956 PM GMT+08:00> <Notice> <Server> <BEA-002613> <Channel "Default[2]" is now listening on
127.0.0.1:7001 for protocols iiop, t3, ldap, snmp, http.>
<Jan 15, 2018 2:03:27,957 PM GMT+08:00> <Notice> <Server> <BEA-002613> <Channel "Default[1]" is now listening on
0:0:0:0:0:0:0:1%lo:7001 for protocols iiop, t3, ldap, snmp, http.>
<Jan 15, 2018 2:03:27,958 PM GMT+08:00> <Notice> <Server> <BEA-002613> <Channel "Default[1]" is now listening on
14,7.2.207.194:7001 for protocols iiop, t3, ldap, snmp, http.>
<Jan 15, 2018 2:03:27,958 PM GMT+08:00> <Notice> <Server> <BEA-002613> <Channel "Default[1]" is now listening on 14
7.2.207.194:7001 for protocols iiop, t3, ldap, snmp, http.>
<Jan 15, 2018 2:03:27,958 PM GMT+08:00> <Notice> <Server> <BEA-002613> <Channel "Default" is now listening on 14
7.2.207.194:7001 for protocols iiop, t3, ldap, snmp, http.>
<Jan 15, 2018 2:03:27,969 PM GMT+08:00> <Notice> <WebLogicServer> <BEA-000360> <The server started in R de.> Jan 15, 2018 2:03:27,984 PM GMT+08:00> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to RUNNING

You know that the administrator server is running when you see the following output:

Server state changed to RUNNING.

-----

#### 3-2. Access to Oracle WebLogic Server Administration Console.

#### Access to WebLogic Server Admin Console - Login page

Oracle WebLogic Server Administrat	on Console - Mozilla Firefox	- 4	×
Oracle WebLogic Server × +			
( ) S   http://hpgen9-02:7001/console/login/LoginForm.jsp 90%	C 🔍 Search 🔂 🖨 🖡	<b>r</b> 🛡	≡
ORACLE WebLogic Server Administration Console 12c			
120	Welcome         Log in to work with the WebLogic Server domain         Username:       weblogic         Password:       •••••••	Login	
WebLogic Server Version: 12.2.1.3.0 Copyright (c) 1996.2017, Oracle and/or its affiliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.		Lögn	

			Summary of Serve	ers - ba	se_domain -	WLS Conso	le - Mozilla F	irefox			-	. •	×
Summary of Servers - ba × +													
( i)   http://hpgen9-02:7001/c	onso	le/c	onsole.portal?_nfpl	o=true8	k_p 🖾 90	%   C   C	Search		☆ 🖻	+	俞		≡
	ministi	ration	Console 12c										ŏ
Change Center	(	Hon	ne Log Out Preferences 🔼	Record	Help	Q		v	Velcome, weble	ogic Cor	nnected to	base_de	omain
View changes and restarts	ŀ	-lome >	Summary of Servers										
Configuration editing is enabled. Future changes	Su	mmar	y of Servers										
will automatically be activated as you modify, add or delete items in this domain.	C	onfig	uration Control										
Domain Structure													
base_domain			ver is an instance of WebLogi					wn configuration.					
Domain Partitions     Environment		This p	age summarizes each server	that has be	en configured in the	current WebLogic	Server domain.						
Deployments	1	2											
Services													
Interoperability     Diagnostics		Cust	omize this table										
	Ш.	Serve	ers (Filtered - More Column	s Exist)									_ 11
		Ne	w Clone Delete						Showing	1 to 1 of	1 Previo	us   Next	t
			Name 🗠		Туре	Cluster	Machine	State	Health	Liste	en Port		
How do I			AdminServer(admin)		Configured			RUNNING	🖋 ок	7001			
		Net	w Clone Delete				1		Showing	1 to 1 of	1 Previo	us   Next	ť
Create Managed Servers     Clone servers		_											- 11
Delete Managed Servers													
Delete the Administration Server													
Start and stop servers													
View objects in the JNDI tree													
System Status													
Health of Running Servers as of 2:13 PM													
Failed (0)													
Critical (0)													
Overloaded (0) Warning (0)													

## Viewing WebLogic Server Admin Console - Home page

End of Oracle WebLogic Server Software.

# *Cracle Forms and Reports*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### 1. Installing Oracle Forms and Reports

#### 1-1. Prerequisites:

Installation of Oracle Forms and Reports requires:

- 1). Oracle Database 12cR2 (12.2.0.1.0) installed.
- 2). Oracle JDK 1.8.0\_131 and later installed.
- 3). Oracle WebLogic Server 12cR2 (12.2.1.3.0) (Fusion Middleware Infrastructure Installer)

# Screenshots: A brief installation setps for Fusion Middleware Infrastructure Installer is as follows:

3-1). Welcome.

Oracle Fusion Middleware 12c Infrastructure Installation - Step 1 of 8					
Welcome					
Welcome					
Auto Updates	Welcome to the Oracle Fusion Middleware 12c (12.2.1.3.0) Infrastructure Installer.				
Installation Location	Use this installer to create a new Oracle home that contains the Oracle Fusion Middleware Infrastructure				
Installation Type	software. You can then install additional Fusion Middleware products that require the Infrastructure into the Oracle home, or you can use the Infrastructure to configure a WebLogic Server domain for the deployment of				
Prerequisite Checks	Java and Oracle ADF applications.				
unstallation Summary	For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware documentation library.				
↓ Installation Progress	Context-sensitive online help is available from the Help button.				
Unstallation Complete					
	Copyright © 1996, 2017, Oracle and/or its affiliates. All rights reserved.				
Help	< Back Next > Finish Cancel				

nstallation Type		
Welcome         Auto Updates         Installation Location         Installation Type         Prerequisite Checks         Installation Summary         Installation Progress         Installation Complete		
	CIE WLS Config 12.2.1.3.0 Enterprise manager 12.2.1.3.0 Database Support Third party JDBC Drivers 12.2.1.3.0 WebLogic Evaluation Database 12.2.1.3.0 Open Source Components Fusion Middleware Maven Support 12.2.1.3.0 JRF and Enterprise Manager WLS for FMW 12.2.1.3.0 Oracle Automatic Diagnostic Repository Feature Set Group	

#### 3-2). Installation Type.

## 3-3). Installation Complete.

nstallation Complete					
Welcome	Install Oracle Fusion Middleware 12c Infrastructure				
Auto Updates	Installation Location				
Installation Location	Oracle Home Location: /home/oracle/Oracle/I	Middleware/Oracle_Home			
	Log File Location: /tmp/Orainstall2018-01-24_0	04-35-06PM/install2018-01-24_04-35-06P	M.log		
Installation Type	Feature Sets Installed Successfully				
Prerequisite Checks	Administration Console Additional Language H	elp Files 12.2.1.3.0			
Installation Summary	CIE WLS Config 12.2.1.3.0				
	Enterprise manager 12.2.1.3.0				
Installation Progress	Fusion Middleware Maven Support 12.2.1.3.0				
Installation Complete	WLS for FMW 12.2.1.3.0				
	FMW Platform Generic 12.2.1.3.0				
	0Patch 13.9.2.0.0				
	Toplink Developer 12.2.1.3.0				
Core Application Server 12.2.1.3.0					
	Coherence Product Files 12.2.1.3.0				
Web 2.0 HTTP Pub-Sub Server 12.2.1.3.0					
	WebLogic SCA 12.2.1.3.0 WebLogic Client Jars 12.2.1.3.0				
	Third party JDBC Drivers 12.2.1.3.0				
	WebLogic Evaluation Database 12.2.1.3.0				
	Next Step(s):				
	See the online help for next steps after installation.				
	Oracle Fusion Middleware 12c Infrastructure installation	completed successfully			

1-2. Log in to the target system (SUSE Linux Enterprise Server 12 64-bit OS) as a non-admin user. Download the Oracle Forms and Reports 12c (12.2.1.3.0) from <u>http://www.oracle.com/technetwork/indexes/downloads/index.html#middleware</u>. (**Note:** Please ensure the installation user has the proper permissions to install and configure the software.)

1-3. Go to the directory where you downloaded the installation program. Extract the contents of these .zip (fmw\_12.2.1.3.0\_fr\_linux64\_Disk1\_1of1.zip and fmw\_12.2.1.3.0\_fr\_linux64\_Disk1\_2of2.zip) files and launch the installation program by running '**fmw\_12.2.1.3.0\_fr\_linux64.bin**'.

#### For the actual installation, follow the steps below:

1). Welcome page.

	Oracle Forms and Reports Installation - Step 1 of 9 _ ×
Welcome	
Welcome       Auto Updates         Installation Location       Installation Type         JDK Selection       Prerequisite Checks         Installation Summary       Installation Progress         Installation Complete       Installation Complete	<form><form><form></form></form></form>
Help	< Back Next > Finish Cancel

This page welcomes you to the installation. Click Next to continue.

<ol><li>The Auto Updates page appears</li></ol>	2).	The Auto	Updates	page	appears
---	-----	----------	---------	------	---------

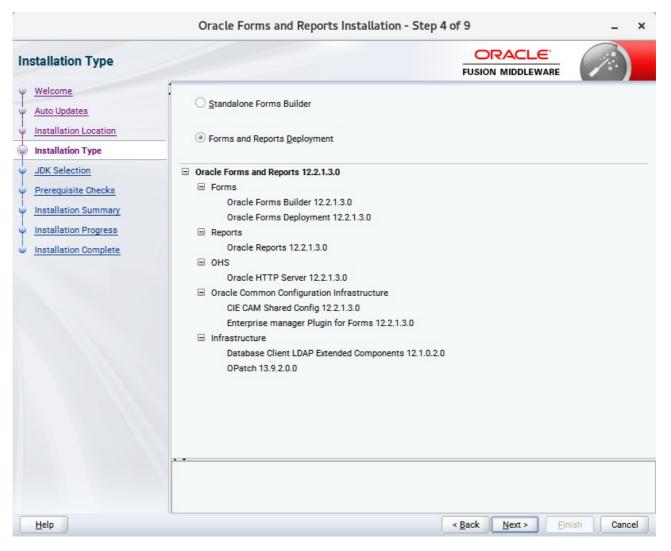
	Oracle Forms an	d Reports Installation	- Step 2 of 9	_ ×
Auto Updates				
Welcome         Auto Updates         Installation Location         Installation Type         JDK Selection         Prerequisite Checks         Installation Summary         Installation Complete	Skip <u>A</u> uto Updates   Select patches from dir   Location:   Search <u>My</u> Oracle Supp   Username:   Password:   Prox   Search			Browse
Help			< <u>B</u> ack <u>N</u> ext >	Einish Cancel

This page enables you to choose to automatically receive software updates for your components from Oracle Corporation. make your choices, then click **Next** to continue.

stallation Location			
Welcome	Oracle Home:		
Auto Updates	/home/oracle/Oracle/Middleware/Oracle_Home		<ul> <li>Browse</li> </ul>
Installation Location	Feature Sets Installed At Selected Oracle Home: View		
Installation Type			Г
	□ Oracle Fusion Middleware 12c Infrastructure 12.2.1.3.0		r
JDK Selection	Core Server		
Prerequisite Checks	Core Application Server 12.2.1.3.0		
Installation Summary	Coherence Product Files 12.2.1.3.0		
Installation Progress	Web 2.0 HTTP Pub-Sub Server 12.2.1.3.0		
	WebLogic SCA 12.2.1.3.0		
Installation Complete	WebLogic Client Jars 12.2.1.3.0		
	Administrative Tools		
	Administration Console Additional Language Help Files 1	2.2.1.3.0	
	CIE WLS Config 12.2.1.3.0		
	Enterprise manager 12.2.1.3.0		
	Database Support		
	Third party JDBC Drivers 12.2.1.3.0		
	WebLogic Evaluation Database 12.2.1.3.0		
	Open Source Components		
	Fusion Middleware Maven Support 12.2.1.3.0		
	JRF and Enterprise Manager		
	WLS for FMW 12.2.1.3.0		
	Oracle Automatic Diagnostic Repository Feature Set Group		
	FMW Platform Generic 12.2.1.3.0		L
	Oracle Home may only contain alphanumeric, underscore (_), hyphe alphanumeric character.	n (-) or dot(.) characters and in	t must begin with

# 3). The Installation Location page appears.

Specify the Oracle home location into which you want to install the product(s). Click **Next** to continue.



## 4). The Installation Type page appears.

You can select **Standalone Forms Builder** if you want only that functionality, or choose **Forms and Reports Deployment** to install all of the products. Click **Next** to continue.

Oracle Forms and Reports Installation - Step 5 of 9					
JDK Selection					
Y Welcome	· JDK Home:				
Auto Updates	/home/oracle/ORACLE_SW/Java/jdk1.8.0_144		▼ B <u>r</u> owse		
Installation Location					
Installation Type					
JDK Selection					
Prerequisite Checks					
unstallation Summary					
Unstallation Progress					
Installation Complete					
	The selected JDK will be used for this installation				
Help		< Back Next > Ei	nish Cancel		

# 5). The **JDK Selection** page appears.

The selected JDK will be used for this installation. Click Next to continue.

,	Ora	acle Forms and Reports Installation - Step	6 of 9	_ ×
Prerequisite Checks				
Y Welcome				
<u>Auto Updates</u>		100%		
Installation Location	<b>v</b>	Checking operating system certification		
Installation Type	~	Checking recommended operating system packages		
U JDK Selection	1	Checking kernel parameters		
Prerequisite Checks	~	Checking physical memory		
Installation Summary	~	Checking Java version used to launch the installer		
Installation Progress				
Unstallation Complete				
	Stop	Rerun Skip	essful <u>T</u> asks	View Log
		cking operating system certification		<b>_</b>
		cking recommended operating system packages cking kernel parameters		
		cking physical memory		-
Help			< <u>B</u> ack <u>N</u> ext >	Einish Cancel

# 6). The **Prerequisite Checks** page appears.

Prerequisite Checks results will be shown as above, click **Next** to continue.

# 7). The Installation Summary page appears.

	ep 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 Forms and Reports</li> <li>Installation Location         <ul> <li>Oracle Home Location: /home/oracle/Oracle/Mid Log File Location: /tmp/Oralnstall2018-01-24_04-5</li> <li>Disk Space</li></ul></li></ul>	53-58PM/install2018-01-24_04-53-58F .0.2.0	
Help		< Back Next >	stall Cancel

This page shows you what components and features are about to be installed. If you need to make changes, click **Back**, otherwise, click **Install** to start the installation.

,	Ora	acle Forms and Reports Installation - Step 8 of 9 _ ×
Installation Progress		
Y Welcome	1	
Auto Updates		100%
Installation Location	<b>v</b>	Prepare
Ú Installation Type	1	Сору
U JDK Selection	1	Generating Libraries
Prerequisite Checks	1	Performing String Substitutions
Installation Summary		Linking
Installation Progress	<b>v</b>	Setup
Installation Complete	<b>v</b>	Saving the inventory
	1	Post install scripts
	View	v <u>M</u> essages ✓ <u>V</u> iew Successful Tasks View <u>L</u> og
	-	Hardware and Software Engineered to Work Together
Help		< Back Next > Finish Cancel

## 8). The Installation Progress page appears.

This page shows you the progress of the installation, and will warn you if there are any problems. You can view messages and logs from this page, but typically no action is required here. When progress is complete, click **Next** (go to a Summary page). Alternatively, you can click **Finish**.

9). If you clicked **Next**, the **Installation Complete** page appears, showing you the components that have been installed.

Installation Complete		
Welcome Auto Updates Installation Location Installation Type JDK Selection Prerequisite Checks Installation Summary Installation Progress Installation Complete	<ul> <li>Install Oracle Forms and Reports</li> <li>Installation Location Oracle Home Location: /home/oracle/Oracle/Mi Log File Location: /tmp/Oralnstall2018-01-24_04-</li> <li>Feature Sets Installed Successfully Oracle Reports 12.2.1.3.0 Oracle HTTP Server 12.2.1.3.0 Oracle Forms Builder 12.2.1.3.0 Oracle Forms Deployment 12.2.1.3.0 CIE CAM Shared Config 12.2.1.3.0 Enterprise manager Plugin for Forms 12.2.1.3.0 Database Client LDAP Extended Components 12.1</li> <li>Pre-Existing Feature Sets OPatch 13.9.2.0.0</li> </ul>	ddleware/Oracle_Home 53-58PM/install2018-01-24_04-53-58PM.log
	Next Step(s): 1. Create a domain using the Configuration Wizard. 2. Start Node Manager and Domain Servers. Reference Installing and Configuring Oracle Forms & Repo	rts available on OTN for detailed instructions.
	Oracle Forms and Reports installation completed successf	ully

Click **Finish** to dismiss the installer.

# 2. Creating Oracle Database Schema through Repository Creation Utility(RCU)

2-1. Repository Creation Utility (RCU) is available with the Oracle WebLogic Server 12cR2 Fusion Middleware Infrastructure distribution. Run **\$FMW\_HOME/oracle\_common/bin/rcu** and create required database schemas for Oracle Forms and Reports.

pository Creation Utility	,			
<u>Welcome</u> <u>Create Repository</u> <u>Database Connection Details</u>	Specify a unique prefix for all sch schemas later.	emas created in this session,	so you can easily locate, reference, and manage	e th
Select Components				
Schema Passwords	Create new prefix: DEV			
A CONTRACTOR OF		Alpha numeric only. Cann	ot start with a number. No special characters.	
Map Tablespaces	0t		Delawara Damara	_
Summary	Component		Schema Owner	
Completion Summary	AS Common Schemas			
		structure Services *	DEV_STB	_
		n Security Services	DEV_OPSS	
	User Messagin		UMS	_
	Audit Services		DEV_IAU	
	Audit Services	Append	DEV_IAU_APPEND	
	Audit Services	Viewer	DEV_IAU_VIEWER	
	Metadata Serv	ices	MDS	
	Weblogic Servi	ices *	DEV_WLS	
	* Mandatory component. Ma	ndatory components cannot be	e deselected.	

Select the **Create new prefix** radio button and provide a schema prefix (such as DEV). Select the following components: **Common Infrastructure Services**\*,**Oracle Platform Security Services**, **Audit Services**, **Audit Services Append**, **Audit Services Viewer** and **Weblogic Services**\*. Ensure the schema creation is successful.

(**Note:** If Forms Application Deployment Services (FADS) is also planned to be configured, include **User Messaging Services** (UMS).)

# 3. Configuring Oracle Forms and Reports using the Config Wizard

3-1. In order to complete the configuration. Run the config wizard using **config.sh** located in the **ORACLE\_HOME/oracle\_common/common/bin** directory.

#### Follow these steps:

1). Choose **Create a new domain**, and enter the desired domain home path.

Fusion Middleware Config				guration Wizard - Page 1 of 8				-	×	
Configuration Type								K		
🙊 Create Domain										
A Templates										
Administrator Account										
Domain Mode and JDK										
Advanced Configuration										
<u>Configuration Summary</u>	110									
Configuration Progress	What do you want	to do?								
End Of Configuration	Oreate a new of the second	lomain								
	O Update an exis	ting domain								
	Domain Location:		e/Middleware,	Oracle_Hom	e/user_proje	cts/domains/t	base_doma	ain	B <u>r</u> owse	•
Help	L				< <u>B</u> ack	<u>N</u> ext >	<u> </u>	1	Cance	1

2).	The	Templates	screen	appears.
-----	-----	-----------	--------	----------

	Fusion Middleware (	Configuration Wizard - P	age 2 of 12	_ ×
Templates				RE
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Available Templates	ie here Include all <u>s</u> elected templates rver Domain - 12.2.1.3.0 [wlserver cation Deployment Service (FADS .1.3.0 [forms] ade only) - 12.2.1.3.0 [forms] lication - 12.2.1 [reports] lication (upgrade only) - 12.2.1 [re lanager - 12.2.1.3.0 [em] lanager-Restricted JRF - 12.2.1.3. r (Collocated) - 12.2.1.3.0 [ohs] r (Restricted JRF) - 12.2.1.3.0 [ohs]	s) - 12.2.1.3.0 [forms] ports] 0 [em] s]	ied templates
Help			< <u>B</u> ack <u>N</u> ext >	Einish Cancel

Keep the default selection (Create Domain using Product Templates). Select

```
Oracle Forms – 12.2.1.3.0 [forms],
Oracle Reports Server – 12.2.1 [ReportsServerComponent],
Oracle Reports Tools – 12.2.1 [ReportsServerComponent],
Oracle Reports Bridge – 12.2.1 [ReportsServerComponent],
Oracle Reports Application – 12.2.1 [reports]
and Oracle HTTP Server(Collocated) – 12.2.1.3.0 [ohs].
```

Any dependent templates will be automatically selected. Click **Next** to continue.

	Fusion Middlewa	are Configuration Wizard - Page 3 of 12	_ ×
Application Location			
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain name: Domain location: Application location:	base_domain /home/oracle/Oracle/Middleware/Oracle_Home/user_projects/domains Oracle/Middleware/Oracle_Home/user_projects/applications/base_domain	Browse
Help		< <u>B</u> ack <u>N</u> ext > <u>F</u> inish	Cancel

# 3). The Application Location screen appears.

Keep the default value for Application location. Click  $\ensuremath{\textbf{Next}}$  to continue.

Fusion Middleware Configuration Wizard - Page 4 of 12 –								
Administrator Account								
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Name Password Confirm Password Must be the same as number or special ch	weblogic	at least 8 alphanumeric charact	ers with at least one				
Help			< <u>B</u> ack <u>N</u> ext >	inish Cancel				

## 4). The Administrator Account screen appears.

Enter the WebLogic Domain administration username and password. This information will be needed to access WebLogic Server Control and Fusion Middleware Control. Click **Next** to continue.

	Fusion Middleware Configuration Wizard - Page 5 of 12	- ×
Domain Mode and JDK		
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain Mode         Development         Utilize boot.properties for username and password, and poll for applications to deploy.            Production         Require the entry of a username and password, and do not poll for applications to deploy.          JDK             Oracle HotSpot 1.8.0_144 /home/oracle/ORACLE_SW/Java/jdk1.8.0_144          Other JDK Location:	Browse
Help	< <u>Back</u> <u>Next &gt;</u> <u>Finish</u>	Cancel

## 5). The Domain Mode and JDK screen appears.

The Domain Mode and JDK screen appears. Select the Domain Mode (either **Development** or **Production**). To ensure the highest degree of security, selecting **Production** is recommended. Leave the default JDK selection as it appears, unless using another version of the JDK desired.

	Fusion Middleware Configuration Wizard - Page 6 of 12 _ ×
Database Configuration Type	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Specify AutoConfiguration Options Using:            • <u>B</u> CU Data          Manual Configuration         Enter the database connection details using the schema credentials corresponding to Common Infrastructure Services component in the Repository Creation Utility. The Wizard uses this connection to automatically configure the datasources required for components in this domain.         Vendor:       Oracle       Driver: *Oracle's Driver (Thin) for Service connections; Versions: •            • Connection Parameters        Connection URL String         Host Name:       hpgen9-02         DBMS/Service:       suse       Port:         Schema Owner:       DEV_STB       Schema Password:         Get RCU Configuration       Cancel         Connection Result Log       Connection database serverOK         Retrieving schema data from database serverOK       Binding local schema components with retrieved dataOK         Successfully Done.       •
	Click "Next" button to continue.
<u>H</u> elp	< <u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel

# 6). The **Database Configuration Type** screen appears.

Enter the RCU DB connection information, then click **Get RCU Configuration**. You should receive a success message. Click **Next** to continue.

	Fu	sion Middleware Co	nfiguration \	Vizard - Page	7 of 12		_ ×
JDBC Component Schema							
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary	Ho     DB     Scl     Ora	ndor: Connection Parameters St Name: MS/Service: Stream Owner: Stream Owner: Stream Owner: Stream Owner: Stream Owner to G	Connection P P S Component scher GridLink O C	ort: chema Password: nas: onvert to RAC mult		O Don't convert	
Configuration Progress		Component Schema	DBMS/Service	Host Name	Port	Schema Owner	Schema Pas
<ul> <li>End Of Configuration</li> </ul>	Iн	LocalSvcTbl Schema	SUSE	hpgen9-02	1521	DEV_STB	
		WLS Schema	SUSE	hpgen9-02	1521	DEV_WLS_RUNTIME	
		OPSS Audit Schema	SUSE	hpgen9-02	1521	DEV_IAU_APPEND	
		OPSS Audit Viewer Sche	SUSE	hpgen9-02	1521	DEV_IAU_VIEWER	
		OPSS Schema	SUSE	hpgen9-02	1521	DEV_OPSS	
Help				< 8	ack <u>N</u> e	ext > Einish	Cancel

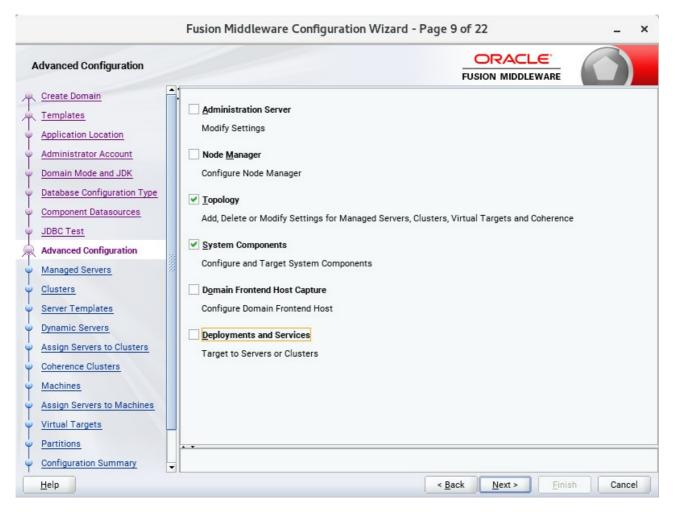
# 7). The JDBC Component Schema screen appears.

Our instructions assume each Repository schema uses the same password. If not, enter the correct schema passwords. Click **Next** to continue.

		Fusio	on M	iddleware Configuration Wizard -	Page 8 of	12		_	. ×
	JDBC Component Schema Test				FU		_		
4	Create Domain	🔽 s	tatus	Component Schema		JDBC Co	nnecti	on URL	
4	Templates		1	LocalSvcTbl Schema	jdt	c:oracle:thin:@//hp	ogen9-	02:1521/SU	SE
J	Application Location		1	WLS Schema	jdt	oc:oracle:thin:@//hp	ogen9-	02:1521/SU	SE
	Administrator Account		1	OPSS Audit Schema	jdt	oc:oracle:thin:@//hp	ogen9-	02:1521/SU	SE
T			1	OPSS Audit Viewer Schema	jdt	oc:oracle:thin:@//hp	ogen9-	02:1521/SU	SE
ľ	Domain Mode and JDK		1	OPSS Schema	jdt	oc:oracle:thin:@//hp	ogen9-	02:1521/SU	SE
Ý	Database Configuration Type								
Ý	Component Datasources								
¢	JDBC Test								
4	Advanced Configuration								
5	Configuration Summary								
J	Configuration Progress	Te	st Se	ected Connections					
9	End Of Configuration			Result Log					
		Compo Driver= URL=jd User=D Passw SQL Te CFGFW	onent oracl lbc:or DEV_S ord=* est=S	Schema=LocalSvcTbl Schema e.jdbc.OracleDriver acle:thin:@//hpgen9-02:1521/SUSE					
	Help				< <u>B</u> ack	<u>N</u> ext >	Einist	Ca	ancel

# 8). The JDBC Component Schema Test screen appears.

The tests are run and the results given. Ensure all test results are successful.Click **Next** to continue.



## 9). The Advanced Configuration screen appears.

Select Topology and System Components. Click Next to continue.

Managed Servers							
<u>Create Domain</u> Templates		Add 🖹 C	one X Delete			Dis <u>c</u>	ard Changes
Application Location Administrator Account		Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Group
Domain Mode and JDK		WLS_FORMS	All Local Addresses 👻	9001		Disabled	FORMS-MA
Database Configuration Type		WLS_REPORTS	All Local Addresses 🔻	9002		Disabled	REPORTS-A
Advanced Configuration	10000						
Managed Servers Clusters Server Templates Dynamic Servers Assign Servers to Clusters Coherence Clusters Machines Assign Servers to Machines Virtual Targets Partitions							

# 10). The Managed Servers screen appears.

Verify that the Server Groups is set to FORMS-MAN-SVR (for Forms) and REPORTS-APP-SERVERS (for Reports). The Listen address is All Local Addresses. Click **Next** to continue.

Fusion Middleware Configuration Wizard - Page 11 of 22 _ ×								
Clusters								
Templates	Add	X Delete			<b>D</b>	s <u>c</u> ard Changes		
Application Location     Administrator Account	Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS Port	Dynamic Server Groups		
	cluster_forms			0	0	Unspecified 💌		
Domain Mode and JDK	cluster_reports			0	0	Unspecified 🔻		
Database Configuration Type								
<u>Component Datasources</u>								
JDBC Test								
Advanced Configuration								
Managed Servers	÷							
Clusters								
<ul> <li>Server Templates</li> </ul>								
Dynamic Servers								
Assign Servers to Clusters								
<u>Coherence Clusters</u>								
Machines								
Assign Servers to Machines								
Virtual Targets								
Partitions								
Configuration Summary	-							
Help				< <u>B</u> ack N	ext > <u>Finish</u>	Cancel		

# 11). The **Clusters screen** appears.

Default entries will be acceptable in most cases, unless adding new clusters is desirable. Click **Next** to continue.

	Fusion Middleware	Configuration Wizard -	Page 12 of 22	_ ×
Server Templates				
Templates	Add X Del	lete		🗐 Discard Changes
Application Location     Administrator Account	Name	Listen Port	SSL Listen Port	Enable SSL
Domain Mode and JDK     Database Configuration Type				
<u>Component Datasources</u>				
<u>JDBC Test</u> <u>Advanced Configuration</u>	24			
<u>Managed Servers</u> Clusters				
Server Templates				
Dynamic Servers				
<u>Assign Servers to Clusters</u> <u>Coherence Clusters</u>				
• Machines				
Assign Servers to Machines     Virtual Targets				
Partitions				
<u>Configuration Summary</u>				
Help			< <u>B</u> ack <u>N</u> ext >	Einish Cancel

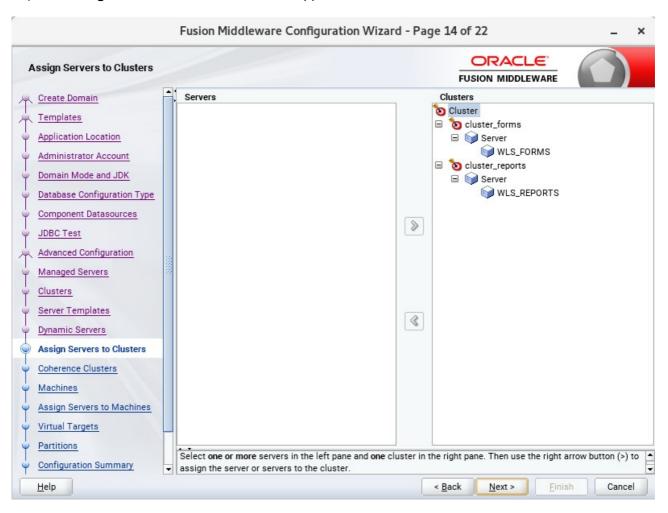
12). Then **Server Templates** screen appears.

The default values will be appropriate for most cases. Click **Next** to continue.

	Fusion M	liddleware C	onfiguratio	n Wizard - I	Page 13 of	22		_ ×
Dynamic Servers								
↓ Create Domain ↓ Templates							Dis <u>c</u> ard	Changes
Application Location Administrator Account Domain Mode and JDK	Cluster Name	Server Name Prefix	Server Template	Dynamic Cluster Size	Machine Name Match Expression	Calculated Machine Names	Calculated Listen Ports	Dynamic Cluster
Database Configuration Type	cluster_for	m Disabled	Unspecifi*	Disabled	Disabled			
Component Datasources	cluster_rep	oor Disabled	Unspecifi•	Disabled	Disabled			
Advanced Configuration Managed Servers Clusters Server Templates Dynamic Servers								
Assign Servers to Clusters								
<u>Coherence Clusters</u>								
Machines								
Assign Servers to Machines								
Virtual Targets								
Partitions								
<u>Configuration Summary</u>	-							

# 13). The **Dynamic Servers** screen appears.

The default values will be appropriate for most cases. Click **Next** to continue.



14). The Assign Servers to Clusters screen appears.

The default values will be appropriate for most cases. However, if new managed servers were added in the previous step, they should be added to the cluster here. Click **Next** to continue.

Fusion Middleware Configuration Wizard - Page 15 of 22 _ ×							
Coherence Clusters							
Templates					5	Discard Changes	
Application Location		Cluster Name			Cluster Listen P	ort	
Administrator Account		defaultCoherenceCluster		7574			
Domain Mode and JDK							
Database Configuration Type							
Component Datasources							
UDBC Test							
Advanced Configuration							
Managed Servers	1995						
Clusters							
Server Templates							
Dynamic Servers							
Assign Servers to Clusters							
Coherence Clusters							
Machines							
Assign Servers to Machines							
Virtual Targets							
Partitions		• •					
Configuration Summary	•						
Help				< <u>B</u> ack	<u>N</u> ext > <u>F</u> in	ish Cancel	

15). The **Coherence Clusters** screen appears.

The default values will be appropriate for most cases. Click **Next** to continue.

	Fusion Middleware Configu	ration Wizard - Page 16 of 22	_ ×
Machines			
<u>Create Domain</u> <u>Templates</u> <u>Application Location</u> <u>Administrator Account</u>	Machine Unix Machine		Discard Changes
Domain Mode and JDK	Name AdminServerMachine	Node Manager Listen Address	Node Manager Listen Port 5556
Database Configuration Type     Component Datasources     JDBC Test     Advanced Configuration     Managed Servers     Clusters     Server Templates     Dynamic Servers     Assign Servers to Clusters     Coherence Clusters     Machines     Assign Servers to Machines			
<u>Virtual Targets</u> Partitions			
<u>Configuration Summary</u>	•		
Help		< Back Nex	t > Einish Cancel

# 16). The **Machines** screen appears.

You can use this screen to override the machine name or add addition Machine names for extend domain. Click **Next** to continue.

-	Fusion Middleware Configuration Wizard - F	Page 17 of 22 _ ×
Assign Servers to Machines		
Create Domain	Servers	Machines
A Templates		Machine
Application Location		AdminServerMachine     AdminServer
Administrator Account		WLS_FORMS
Domain Mode and JDK		WLS_REPORTS
Database Configuration Type		
<u>Component Datasources</u>	8	1
UDBC Test		
Advanced Configuration		
Managed Servers		
<u>Clusters</u>		
Server Templates		
Dynamic Servers	3	
Assign Servers to Clusters		
φ Coherence Clusters		
Machines		
Assign Servers to Machines		
<u>Virtual Targets</u>		
Partitions	Select one or more servers in the left pane and one machin	e in the right name. Then use the right arrow button (s)
Configuration Summary	to assign the server or servers to the machine.	e in the right pane. Then use the right arrow button (>)
Help		< Back Next > Finish Cancel

17). The Assign Servers to Machines screen appears.

Move the AdminServer to the AdminServerMachine by clicking the '>' button. Click **Next** to continue.

	Fusion Middleware	e Configuration W	/izard - Page	18 of 22		_ ×
Virtual Targets						
Templates		elete			🔊 Dis <u>c</u> ard	Changes
Application Location     Administrator Account	Name	Target	Host Names	URI Prefix	Explicit Port	Port Offset
Domain Mode and JDK						
Database Configuration Type     Component Datasources						
JDBC Test     Advanced Configuration						
Managed Servers						
<u>Clusters</u> <u>Server Templates</u>						
Dynamic Servers     Assign Servers to Clusters						
Coherence Clusters						
<u>Machines</u> <u>Assign Servers to Machines</u>						
Virtual Targets						
<u>Partitions</u> <u>Configuration Summary</u>	-					
Help			< <u>E</u>	ack <u>N</u> ext >	<u>F</u> inish	Cancel

# 18). The Virtual Targets screen appears.

Used with WebLogic Server Partitions. Refer to the WebLogic Server documentation for details. Click **Next** to continue.

	Fusion Middl	leware Configurati	on Wizard - Page	19 of 22	_ ×
Partitions					
<u> <u>         Create Domain</u> <u>         Templates     </u> </u>	Add	X Delete		5	Dis <u>c</u> ard Changes
Application Location			Name		
Administrator Account					
Domain Mode and JDK					
Database Configuration Type     Component Datasay					
<u>Component Datasources</u> JDBC Test					
Advanced Configuration					
Wanaged Servers					
<u>Clusters</u>					
Server Templates					
Dynamic Servers					
Assign Servers to Clusters					
Coherence Clusters					
Machines					
<ul> <li>Assign Servers to Machines</li> <li>Virtual Targets</li> </ul>					
Virtual Targets     Partitions					
Configuration Summary	-				
Help			< <u>E</u>	Back <u>N</u> ext > <u>F</u> ini	sh Cancel

## 19). The **Partitions** screen appears.

The Partitions screen appears. Use this screen to add Weblogic Partitions if desired. Refer to the WebLogic Server documentation for details on how to use Partitions. Click **Next** to continue.

System Components				
Create Domain		ete		🗐 Dis <u>c</u> ard Changes
Application Location	System Component	Component Type	Restart Interval Seconds	Restart Delay Seconds
Administrator Account	forms1	FORMS	3600	
Domain Mode and JDK	ohs1	OHS 💌	3600	
IDBO Test				
JDBC Test Advanced Configuration Managed Servers Clusters Server Templates Dynamic Servers				
Advanced Configuration Managed Servers Clusters Server Templates Dynamic Servers Assign Servers to Clusters				
Advanced Configuration Managed Servers Clusters Server Templates Dynamic Servers				
Advanced Configuration Managed Servers Clusters Server Templates Dynamic Servers Assign Servers to Clusters Coherence Clusters				
Advanced Configuration Managed Servers Clusters Server Templates Dynamic Servers Assign Servers to Clusters Coherence Clusters Machines				

20). The System Components screen appears.

The default values will be appropriate for most cases. You can add additional System Component instances on this screen (for extend domain scenario). If adding OHS, it would appear here. Click **Next** to continue.

# 21). The **OHS Server** screen appears.

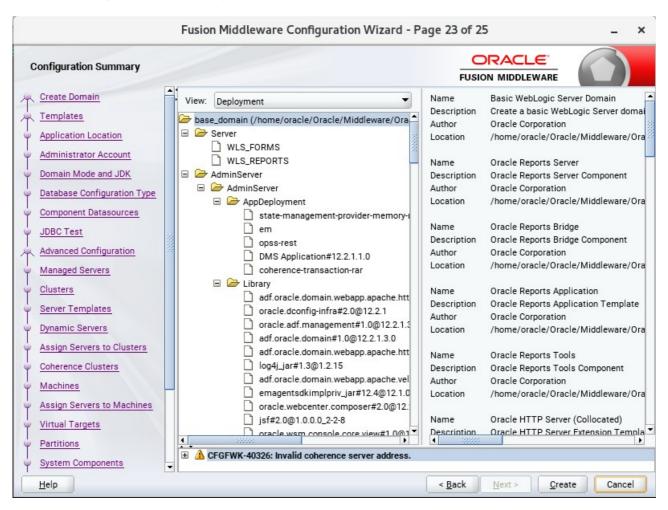
	Fusion Middlewa	re Configuration Wizard - Page 21 of 25	_ ×
OHS Server			_
Create Domain         Templates         Application Location         Administrator Account         Domain Mode and JDK         Database Configuration Type         Component Datasources         JDBC Test         Advanced Configuration         Managed Servers         Clusters         Server Templates         Dynamic Servers         Assign Servers to Clusters         Coherence Clusters         Machines         Assign Servers to Machines         Virtual Targets         Partitions         System Components	System Component Admin Host Admin Port Listen Address Listen Port SSL Listen Port Server Name	ohs1 127.0.0.1 7779 7777 4443 http://localhost:7777	
Help		< <u>B</u> ack <u>N</u> ext >	Einish Cancel

The default values will be appropriate for most cases. Click **Next** to continue.

	Fusion Middleware Configuration Wizard - Pa	ge 22 of 25 _ ×
Assign System Components to	Machines	
Create Domain		Machines
Templates		Machine
Application Location		AdminServerMachine SystemComponent
Administrator Account		↓ c,cccn,poince
Domain Mode and JDK		📦 ohs1
Database Configuration Type		
<u>Component Datasources</u>	8	
JDBC Test		
Advanced Configuration		
Managed Servers		
<u>Clusters</u>		
Server Templates		
Dynamic Servers	(4)	
Assign Servers to Clusters		
<u>Coherence Clusters</u>		
Machines		
Assign Servers to Machines		
Virtual Targets		
Partitions		
System Components	Select one or more system components in the left pane and or arrow button (>) to assign the system component or component	
<u>H</u> elp		< <u>Back Next &gt; Einish</u> Cancel

22). The Assign System Components screen appears.

The default values will be appropriate for most cases. Click **Next** to continue.



## 23). The Configuration Summary screen appears.

Select Create to accept the above options and start creating and configuring a new domain.

		Fu	sion Middleware Config	uration Wizard - Pag	ge 24 of 2	5		_ ×
Co	onfiguration Progress						C	
	Create Domain			100%				_
X	Templates							
Ý.	Application Location	1	Copy Unprocessed Artifacts					
ý.	Administrator Account	1	OPSS Processing					
ų	Domain Mode and JDK	4	Security Processing Artifacts Generation					
4	Database Configuration Type	1	String Substitution					
	Component Datasources	4	Post Processing					
ý.	JDBC Test	-						
A.	Advanced Configuration	202						
Ý	Managed Servers							
Ŷ	Clusters							
Ý	Server Templates							
Ý	Dynamic Servers							
ý,	Assign Servers to Clusters							
ý,	Coherence Clusters							
Ý	Machines							
ý.	Assign Servers to Machines							
ų.	Virtual Targets							
Ý	Partitions							
Ý	System Components	-L						
	Help				< <u>B</u> ack	<u>N</u> ext > Ein	nish	Cancel

24). The **Configuration Progress** screen appears.

Wait for this part of the configuration to complete. Depending on the location and performance of the Repository database, this process may take a few minutes. Click **Next** to continue.



	Fusion Middleware Configuration Wizard - Page 25 of 25 -	×
End Of Configuration		
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Managed Servers Clusters Server Templates Dynamic Servers Assign Servers to Clusters Coherence Clusters Machines Assign Servers to Machines	Oracle Weblogic Server Configuration Succeeded New Domain base_domain Creation Succeeded Domain Location /home/oracle/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain Admin Server URL http://hpgen9-02:7001/console	
Virtual Targets Partitions System Components	After successful domain creation, you must run the WLST command ohs_updateInstances() to complete all required steps. Please refer to OHS product documentation for more details.	the
Help	< <u>B</u> ack <u>N</u> ext > <u>Finish</u> Car	ncel

Once you see: "Oracle Weblogic Server Configuration Succeeded", record the '**Domain Location**' and '**Admin Server URL'**, then click **Finish** to dismiss the Configuration Wizard.

# 4. Verifying Oracle Forms and Reports Installation and Configuration

4-1. Check for the presence of installation log files in logs directory inside your Oracle Inventory directory. Also, check the domain server logs, which are located in the servers directory inside the domain home directory.

4-2. Starting the Node Manager and the AdminServer.

# Starting the Node Manager, go to the DOMAIN\_HOME/bin directory and run ./startNodeManager.sh > nm.out&

2	oracle@hpgen9-02:/home/oracle/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/bin _ u	3
ile	lit View Search Terminal Tabs Help	
ora	@hpgen9-02:/home/oracle/O × oracle@hpgen9-02:/home/oracle/O × oracle@hpgen9-02:/home/oracle/O ×	
	hpgen9-02:/home/oracle/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/bin> ./startNo	odeŀ
		cle@hpgen9-02:/home/oracle/O × oracle@hpgen9-02:/home/oracle/O × II - ddleware/Oracle_Home/user_projects/domains/base_domain/bin> ./startNodeMa ddleware/Oracle_Home/user_projects/domains/base_domain/bin> + /home/oracl_ server -Xms32m -Xmx200m -Djdk.tls.ephemeralDHKeySize=2048 -Dcoherence.hd e_Home/Wlserver//coherence -Dbea.home=/home/oracle/Middleware/Or =/home/oracle/Oracle/Middleware/Oracle_Home/ohs_Dreports.tools.product. home/oracle/Oracle/Middleware/Oracle_Home/ohs_Dreports.tools.product. beme=/home/oracle/Oracle/Middleware/Oracle_Home/ReportsServerComponent e/Middleware/Oracle_Home/oracle/Oracle_Home/ReportsServerComponent e/Middleware/Oracle_Home/oracle_Oracle_Home/ReportsServerComponent e/Middleware/Oracle_Home/oracle_Oracle/Middleware/Oracle/Middleware/Oracle/ ets/domains/base_domain/config/fmwconfig/jps-config-jse.xml -Dcommon.com ware/Oracle_Home/oracle_common -Dopss.version=12.2.1.3 -Dweblogic.RootDir racle_Home/User_projects/domains/base_domain -Djava.system.class.toader=c assLoader - Djava.security.policy=/home/oracle/Oracle/Middleware/Oracle_Home/use fo> <loading_domains_file: home="" middleware="" oracle="" oracle_home="" use<br="">ger/nodemanager.javaHome=/home/oracle/Oracle/Middleware/Oracle_Home/use ger/nodemanager.domains&gt; FO&gt; <loading_domains_file: home="" middleware="" oracle="" oracle_home="" use<br="">ger/nodemanager.domains&gt; FO&gt; <loading_domains_file: home="" middleware="" or<="" oracle="" td=""></loading_domains_file:></loading_domains_file:></loading_domains_file:></loading_domains_file:></loading_domains_file:></loading_domains_file:></loading_domains_file:></loading_domains_file:></loading_domains_file:>
		orac
	E_ŚW/Java/jdk1.8.0_144/bin/java -server -Xms32m -Xmx200m -Djdk.tls.ephemeralDHKeySize=2048 -Dcoherenc	
	nome/oracle/Oracle/Middleware/Oracle_Home/ReportsToolsComponent -Dreports.product.home=/home/oracle/Or	
	eware/Oracle_Home/reports -Dreports.bridge.product.home=/home/oracle/Oracle/Middleware/Oracle_Home/Rep	
	/Middleware/Oracle Home/user projects/domains/base domain/config/fmwconfig/jps-config-jse.xml -Dcommor	
	s.home=/home/oracle/Oracle/Middleware/Oracle_Home/oracle_commonDopss.version=12.2.1.3Dweblogic.Roc	
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		)ra
	anager v12.2.1.3.0	
	uration settings:	

#### Starting the Admin Server, go to the DOMAIN HOME/bin directory and run ./startWebLogic.sh

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You know that the administrator server is running when you see the following output:

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Server state changed to RUNNING.

\_\_\_\_\_

\_\_\_\_\_

4-3. Verifying the Installed Products and Product Versions. Check the products and product version numbers by running the **opatch Isinventory -detail** command from the **ORACLE\_HOME/OPatch** directory.

Confirmed that OPatch succeeded.

4-4. Checking Oracle Forms and Reports Product URLs.

1). Access to Enterprise Manager Console.

#### Login Page:

Sign in - Oracle Enterprise Manager - Mozilla Firefox			-	• ×
Sign in - Oracle Enterpris × +				
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SIGN IN TO <b>ORACLE ENTERPRISE MANAGER</b> FUSION MIDDLEWARE CONTROL 12c				
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#### Home Page:

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#### Starting WLS\_FORMS

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# Oracle Fusion Middleware 12c on SLES 12 SP3

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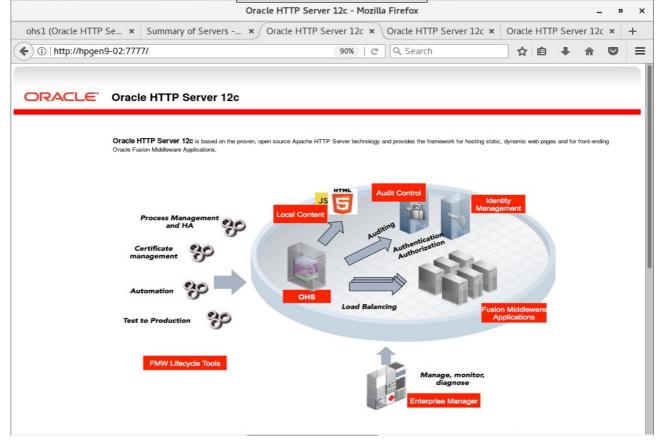
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### Oracle Fusion Middleware 12c on SLES 12 SP3

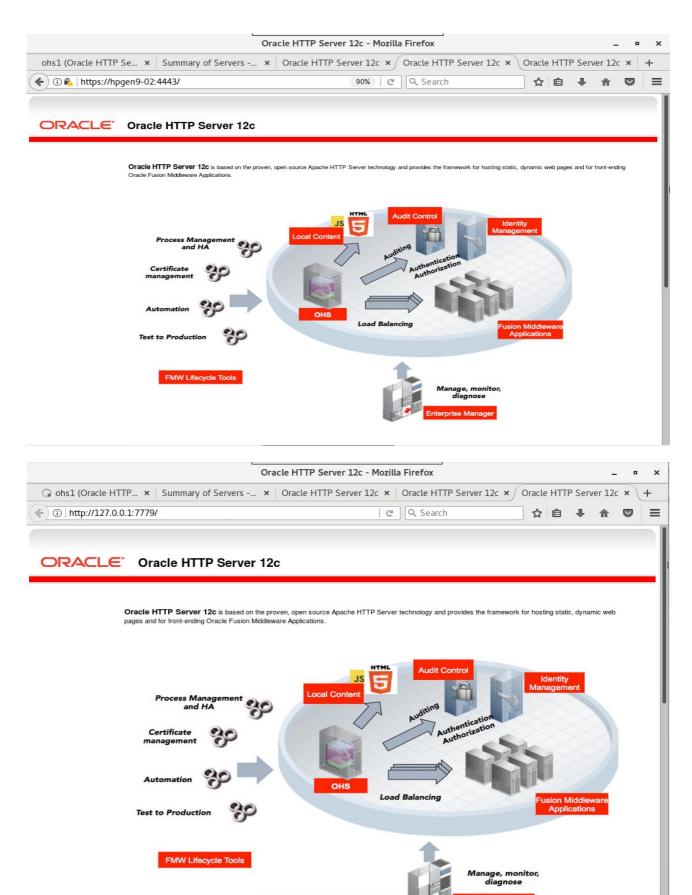
#### Starting ohs1

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# Verified ohs1 URLs can be accessed.



# Oracle Fusion Middleware 12c on SLES 12 SP3



Log in to work with the WebLogic Server domain

weblogic

.....

Username:

Password:

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☆自↓ 俞 ♡ ☰

Login

### 2). Access to Administration Server Console

Login Page as shown below:	Administration Console - Mozilla Firefox	
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ORACLE WebLogic Server Administration Col	nsole 12c	
9		
		Welcome

WebLogic Server Version: 12.2.1.3.0 Copyright (c) 1996.2017, Oracle and/or its affiliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other

#### Home Page - base\_domain - WLS Console - Mozilla Firefox \_ • × base\_domain (Oracle We... × / Home Page - base\_doma... × + ← ① P | http://hpgen9-02:7001/console/console.portal?\_nfpb=true8 🛙 🕬 | C 🛛 🔍 Search ☆ 自 ♣ Ѧ ♡ Ξ 0 ORACLE WebLogic Server Administration Console 12c 🟦 Home Log Out Preferences 🔤 Record Help Welcome, weblogic Connected to: base\_domain Q Change Center Home View changes and restarts Home Page Click the Lock & Edit button to modify, add or delete items in this domain. - Information and Resources -Lock & Edit Helpful Tools General Information Release Configuration Configure applications Common Administration Task Descriptions Configure GridLink for RAC Data Source Bead the documentation Domain Structure Ask a question on My Oracle Support Configure a Dynamic Cluster base\_domain Domain Partitions -Environment Deployments Recent Task Status Set your console preferences Oracle Enterprise Manager -Services --- Security Realms - Domain Configurations - Interoperability Diagnostics Domain Resource Group Templates Interoperability Domain Resource Group Templates WTC Servers Jolt Connection Pools Domain Partitions Resource Groups Diagnostics Domain Partitions Resource Groups Partition Work Managers Log Files Ξ How do I... Deployed Resources Diagnostic Modules Search the configuration Built-in Diagnostic Modules Environment Deployments Use the Change Center Diagnostic Images Servers Record WLST scripts Request Performance Clusters Services Change Console preferences Server Templates Migratable Targets Archives Messaging JMS Servers Manage Console extensions Context Monitor servers • SNMP Coherence Clusters Store-and-Forward Agents Interceptors JMS Modules Machines System Status Virtual Hosts Path Services Health of Running Servers as of 4:59 PM Charts and Graphs Virtual Targets Bridges Work Managers Monitoring Dashboard Failed (0) Data Sources Concurrent Templates

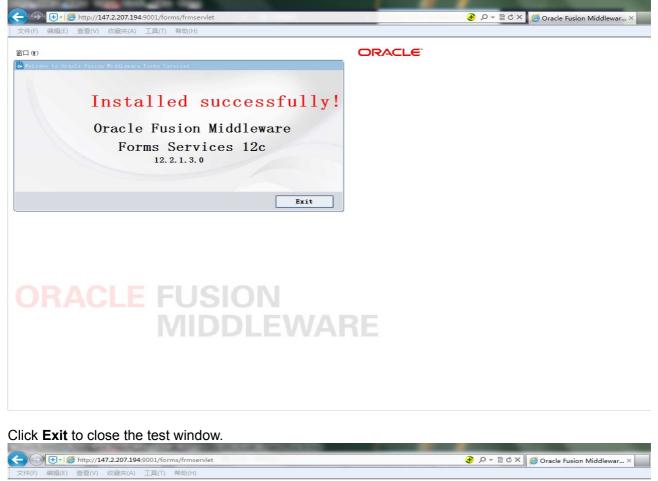
#### Viewing the summary of servers:

		Summary of Ser	vers - base_dor	nain - WLS Co	nsole - Mozilla Firefo	OX		-	- •	3
base_domain (Oracle We ×	Sum	nmary of Servers - ba	× +							
(i)   http://hpgen9-02:7001/	consol	le/console.portal?_nf	pb=true&_p [	90% C	Q Search	r r	۲ Ê			=
ORACLE WebLogic Server Ad	ministr	ation Console 12c								õ
Change Center	]	Home Log Out Preferences	Record Help		Q	Welcon	ne, weblogic	Connected to	base_de	omai
View changes and restarts	н	ome >Summary of Servers								
Click the Lock & Edit button to modify, add or	Sur	mmary of Servers								
delete items in this domain.	C	onfiguration Control								
Lock & Edit										
Release Configuration		A server is an instance of WebLo	ogic Server that runs in it	s own Java Virtual Mac	hine (JVM) and has its own con	nfiguration				
		This page summarizes each serv								
Domain Structure		rnis page summanzes each serv	er that has been conligu	ed in the current webb	ogic Server domain.					
ase_domain Domain Partitions	5	5								
B-Environment										_
Deployments 3Services		Customize this table								
-Security Realms		Servers (Filtered - More Colun	nns Exist)							
- Interoperability		Click the Lock & Edit button in	the Change Center to ac	tivate all the buttons on	this page.					
Diagnostics										
		New Clone Delete					Showing 1 to	3 of 3 Previo	us   Next	t
		Name 💫	Туре	Cluster	Machine	State	Health	Listen Po	rt	
	1	AdminServer(admin)	Configured		AdminServerMachine	RUNNING	🖋 ок	7001		
fow do I 🗉		WLS_FORMS	Configured	cluster_forms	AdminServerMachine	RUNNING	🖋 ок	9001		
Create Managed Servers		WLS_REPORTS	Configured	cluster_reports	AdminServerMachine	RUNNING	🖋 ок	9002		1
Clone servers		New Clone Delete	1		1		Showing 1 to	3 of 3 Previo	us I Next	+
Delete Managed Servers										
Delete the Administration Server										
<ul> <li>Start and stop servers</li> <li>View objects in the JNDI tree</li> </ul>										_
	1									
	1									
system Status										
System Status  Health of Running Servers as of 4:59 PM										

#### Home Page:

## 3). Access to Oracle Forms Services.

#### URL: http://host:port/forms/frmservlet



# 4). Access to Oracle Reports Services.

Oracle Reports	Services - Servlet - M	lozilla Firefox				-	•
base_domain (Oracle We × Summary of Servers - ba ×	Oracle Reports Service	s × +					
①   http://hpgen9-02:9002/reports/rwservlet	90% C	Search	☆	Ê	+	î (	
DRACLE"							
Reports							? He
Pracle Reports Services - Servlet Command Help							
RL for invoking rwservlet command request : http://yourwebserver/yourservletpa							
here args are arguments for constructing a Reports Server run request, and opt	ional command is a keywor	d, modifying request in some	way (see list t	elow)			
or more information about how to setup and use Reports Serviet rwserviet, r	efer to the product docum	entation.					
Valid Reports Servlet Commands							
In following commands, the name of the Reports Server ( <i>server=name</i> ) can be configuration file.	omitted rwservlet will try to	use the default Reports Serv	ver specified in	the se	rvlet		
• help							
showjobs							
• shownap							
showmyjobs							
showjobid							
killjobid							
• parsequery							
parsequery     showauth							
<ul> <li><u>parsequery</u></li> <li><u>showauth</u></li> <li><u>delauth</u></li> </ul>							
parsequery     showauth							
<ul> <li><u>parsequery</u></li> <li><u>showauth</u></li> <li><u>delauth</u></li> <li><u>getjobid</u></li> </ul>							
<ul> <li>parsequery</li> <li>showauth</li> <li>delauth</li> <li>getjobid</li> <li>getserverinfo</li> </ul>							

End of Oracle Forms and Reports.

view of the terms of terms

# 1. Installing Oracle WebTier 12cR2 OHS

1-1. Prerequisites:

Installation of Oracle WebTier Http Server requires:

- 1). Oracle Database 12cR2 (12.2.0.1.0) installed.
- 2). Oracle JDK 1.8.0\_131 and later installed.
- 3). Oracle WebLogic Server 12cR2 (12.2.1.3.0) (Fusion Middleware Infrastructure Installer)

1-2. Log in to the target system (SLES 12 64-bit OS) as a non-admin user. Download the Oracle WebTier 12cR2 OHS (12.2.1.3.0) from

http://www.oracle.com/technetwork/indexes/downloads/index.html#middleware.

(**Note:** Please ensure the installation user has the proper permissions to install and configure the software.)

1-3. Go to the directory where you downloaded the installation program. Extract the contents of this .zip (fmw\_12.2.1.3.0\_ohs\_linux64\_Disk1\_1of1.zip) file and launch the installation program by running 'fmw\_12.2.1.3.0\_ohs\_linux64.bin'

# For the actual installation, follow the steps below:

1). Welcome page.

	Oracle HTTP Server Inst	allation - Step 1 of	9			-	×
Welcome					E (		
Welcome     Auto Updates     Installation Location     Installation Type     JDK Selection     Prerequisite Checks     Installation Summary     Installation Progress     Installation Complete	Welcome to Oracle Fusion Middlewa Use this installer to create a new Ora Middleware Web Tier software, inclus For more information, see <u>Install, Par</u> Context-sensitive online help is availa	acle Home or extend an ex ding Oracle HTTP Server. Ich, and Upgrade in the Or able from the <u>H</u> elp button	xisting Oracl	e home with the			
Help			< <u>B</u> ack	Next >	Finish	Cano	el

This page welcomes you to the installation. Click **Next** to continue.

# 2). The Auto Updates page appears.

	Oracle HTTP Server Instal	llation - Step 2 of 9	_ ×
Auto Updates			
Welcome         Auto Updates         Installation Location         Installation Type         JDK Selection         Prerequisite Checks         Installation Summary         Installation Complete	Skip <u>A</u> uto Updates   Select patches from <u>directory</u> <u>Location:</u> Search <u>My</u> Oracle Support for Updates <u>Username:</u> Password:   Proxy Settings <u>Search</u>		Browse         Image:
Help		< <u>B</u> ack <u>N</u> ext >	Einish Cancel

This page enables you to choose to automatically receive software updates for your components from Oracle Corporation. make your choices, then click **Next** to continue.

# 3). The **Installation Location** page appears.

stallation Location		
Welcome	Oracle Home:	
Auto Updates	/home/oracle/Oracle/Middleware/Oracle_Home	Browse
Installation Location	Feature Sets Installed At Selected Oracle Home: View	,
Installation Type		Г
JDK Selection	Oracle Fusion Middleware 12c Infrastructure 12.2.1.3.0      Core Server	r
Prerequisite Checks	Core Application Server 12.2.1.3.0 Coherence Product Files 12.2.1.3.0	
Installation Summary	Web 2.0 HTTP Pub-Sub Server 12.2.1.3.0	
Installation Progress	WebLogic SCA 12.2.1.3.0	
-	WebLogic Client Jars 12.2.1.3.0	
Installation Complete	Administrative Tools	
	Administration Console Additional Language Help Files 12.2.1.3.0	
	CIE WLS Config 12.2.1.3.0	
	Enterprise manager 12.2.1.3.0	
	Database Support	
	Third party JDBC Drivers 12.2.1.3.0	
	WebLogic Evaluation Database 12.2.1.3.0	
	Open Source Components	
	Fusion Middleware Maven Support 12.2.1.3.0	
	□ JRF and Enterprise Manager	
	WLS for FMW 12.2.1.3.0	
	Oracle Automatic Diagnostic Repository Feature Set Group	
	FMW Platform Generic 12.2.1.3.0	
	installation.	
	This page only shows Feature Sets installed at the selected Oracle Home. It does not show Feature Sets installed anywhere else.	

Specify the Oracle home location into which you want to install the product(s). Click **Next** to continue.

# 4). The **Installation Type** page appears.

	Oracle HTTP Server Installation - Step 4 of 9		_ ×
Installation Type			
<ul> <li>Welcome</li> <li>Auto Updates</li> <li>Installation Location</li> <li>Installation Type</li> <li>JDK Selection</li> <li>Prerequisite Checks</li> <li>Installation Summary</li> <li>Installation Progress</li> <li>Installation Complete</li> </ul>	<ul> <li>Standalone HTTP Server (Managed independently of WebLogic server)</li> <li>Gollocated HTTP Server (Managed through WebLogic server)</li> <li>Oracle HTTP Server 12.2.1.3.0</li> <li>Oracle HTTP Server 12.2.1.3.0</li> <li>Java Runtime Environment Oracle JRE 12.2.1.3.0</li> <li>Oracle Common Configuration Infrastructure CIE CAM Shared Config 12.2.1.3.0 Enterprise manager Plugin for OHS 12.2.1.3.0</li> <li>Infrastructure Database Client 12.1.0.2.0 OAM WebGate For Oracle HTTP Server 12.2.1.3.0 OPatch 13.9.2.0.0 LDAP 12.2.1.3.0</li> </ul>		
Help	< <u>B</u> ack	<u>N</u> ext > Ein	iish Cancel

Selected **Collocated HTTP Server (Managed through WebLogic server)** to configure Oracle HTTP Server in a WebLogic Server Domain.(Alternative, select **Standalone HTTP Server (Managed independently of WebLogic server)** in the Installation Type screen to configure Oracle HTTP Server in a Standalone Domain.) Click **Next** to continue.

1

# 5). The **JDK Selection** page appears.

	Oracle HTTP Server Installation	on - Step 5 of 9	_ ×
JDK Selection			
<u>Welcome</u>	, JDK Home:		
Auto Updates	/home/oracle/ORACLE_SW/Java/jdk1.8.0_144		▼ Browse
Installation Location			
Installation Type			
JDK Selection			
Prerequisite Checks			
Installation Summary			
Installation Progress			
Unstallation Complete			
	The selected JDK /home/oracle/ORACLE_SW/J	ava/jdk1.8.0_144 will be used for this installation	1
Help		< Back Next > E	nish Cancel
		- East - Hert -	Gandal

The selected JDK will be used for this installation.Click **Next** to continue.

	Oracle HTTP Server Installation - Step 6 of 9	- ×
Prerequisite Checks		
<u>Welcome</u>	1	
Auto Updates	100%	
Installation Location	Checking operating system certification	
Installation Type	Checking recommended operating system packages	
UDK Selection	Checking kernel parameters	
Prerequisite Checks	Checking physical memory	
Installation Summary	Checking Java version used to launch the installer	
Installation Progress		
<ul> <li>Installation Complete</li> </ul>		
	Stop Rerun Skip View Successful Tasks	
	Stop     Rerun     Skip     ✓     View Successful Tasks	View Log
	Checking recommended operating system packages	
	🗄 🖤 🖋 Checking kernel parameters	
	Othecking physical memory     Othecking Java version used to launch the installer	
Help	< <u>Back</u> <u>N</u> ext > <u>Finis</u>	h Cancel

# 6). The **Prerequisites Checks** page appears.

This pages shows you the progress of the system checking the prerequisites on your system prior to installation. If you are lacking any prerequisites, a message will appear telling you so. You do not need to take any actions on this page, though you can view the log from here. Click **Next** to continue.

Oracle HTTP Server Installation - Step 7 of 9 × ORACLE Installation Summary FUSION MIDDLEWARE Welcome Install Oracle HTTP Server (OHS) Installation Location Auto Updates Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle\_Home Installation Location Log File Location: /tmp/Oralnstall2017-10-11\_10-36-33AM/install2017-10-11\_10-36-33AM.log Installation Type Disk Space Required: 1757 MB JDK Selection Available: 431218 MB Prerequisite Checks E Feature Sets to Install Installation Summary Oracle JRE 12.2.1.3.0 Installation Progress Oracle HTTP Server 12.2.1.3.0 CIE CAM Shared Config 12.2.1.3.0 Installation Complete Enterprise manager Plugin for OHS 12.2.1.3.0 Database Client 12.1.0.2.0 OAM WebGate For Oracle HTTP Server 12.2.1.3.0 LDAP 12.2.1.3.0 Save Response File 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. -Help < Back Install Cancel Next >

#### 7). The Installation Summary page appears.

This page shows you what components and features are about to be installed. If you need to make changes, click **Back**, otherwise, click **Install** to start the installation.

	Oracle HTTP Server Installation - Step 8 of 9	_ ×
Installation Progress		
V Welcome	100%	
<ul> <li>Installation Type</li> <li>JDK Selection</li> <li>Prerequisite Checks</li> <li>Installation Summary</li> </ul>	<ul> <li>Prepare</li> <li>Copy</li> <li>Generating Libraries</li> <li>Performing String Substitutions</li> <li>Linking</li> </ul>	
Installation Progress Installation Complete	Image         Image	
	View Messages View Successful Tasks Hardware and So Engineered to Work	
Help	< <u>Back</u> Next > Eir	nish Cancel

#### 8). The Installation Progress page appears.

This page shows you the progress of the installation, and will warn you if there are any problems. You can view messages and logs from this page, but typically no action is required here. When progress is complete, click **Next** (go to a Summary page). Alternatively, you can click **Finish**.

9). If you clicked **Next**, the **Installation Complete** page appears, showing you the components that have been installed.

Installation Complete	
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         <ul> <li>Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home</li> <li>Log File Location: /tmp/Oralnstall2017-10-11_10-36-33AM/install2017-10-11_10-36-33AM.log</li> </ul> </li> <li>Feature sets Installed Successfully         <ul> <li>Oracle JRE 12.2.1.3.0</li> <li>Oracle HTTP Server 12.2.1.3.0</li> <li>CIE CAM Shared Config 12.2.1.3.0</li> <li>Enterprise manager Plugin for OHS 12.2.1.3.0</li> <li>Database Client 12.1.0.2.0</li> <li>OAM WebGate For Oracle HTTP Server 12.2.1.3.0</li> <li>LDAP 12.2.1.3.0</li> </ul> </li> <li>Pre-Existing Feature Sets         <ul> <li>OPatch 13.9.2.0.0</li> </ul> </li> </ul>
	Next Steps:         1. Create a domain using the Configuration Wizard.         2. Start Node Manager and Domain Servers.         See the product installation guide for detailed instructions.
	· ·

Click Finish to dismiss the installer.

# 2. Creating Oracle Database Schema through Repository Creation Utility(RCU)

2-1. Repository Creation Utility (RCU) is available with the Oracle WebLogic Server 12cR2 Fusion Middleware Infrastructure distribution. Run **\$FMW\_HOME/oracle\_common/bin/rcu** and create required database schemas for Oracle WebTier Http Server.

	y		
Welcome Create Repository	<ul> <li>Specify a unique prefix for all sch schemas later.</li> </ul>	nemas created in this session, s	o you can easily locate, reference, and manage th
Database Connection Details	O Select existing prefix:		
Select Components			
Schema Passwords	Oreate new prefix:	SUSEDEMO	
		Alpha numeric only. Canno	t start with a number. No special characters.
Map Tablespaces			
Summary	Component		Schema Owner
Completion Summary	□		
		astructure Services *	SUSEDEMO_STB
		m Security Services	SUSEDEMO_OPSS
	User Messagin		SUSEDEMO_UMS
	Audit Services		SUSEDEMO JAU
	Audit Services	Append	SUSEDEMO_IAU_APPEND
	Audit Services	Viewer	SUSEDEMO_IAU_VIEWER
	Metadata Serv	vices	SUSEDEMO_MDS
	Weblogic Servi	ices *	SUSEDEMO_WLS

Select the **Create new prefix** radio button and provide a schema prefix (such as SUSEDEMO). Select the components as shown above, and ensure the schema creation is successful.

# 3. Configuring Oracle WebTier 12cR2 OHS using the Config Wizard

3-1. In order to complete the configuration. Run the config wizard using **config.sh** located in the **ORACLE\_HOME/oracle\_common/common/bin** directory.

#### Follow these steps:

1). Choose **Create a new domain**, and enter the desired domain home path.

Fusion Middleware Configuration Wizard - Page 1 of 8						-	×			
Configuration Type								R		
Reate Domain										
Templates										
Administrator Account										
Domain Mode and JDK										
Advanced Configuration										
Configuration Summary										
Configuration Progress	What do you want	to do?								
End Of Configuration	<u>Create a new d</u>	lomain								
	O Update an exis	ting domain								
	Domain Location:	vacle/Oracl	e/Middleware	:/Oracle_Hom	e/user_projec	:ts/domains/b	ase_dom	ain	Brows	e
	Create a new doma	in.								
Help					< <u>B</u> ack	<u>N</u> ext >	<u> </u>	h	Cance	el

Click Next to continue.

2).	The	Template	es screen	appears.
-----	-----	----------	-----------	----------

	Fusion Middleware Configuration Wizard - Page 2 of 12 _	×
Templates		
Create Domain         Templates         Application Location         Administrator Account         Domain Mode and JDK         Database Configuration Type         Component Datasources         JDBC Test         Advanced Configuration         Configuration Progress         End Of Configuration	Create Domain Using Product Templates:   Filter Templates: Type here   Include all gelected templates Include all previously applied templates   Available Templates   Basic WebLogic Server Domain - 12.2.1.3.0 [wlserver] *   Oracle Enterprise Manager - 12.2.1.3.0 [ml]   Oracle Enterprise Manager-Restricted JRF - 12.2.1.3.0 [em]   Oracle HTTP Server (Collocated) - 12.2.1.3.0 [ohs]   Oracle User Messaging Service Basic - 12.2.1.3.0 [ohs]   Oracle JRF SOAP/JMS Web Services - 12.2.1.3.0 [oracle_common]   Oracle RAS Session Service - 12.2.1.3 [oracle_common]   Oracle JRF SOAP/JMS Web Services - 12.2.1.3 [oracle_common]   Oracle JRF Session Service - 12.2.1.3 [oracle_common]   Oracle JRF - 12.2.1.3.0 [oracle_common]	
Help	< <u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel	

Keep the default selection (Create Domain using Product Templates), and select Oracle HTTP Server (Collocated) – 12.2.1.3.0 [ohs] component. This automatically selects Oracle Enterprise Manager – 12.2.1.3.0 [em] and so on. Click Next to continue.

	Fusion Middlewa	are Configuration Wizard -	Page 3 of 1	.2		-	×
Application Location							
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain name: Domain location: Application location:	base_domain /home/oracle/Oracle/Middleware/ Oracle/Middleware/Oracle_Home,				Bīows	Je
Help			< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cano	el

3). The Application Location screen appears.

Keep the default value for Application location.Click Next to continue.

	Fusion Middlev	vare Configuration Wizard - Page 4 of 12 _ ×
Administrator Account		
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Name Password Confirm Password Must be the same as number or special ch	weblogic
Help		< <u>Back</u> <u>Next</u> <u>Finish</u> Cancel

# 4). The Administrator Account screen appears.

Enter the WebLogic Domain administration username and password. This information will be needed to access WebLogic Server Control and Fusion Middleware Control. Click **Next** to continue.

Fusion Middleware Configuration Wizard - Page 5 of 12					
Domain Mode and JDK					
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain Mode         Development         Utilize boot.properties for username and password         Production         Require the entry of a username and password         JDK         Oracle HotSpot 1.8.0_144 /home/oracle/ORACL         Other JDK Location:	l, and do not poll for applications to deploy.	Brow	se	
Help		< <u>Back Next &gt;</u> Finish	Cano	el :	

# 5). The Domain Mode and JDK screen appears.

Select the Domain Mode (either **Development** or **Production**). For our purposes, select **Production**. Leave the default JDK selection as it appears, unless using another version of the JDK desired.

(**Note**: Your installation can only be secured with Identity Management if you are configuring your components in deployment mode.)

# 6). The Database Configuration Type screen appears.

	Fusion Middleware Configuration Wizard - Page 6	of 12	_ ×
Database Configuration Type			
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Connection Parameters Connection URL String Host Name: hpgen9-02 DBMS/Service: suse Port: 1521		natically configure
Help	< <u>B</u> ac	ck <u>N</u> ext > <u>F</u> inis	h Cancel

Enter the RCU DB connection information, then click **Get RCU Configuration**. You should receive a success message. Click **Next** to continue.

		sion Middleware Co	nfigurati	on Wizard ·	- Page	7 of 12	_ ×
JDBC Component Schema							
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration	Ho Ho DB	Idor: Connection Parameters St Name: St	component	Driver:	ssword:	ti data source O Don't con	vert
<u>Configuration Summary</u> Configuration Progress	Edi	ts to the data above will af				elow. Schema Owner	Schema Password
C End Of Configuration		Component Schema	DBMS/S SUSE	Host Name hpgen9-02	Port 1521	SUSEDEMO_STB	Schema Password
	H	WLS Schema	SUSE	hpgen9-02	1521	SUSEDEMO_WLS_RUNTIME	
	H	OPSS Audit Schema	SUSE	hpgen9-02	1521	SUSEDEMO_IAU_APPEND	
	后	OPSS Audit Viewer Sche		hpgen9-02	1521	SUSEDEMO_IAU_VIEWER	
		OPSS Schema	SUSE	hpgen9-02	1521	SUSEDEMO_OPSS	
Help	• •					Back Next > Fini	sh Cancel

# 7). The JDBC Component Schema screen appears.

Our instructions assume each Repository schema uses the same password. If not, enter the correct schema passwords. Click **Next** to continue.

		Fu	sion M	iddleware Configuration Wizard - F	Page 8 of 3	12		-	×
J	DBC Component Schema Tes	it							
平	Create Domain		Status	Component Schema		JDBC (	Connecti	ion URL	
人	Templates		1	LocalSvcTbl Schema	jdbo	c:oracle:thin:@//	hpgen9-	02:1521/SUSE	
	Application Location		1	WLS Schema	jdbo	c:oracle:thin:@//	/hpgen9-	-02:1521/SUSE	
1	Administrator Account		1	OPSS Audit Schema	jdbo	c:oracle:thin:@//	hpgen9-	02:1521/SUSE	
T	and a second		1	OPSS Audit Viewer Schema	jdbo	c:oracle:thin:@//	hpgen9-	02:1521/SUSE	:
Ť	Domain Mode and JDK		1	OPSS Schema	jdbo	c:oracle:thin:@//	hpgen9-	02:1521/SUSE	
Ŷ	Database Configuration Type								
Ý	Component Datasources								
0	JDBC Test								
A	Advanced Configuration								
Y	Configuration Summary		<u>T</u> est Se	lected Connections					
4	Configuration Progress	Cor	nection	Result Log					
-0	End Of Configuration	Drive URL Use Pas SQL	er=oracl =jdbc:or r=SUSE[ sword=* Test=S	Schema=LocalSvcTbl Schema e.jdbc.OracleDriver acle:thin:@//hpgen9-02:1521/SUSE DEMO_STB ******* ELECT 1 FROM DUAL					
		CFG	FWK-64	213: Test Successful!			_		
									100
	<u>H</u> elp				< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inis	h Canc	el

# 8). The JDBC Component Schema Test screen appears.

The tests are run and the results given. Ensure all test results are successful.Click **Next** to continue.

	Fusion Middleware Configuration Wizard - Page 9 of 12	_ ×
Advanced Configuration		
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Progress End Of Configuration	<ul> <li>Administration Server Modify Settings</li> <li>Node Manager Configure Node Manager</li> <li>Iopology Add, Delete or Modify Settings for Managed Servers, Clusters, Virtual Targets and Coherence</li> <li>System Components Configure and Target System Components</li> <li>Dgmain Frontend Host Capture Configure Domain Frontend Host</li> <li>Deployments and Services Target to Servers or Clusters</li> </ul>	
Help	< Back Next > Finish	Cancel

9). The Advanced Configuration screen appears.

Choose the services on your requirements, then click **Next** to continue.

	Fusion Middleware	Configuration Wizard - F	Page 10 of 14	_ ×
System Components				
Templates	· Add X Dele	ete		🗐 Dis <u>c</u> ard Changes
Application Location	System Component	Component Type	Restart Interval Seconds	Restart Delay Seconds
Administrator Account	ohs_1	OHS 🔻	3600	(
Domain Mode and JDK				
Database Configuration Type				
<u>Component Datasources</u>				
UDBC Test				
Advanced Configuration				
System Components				
Machines				
Configuration Summary				
Configuration Progress				
End Of Configuration				
Help			< <u>Back N</u> ext >	Einish Cancel

10). The System Components screen appears.

Click **Add** to create a new Oracle HTTP Server instance. Specify '*ohs\_1*' in the **System Component** field, and specify '*OHS*' in the **Component Type** field. Click **Next** to continue.

	Fusion Middlewa	are Configuration Wizard - F	Page 11 of 15	_ ×
OHS Server				
Create Domain     Templates     Application Location	System Component	ohs_1		•
Administrator Account	Admin Host	127.0.0.1		
Domain Mode and JDK     Database Configuration Type	Admin Port	7779		
<u>Component Datasources</u> JDBC Test	Listen Address	hpgen9-02		
Advanced Configuration System Components	SSL Listen Port	4443		
OHS Server	Server Name	http://hpgen9-02:7777		
Machines Configuration Summary Configuration Progress End Of Configuration				
Help			< Back Next > Finis	ah Cancel

### 11). The **OHS Server** screen appears.

Use the **OHS Server** screen to configure the Oracle HTTP Server servers in your domain. In the System Component field specify the IP address of the host on which the Oracle HTTP Server instance will reside. Do not use "localhost". Click **Next** to continue.

	Fusion Middleware Config	uration Wizard - Page 12 of 16	_ ×
Machines			
Create Domain Templates Application Location Administrator Account	Machine Unix Machine	Node Manager Listen Address	Discard Changes
<ul> <li><u>Domain Mode and JDK</u></li> <li><u>Database Configuration Type</u></li> <li><u>Component Datasources</u></li> <li><u>JDBC Test</u></li> <li><u>Advanced Configuration</u></li> <li><u>System Components</u></li> <li><u>OHS Server</u></li> <li><u>Machines</u></li> <li><u>Assign System Components</u></li> <li><u>Configuration Summary</u></li> <li>Configuration Progress</li> <li>End Of Configuration</li> </ul>	SUSE_Machine_1	147.2.207.117	5556
Help		< <u>B</u> ack <u>N</u> ex	t > <u>Finish</u> Cancel

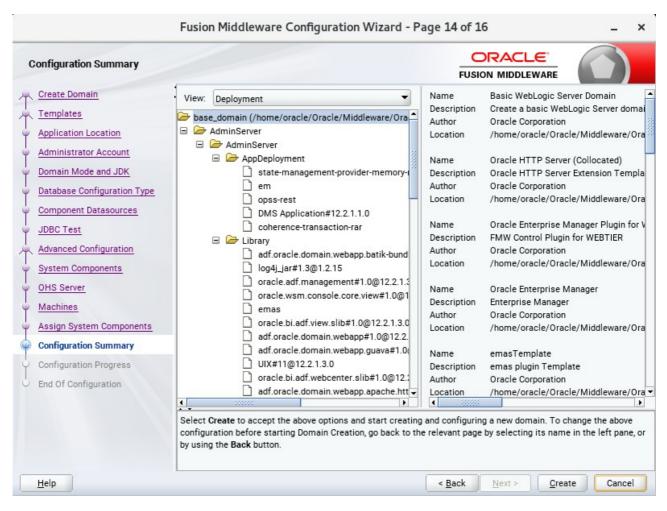
# 12). The **Machines** screen appears.

You can use this screen to override the machine name or add addition Machine names for extend domain. Click **Next** to continue.

	Fusion Middleware Configuration Wizard	- Pag	ge 13 of :	16			-	×
Assign System Components to	Machines					R		
Create Domain			Machines					
Templates			Nachin					
Application Location				SE_Machine_ SystemCom				
Administrator Account				🌍 ohs_1				
Domain Mode and JDK								
<ul> <li>Database Configuration Type</li> </ul>								
Component Datasources		8						
U JDBC Test		-						
Advanced Configuration								
System Components								
OHS Server		8						
Machines Machines								
Assign System Components								
Configuration Summary								
Configuration Progress								
C End Of Configuration								
	Select one or more system components in the left pane a button (>) to assign the system component or component				ane. Then	use the	right a	rrow
	button (2) to assign the system component of component	1113 10	are mouning					
Help			< <u>B</u> ack	<u>N</u> ext >	Einis	h (	Cance	el

13). The Assign System Components screen appears.

Select the 'ohs\_1' in the System Component list box and click the right arrow. Click **Next** to continue.



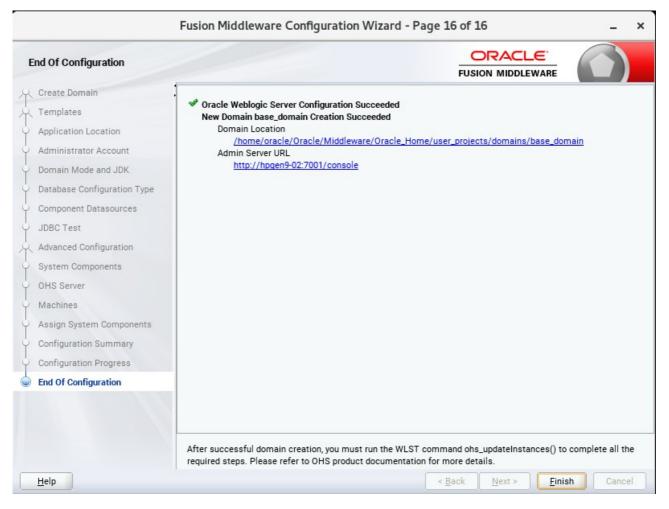
#### 14). The Configuration Summary screen appears.

Select Create to accept the above options and start creating and configuring a new domain.

	Fus	ion Middleware C	onfiguration	Wizard - Pa	ge 15 of 1	.6		_ ×
Configuration Progress	_							
R Create Domain				4000				
A Templates				100%				
Application Location	1	Copy Unprocessed Art	ifacts					
Administrator Account	1	OPSS Processing						
Domain Mode and JDK	4	Security Processing Artifacts Generation						
Database Configuration Type	1	String Substitution						
Component Datasources	1	Post Processing						
JDBC Test								
Advanced Configuration								
Y System Components								
OHS Server								
Machines								
Assign System Components								
↓ ♀ Configuration Summary								
Configuration Progress								
<ul> <li>End Of Configuration</li> </ul>								
Help					< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

# 15). The **Configuration Progress** screen appears.

Wait for this part of the configuration to complete. Depending on the location and performance of the Repository database, this process may take a few minutes. Click **Next** to continue.



#### 16). The End of Configuration screen appears.

Once you see: "Oracle Weblogic Server Configuration Succeeded", record the '**Domain Location**' and '**Admin Server URL'**, then click **Finish** to dismiss the Configuration Wizard.

# 4. Verifying Oracle WebTier 12cR2 OHS Installation and Configuration

4-1. Check for the presence of installation log files in logs directory inside your Oracle Inventory directory. Also, check the domain server logs, which are located in the servers directory inside the domain home directory.

4-2. Starting the Node Manager and the Admin Server.

# Starting the Node Manager, go to the DOMAIN\_HOME/bin directory and run 'nohup ./startNodeManager.sh > nm.out&'

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		9-02:/home/orac sh > nm.out&	le/Oracle	e/Middleware/Oracle_Home/user_projects/domains/base_domain/bin>_no	hu <mark>p ./</mark> st	art
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rac	le@hpgen	9-02:/home/orac	le/Oracle	e/Middleware/Oracle Home/user projects/domains/base domain/bin> mo	re nm.ou	ıt
	MGR_HOME	is already set	to /home	e/oracle/Oracle/Middleware/Oracle_Home/user_projects/domains/base_	domain/n	ode
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rty	/ant-con	trib-1.0b3.jar:	/home/ora	oracle/Oracle/Middleware/Oracle_Home/wlserver//oracle_common/mod acle/Oracle/Middleware/Oracle_Home/wlserver/modules/features/oracl	e.wls.co	ommo
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Starting the Admin Server, go to the DOMAIN\_HOME/bin directory and run ./startWebLogic.sh.

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You know that the administrator server is running when you see the following output:

Server state changed to RUNNING.

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4-3. Run the WLST command ohs\_updateInstances() to complete all the required steps.

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4-4. Checking Oracle WebTier Product URLs.

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1). Access to Enterprise Manager Console.

### Login Page:

Sign in - Oracle Enterprise Manager - Mozilla Firefox			-	•	×
Sign in - Oracle Enterpris × +					
( ) 🔏   http://hpgen9-02:7001/em/faces/targetauth/emasLogin?target= 🧐 🔍   C ] 🔍 Search	☆ 自	+	⋒		≡
SIGN IN TO <b>ORACLE ENTERPRISE MANAGER</b> FUSION MIDDLEWARE CONTROL 12c					
Domain_base_domain  * User Name weblogic  * Password Login to Partition Sign in					
	0	RA		€.	

### Oracle Fusion Middleware 12c on SLES 12 SP3

lome Page:								
, I	base_domain (Oracle WebLogic	Domain	) - Oracle Ent	erprise Manage	er - Mozilla Firefox		-	• ×
base_domain (Oracle We ×	\+							
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	anager Fusion Middleware Control 12c				🔚 WebLog	ic Domain 🔻	weblogic	<b>v</b>
base_domain ()					<b>1</b> •		uto Refresh	
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Clusters	Name AdminS Host hpgen9 Listen Port 7001 Servers							
0 +	View 🔻 🎽 Create 🗙 Delete	Contro	ol ▼ E¥					
Clusters	Name	Status	Cluster	Machine	State	Hea	alth	
	AdminServer(admin)	+			Running	ОК		
Deployments 1 ∪p								
Domain Partitions	Columns Hidd	en 34					Server	rs 1 of 1
~								

# Starting Oracle HTTP Server (ohs\_1)

		ohs_1 (Oracle HTTP Ser	ver) - Oracle Enterprise M	anager - Mozilla Firefox _ = ×
ohs_1 (Oracle HTTP Serv	×	+		
🗧 🛈 🎤   http://hpgen9-02:7	7001	/em/faces/as_ohs_ohsHome?t	ype=oracl 90% C	Q, Search
	Ma	nager Fusion Middleware Control 12c		👫 WebLogic Domain 🔻 🛛 weblogic 👻 🚥
+ ohs_1 0				° <u>a</u> ▼ 🖂 ▼
Cracle HTTP Server V		Start Up 📃 Shut Down 🔃 R	estart	Oct 11, 2017 11:43:22 AM GMT+08:00 📎
Monitoring		General		Response and Load
+	►	Component Name	ohs_1	
Metrics Unavailable		Version	12.2.1.3.0	
		State	Shutdown	
Virtual Hosts		Host	147.2.207.117	11:29 AM 11:32 11:35 11:38 11:41 October 11 2017
0 Virtual Hosts	Þ	Ports	hpgen9-02:7777 hpgen9-02:4443 127.0.0.1:7779	Request Processing Time (milli seconds)
Virtual Hosts		Machine Name	SUSE_Machine_1	Comain_base_domain/base_domain/ohs_1: Request Throu     Table View
		Auto Restart	×	
Modules		Oracle Home	/home/oracle/Oracle/Middleware /Oracle_Home	CPU and Memory Usage
O Modules	•	Key Statistics		
		Idle Processes	Unavailable	
		Busy Processes		
		Error Rate (%)	-1.00	1129 AM 1132 1135 1138 11:41 October 11 2017
		Connection Duration (seconds)	Unavailable	
		Request Processing Time	Unavailable	CPU Usage (%) Memory Usage (MB)

hs_1 (Oracle HTTP Serv	×	+		
) 🛈 🎤 🔏   http://hpgen9-0	)2:7(	001/em/faces/as_ohs_ohsHome	e?type=or 90% C	Q Search ☆ 自 🖡 🎓 🛡
	Ma	nager Fusion Middleware Control 12c		🔛 WebLogic Domain 🔻 🛛 weblogic 👻
1 ohs_1				<u>∩</u> ▼ E
oracle HTTP Server 🔻		Start Up 📄 Shut Down 🔃 Re	estart	Oct 11, 2017 11:44:37 AM GMT+08:00
Nonitoring 0.00		General		Response and Load
CPU Usage (%)	۲	Component Name	ohs_1	8
2.11 Memory Usage (%)		Version	12.2.1.3.0	4 0
		State	Running	
irtual Hosts		Host	147.2.207.117	11:31 AM 11:34 11:37 11:40 11:43 October 11 2017
2	Þ	Ports	hpgen9-02:7777 hpgen9-02:4443 127.0.0.1:7779	•
Virtual Hosts		Machine Name	SUSE_Machine_1	<ul> <li>Request Processing Time (milli seconds)</li> <li>/Domain_base_domain/base_domain/ohs_1: Request Throu</li> </ul>
		Auto Restart	×	Table View
lodules		Oracle Home	/home/oracle/Oracle/Middleware /Oracle_Home	CPU and Memory Usage
52 Modules	•	Key Statistics		0.8
Modules		Rey Statistics		0.4
		Idle Processes	3	0.02,000
		Busy Processes	0	1,000
		Error Rate (%)	0.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		Connection Duration (seconds)	0	• III •

### OHS Ports Configuration as shown below.

			Ports Confi	guration: ohs.	_1 (Oracle HTTP Server) - Oracle Enterprise Mana	iger - Mozilla Fi	refox			-	•	×	
Ports Conf	gura	tion: ohs_	× \ +										
<b>()</b> / / /	A thp://hpgen9-02:7001/em/faces/as/vs/componentEndpoints 90% C Search        CLE* Enterprise Manager Fusion Middleware Control 12c       orbs_1 •       oracle HTTP Server      Start Up Shut Down Restart       Configuration       ordigured for this system component are shown. Some ports configured of type Admin cannot be edited or deleted.       tation			☆	ê	+	⋒		≡				
ORAC	Le	Enterpr	ise Manager	Fusion Middleware	Control 12c	WebLogic Domain 🔻 weblogic 🔻							
- t of	s 1	0								2	•	2 -	
			🔹 🌔 Start	Up 📄 Shut Do		Oct	11, 2017	11:46:1	5 AM GN	IT+08:00	t		
Porte Co	ofic	uration										-	
	-		component are	shown. Some ports	configured of type Admin cannot be edited or deleted.								
🕦 Informati	Infiguration: ohs ×     Infiguration: ohs ×     Inttp://hpgen9-02:7001/em/faces/as/vs/componentEndpoints     Inttribution     Inttribution     Interver     Interver <td></td> <td></td> <td></td> <td></td> <th></th> <td></td> <td>×</td>								×				
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	figuration: ohs × +   figuration: ohs × + f http://hpgen9-02:7001/em/faces/as/vs/componentEndpoints 90% @ Search Clee*Enterprise Manager Fusion Middleware Control 12c ohs_1 • Oracle HTTP Server * Start Up Shut Down Restart Oracle HTTP Server * Start Up Shut Down Restart ofiguration igured for this system component are shown. Some ports configured of type Admin cannot be edited or deleted. tion to reate * Edit * Delete Port Port Type Host Name IP Address Protocol 7777 Listen hpgen9-02 147.2.207.117 HTTP 4443 Listen hpgen9-02 147.2.207.117 HTTPS												
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	_									_		-	

### ohs\_1 is up.

### 2). Access to Administration Server Console

Oracle WebLogic Server Adm	inistration Con	ole - Mozilla Firefox			-	. •	×
Ports Configuration: ohs × Oracle WebLogic Server × +							
( ) 🔏   http://hpgen9-02:7001/console/login/LoginForm.jsp	90% C	Q. Search	☆ 🖻	+	⋒		≡
	e 12 <i>c</i>	Log in to work with the We Username: Password:	Welcome bLogic Server weblogi •••••	:	Logi		
WebLogic Server Version: 12.2.1.3.0 Copyright (c) 1996,2017, Oracle and/or its affiliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective c	whers.						

### Login Page as shown below:

## Home Page:

	Home Page - base_dor	main - WLS Console - Mozilla Firefox	_ = ×							
Ports Configuration: ohs ×	Home Page - base_doma × +									
🗲 🛈 🎤   http://hpgen9-02:700	01/console/console.portal?_nfpb=true	8 🗊 90%   C 🔍 Search	☆ 🗎 🖡 🎓 🛡 ≡							
	Iministration Console 12c		Q							
Change Center	👔 Home Log Out Preferences 🔤 Record Help	p Q	Welcome, weblogic Connected to: base_domain							
View changes and restarts	Home									
Click the Lock & Edit button to modify, add or	Home Page									
delete items in this domain.	- Information and Resources									
Lock & Edit										
Release Configuration	Helpful Tools	General Information								
	Configure applications	Common Administration Task Descriptions								
Domain Structure	Configure GridLink for RAC Data Source     Configure a Dynamic Cluster	<ul> <li>Read the documentation</li> <li>Ask a question on My Oracle Support</li> </ul>								
base_domain	Recent Task Status	<ul> <li>Ask a question on my Gracle Support</li> </ul>								
Domain Partitions     Environment	Set your console preferences									
Deployments	Oracle Enterprise Manager									
E-Services										
Security Realms     Interoperability	Domain Configurations									
- Diagnostics	Domain	Resource Group Templates	Interoperability							
	Domain	Resource Group Templates	WTC Servers							
			Jolt Connection Pools							
	Domain Partitions	Resource Groups								
	Domain Partitions	Resource Groups	Diagnostics							
How do I	Partition Work Managers		Log Files							
How do I		Deployed Resources	Diagnostic Modules							
<ul> <li>Search the configuration</li> </ul>	Environment	Deployments	Built-in Diagnostic Modules							
Use the Change Center	Servers		Diagnostic Images							
<ul> <li>Record WLST scripts</li> </ul>	Clusters	Services	Request Performance							
Change Console preferences	<ul> <li>Server Templates</li> </ul>	Messaging	Archives							
Manage Console extensions	<ul> <li>Migratable Targets</li> </ul>	<ul> <li>JMS Servers</li> </ul>	Context							
Monitor servers	Coherence Clusters	<ul> <li>Store-and-Forward Agents</li> </ul>	• SNMP							
System Status	Machines	<ul> <li>JMS Modules</li> </ul>	Interceptors							
-,	Virtual Hosts	<ul> <li>Path Services</li> </ul>	Charles and Complex							
	Virtual Targets		Charts and Graphs							
Health of Running Servers as of 11:48 AM	Work Managers	<ul> <li>Bridges</li> </ul>	Monitoring Dashboard							

	servers:										
	Summary of Servers - ba	ase_domain -	WLS Conso	le - Mozilla F	irefox			-	•	;	
Ports Configuration: ohs × Sum	imary of Servers - ba 🗙	+									
🗲 🛈   http://hpgen9-02:7001/consol	e/console.portal?_nfpb=true	&_p 🖾 909	6 6 9	Search		☆自	+	⋒		Ξ	
	ation Console 12c									õ	
Change Center 🏠	Home Log Out Preferences 🔝 Record	Help	Q		We	lcome, weblo	gic Conr	nected to:	base_do	mair	
View changes and restarts He	ome -Summary of Servers										
Click the Lock & Edit button to modify, add or Sun	nmary of Servers										
delete items in this domain.	onfiguration Control										
Lock & Edit											
Release Configuration	A server is an instance of WebLogic Server t	hat runs in its own Jav	a Virtual Machine	(JVM) and has its ov	vn configuration.						
	This page summarizes each server that has t	peen configured in the	current WebLogic S	Server domain.							
Domain Structure		5									
D-Domain Partitions	0										
Environment	B. Customize this table										
Deployments     Services	Customize this table										
	Servers (Filtered - More Columns Exist)										
Interoperability     Diagnostics	Click the Lock & Edit button in the Change	Center to activate all t	he buttons on this j	page.							
	New Clone Delete					Showing	1 to 1 of 1	Previou	ıs   Next		
	Name 😞	Туре	Cluster	Machine	State	Health	Lister	n Port			
	AdminServer(admin)	Configured			RUNNING	🛩 ок	7001				
How do I	New Clone Delete	1		<u> </u>		Showing	1 to 1 of 1	Previou	ıs   Next		
Create Managed Servers										- 1	
Clone servers											
Delete Managed Servers											
Delete the Administration Server											
Start and stop servers     View objects in the JNDI tree											
System Status											
Health of Running Servers as of 11:49 AM											
Failed (0)											

#### Viewing the summary of servers:

## Viewing the summary of Machines:

	Summary of Machines - base_domain - WLS Console - Mozilla Firefox				-	•	×
Ports Configuration: ohs ×	Summary of Machines × +						
( i)   http://hpgen9-02:7001/c	onsole/console.portal?_nfpb=true&_p 🛛 🗐 🧐 🔍 Search	☆	Ê	+	⋒		≡
	inistration Console 12c						<u></u>
Change Center	Professional Preferences 🔤 Record Help	Welcome	weblogi	c Conne	ected to:	base_do	omain
View changes and restarts	Home >Summary of Servers >Summary of Machines						
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Machines						31
Lock & Edit Release Configuration	A machine is the logical representation of the computer that hosts one or more WebLogic Server instances (servers). Web determine the optimum server in a cluster to which certain tasks, such as HTTP session replication, are delegated. The Ar conjunction with Node Manager to start remote servers.						
Domain Structure	This page displays key information about each machine that has been configured in the current WebLogic Server domain.						- 11
base_domain	P Customize this table						
Deployments     Services	Machines						- 11
Security Realms	Click the Lock & Edit button in the Change Center to activate all the buttons on this page.						
Interoperability     Diagnostics	New Clone Delete		Showing 1	to 1 of 1	Previo	us Nex	t
	Name 🌣 Tyj	/pe					
	SUSE_Machine_1 Ma	achine					
	New Clone Delete		Showing 1	to 1 of 1	Previo	us Nex	et
How do I							- 18
Create and configure machines							-1
Assign server instances to machines							
Clone machines							
Delete machines							
System Status							
Health of Running Servers as of 11:50 AM							
Failed (0)							
Critical (0)							
Overloaded (0)							

# 3). Access to Oracle HTTP Server listening address

### URL: http://host:7777/

		Oracle HTTP Serve	r 12c - Mozilla	Firefox				-	. •	×
Ports Configuration: ohs	× Summary of Machir	es × Oracle H	TTP Server 12c	× +						
( i)   http://hpgen9-02:	:7777/		90% C	Q Search		☆ ≜		⋒	◙	≡
ORACLE Or	acle HTTP Server 12	;								
	Incle HTTP Server 12c is based on the cle Fusion Middleware Applications.	proven, open source Apache HTTI	P Server technology ar	nd provides the framework for h	osting static, dyr	namic web pa	iges and fo	ar front-enc	ing	
	Process Management and HA ?? Certificate management ?? Automation ?? Test to Production ??	Local Content	9	Authenrization		ent liddleware cations				
	FMW Lifecycle Tools			Manage, mor diagnose Enterprise Manag	,					

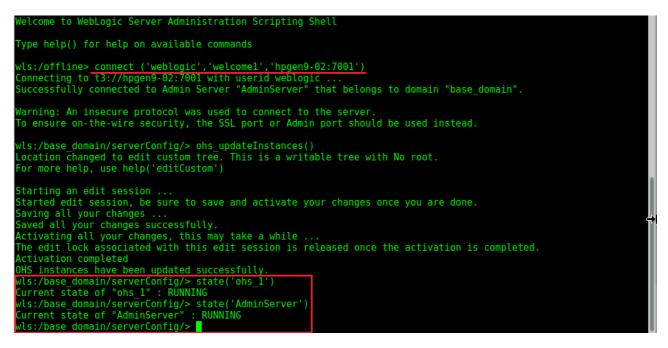
### SSL URL: https://host::4443/

Orac	le HTTP Server 12c - Mozilla Firefox				-	•	×
Ports Configuration: ohs × Summary of Machines	× Oracle HTTP Server 12c × +						
🗲 🛈 🕰   https://hpgen9-02:4443/	90%   C   Q Search	☆	ê	+	⋒		≡
ORACLE Oracle HTTP Server 12c							
Oracle HTTP Server 12c is based on the proven, ope Oracle Fusion Middleware Applications.	en source Apache HTTP Server technology and provides the framework for hosting static,	dynamic we	ab pages	and for f	ront-endi	ng	
Process Management and HA Certificate management Op Automation Test to Production							
	Manage, monitor, diagnose Enterprise Manager						

## Admin Host URL: http://host:7779/

Orac	le HTTP Server 12c - Mozilla Firefox			-	×
Ports Configuration: ohs × Summary of Machines	× Oracle HTTP Server 12c × +				
( i http://127.0.0.1:7779/	C Search	☆自	÷	Â	≡
ORACLE Oracle HTTP Server 12c					1
					-1
Oracle HTTP Server 12c is based on the prov pages and for front-ending Oracle Fusion Middlewa	en, open source Apache HTTP Server technology and provides the framework e Applications.	or hosting sta	tic, dyna	mic web	
	JS C Audit Control	Identit	/		
Process Management and HA	Local Content	Managen	ient		
Certificate	Auditing Authentication Authorization				
management	Author				
Automation %					
<u> </u>	OHS Load Balancing	Fusion	Middler	ware	
Test to Production		Арр	ication	IS	
	<b></b>				
FMW Lifecycle Tools	Manage, mon	itor,			
	diagnose				

4-5. Checking OHS state through Oracle WLST tool.



End of Oracle WebTier Http Server.

Oracle WebCenter Portal

### 1. Installing Oracle WebCenter Portal 12c

1-1. Prerequisites:

Installation of Oracle WebCenter Portal requires:

- 1). Oracle Database 12cR2 (12.2.0.1.0) installed.
- 2). Oracle JDK 1.8.0\_131 and later installed.
- 3). Oracle WebLogic Server 12cR2 (12.2.1.3.0) (Fusion Middleware Infrastructure Installer)

1-1. Log in to the target system (SLES 12 64-bit OS) as a non-admin user. Download the Oracle WebCenter Portal 12c (12.2.1.3.0) from

http://www.oracle.com/technetwork/indexes/downloads/index.html#middleware.

(Note: Please ensure the installation user has the proper permissions to install and configure the software.)

1-2. Go to the directory where you downloaded the installation program. Extract the contents of this .zip (fmw\_12.2.1.3.0\_wcportal\_Disk1\_1of1.zip) file and launch the installation program by running 'java -jar fmw\_12.2.1.3.0\_wcportal\_.jar '

#### For the actual installation, follow the steps below:

1). Welcome page.

Oracl	e Fusion Middleware 12c WebCenter Portal Installation - Step 1 of 8 _ ×
Welcome	
Welcome	
Auto Updates	Welcome to the Oracle Fusion Middleware 12c (12.2.1.3.0) WebCenter Portal Installer.
Installation Location	Use this installer to install the WebCenter Portal software into an existing Oracle Home.
Installation Type	Before proceeding, ensure that you have installed Oracle Fusion Middleware Infrastructure 12c.
Prerequisite Checks	For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware documentation library.
Installation Summary	
Installation Progress	Context-sensitive online help is available from the <u>H</u> elp button.
Installation Complete	
	Copyright © 1996, 2017, Oracle and/or its affiliates. All rights reserved.
Help	< Back Next > Finish Cancel

This page welcomes you to the installation. Click Next to continue.

### 2). The Auto Updates page appears.

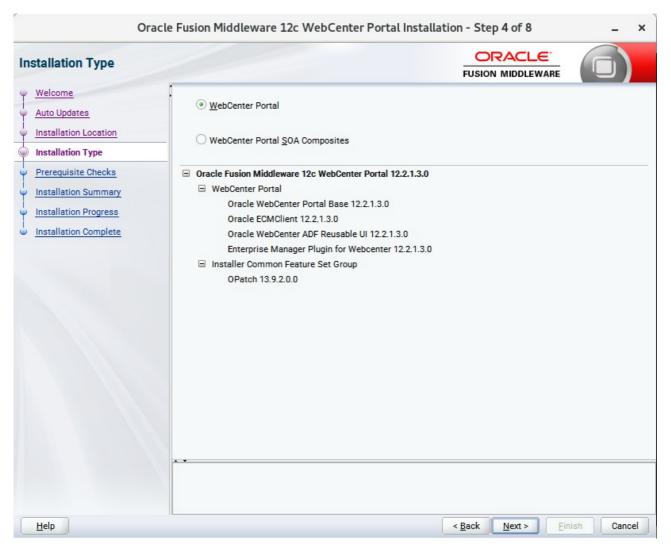
Oracle	e Fusion Middlev	ware 12c WebCenter Port	al Installation - Step 2 of 8	_ ×
Auto Updates				
Welcome         Auto Updates         Installation Location         Installation Type         Prerequisite Checks         Installation Progress         Installation Complete	<ul> <li>Skip <u>A</u>uto Upda</li> <li>Select patches</li> <li>Location:</li> <li>Search <u>My</u> Ora</li> <li><u>U</u>sername:</li> <li><u>P</u>assword:</li> </ul>	s from <u>directory</u> cle Support for Updates		ARE Browse
Help			< <u>B</u> ack <u>N</u> ext >	Einish Cancel

This page enables you to choose to automatically receive software updates for your components from Oracle Corporation. make your choices, then click **Next** to continue.

			- 444	
Welcome	Oracle Home:			
Auto Updates	/home/oracle/Oracle/Middleware/Oracle_Home		-	Browse
Installation Location	Feature Sets Installed At Selected Oracle Home: View			
Installation Type	Oracle Fusion Middleware 12c Infrastructure 12.2.1.3.0			
Prerequisite Checks	Core Server			
Installation Summary	Core Application Server 12.2.1.3.0			
	Coherence Product Files 12.2.1.3.0			
Installation Progress	Web 2.0 HTTP Pub-Sub Server 12.2.1.3.0			
Installation Complete	WebLogic SCA 12.2.1.3.0			
	WebLogic Client Jars 12.2.1.3.0			
	Administrative Tools			
	Administration Console Additional Language Help Files 12	.2.1.3.0		
	CIE WLS Config 12.2.1.3.0			
	Enterprise manager 12.2.1.3.0			
	<ul> <li>Database Support</li> </ul>			
	Third party JDBC Drivers 12.2.1.3.0			
	WebLogic Evaluation Database 12.2.1.3.0			
	Open Source Components			
	Fusion Middleware Maven Support 12.2.1.3.0			
	JRF and Enterprise Manager			
	WLS for FMW 12.2.1.3.0			
	Oracle Automatic Diagnostic Repository Feature Set Group			L
	FMW Platform Generic 12.2.1.3.0			Ŀ
	installation.			
	This page only shows Feature Sets installed at the selected Oracle H It does not show Feature Sets installed anywhere else.	łome.		

### 3). The **Installation Location** page appears.

Specify the Oracle home location into which you want to install the product(s). Click **Next** to continue.



### 4). The Installation Type page appears.

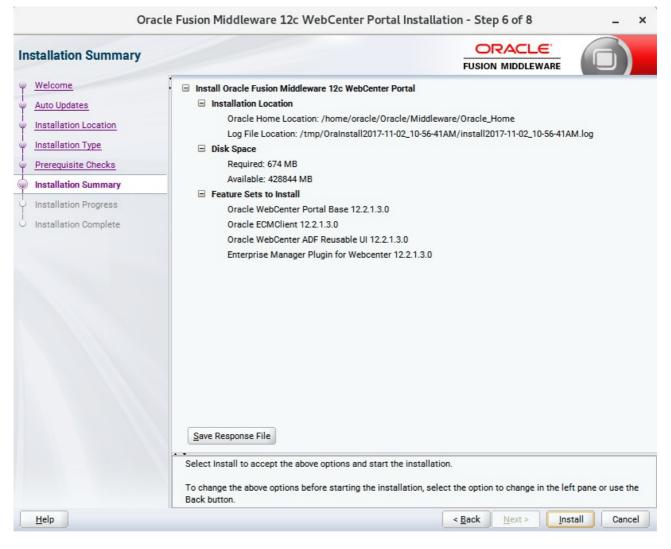
Use this screen to select the installation type and then products or feature sets you want to install. Selected the **WebCenter Portal** install type to install the WebCenter product. Click **Next** to continue.

Or	acle Fusion	Middleware 12c WebCenter Portal Installation - Step 5 of 8	_ ×
Prerequisite Checks			
<u>Welcome</u>	1		
Auto Updates		100%	
Installation Location		Checking operating system certification	
Installation Type		Checking Java version used to launch the installer	
Prerequisite Checks			
Installation Summary			
Installation Progress			
O Installation Complete			
Help		Rerun       Skip       View Successful Tasks         ecking operating system certification       ecking Java version used to launch the installer         < Back	View Log

### 5). The **Prerequisites Checks** page appears.

This page shows you what components and features are about to be installed. If you need to make changes, click **Back**, otherwise, click **Install** to start the installation.

#### 6). The Installation Summary page appears.



This page shows you what components and features are about to be installed. If you need to make changes, click **Back**, otherwise, click **Install** to start the installation.

Oracl	e Fusion Middleware 12c WebCenter Portal Installation - Step 7 of 8 _	×
Installation Progress		
9 Welcome		
Auto Updates	100%	
Installation Location		
Installation Type	Prepare	
Prerequisite Checks	Сору	
↓ ♀ Installation Summary	Generating Libraries	
Installation Progress	Performing String Substitutions	
Installation Complete	V Linking	
	Setup	
	Saving the inventory	
	Post install scripts	
	View Messages View Liew Successful Tasks View L	og
	Oracle Fusion Middleware Productivity. Flexibility.	+ + + + + + + + + + + + + + + + + + + +
	Experience.	
Help	< <u>Back</u> <u>Next</u> > <u>Finish</u> Canc	el 🛛

#### 7). The Installation Progress page appears.

This page shows you the progress of the installation, and will warn you if there are any problems. You can view messages and logs from this page, but typically no action is required here. When progress is complete, click **Next** (go to a Summary page). Alternatively, you can click **Finish**.

8). If you clicked **Next**, the **Installation Complete** page appears, showing you the components that have been installed.

nstallation Complete				
Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Progress	<ul> <li>Install Oracle Fusion Middleware 12c WebCenter Portal</li> <li>Installation Location         Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home         Log File Location: /tmp/OraInstall2017-11-02_10-56-41AM/install2017-11-02_10-56-41AM.log</li> <li>Feature Sets Installed Successfully         Oracle WebCenter Portal Base 12.2.1.3.0         Oracle ECMClient 12.2.1.3.0         Oracle WebCenter ADF Reusable UI 12.2.1.3.0         Enterprise Manager Plugin for WebCenter 12.2.1.3.0</li> <li>Pre-Existing Feature Sets         OPatch 13.9.2.0.0</li> </ul>			

Click **Finish** to dismiss the installer.

### 2. Creating Oracle Database Schema through Repository Creation Utility(RCU)

2-1. Repository Creation Utility (RCU) is available with the Oracle WebLogic Server 12cR2 Fusion Middleware Infrastructure distribution. Run **\$FMW\_HOME/oracle\_common/bin/rcu** and create required database schemas for Oracle Oracle WebCenter Portal.

pository Creation Utility	1			
Welcome Create Repository	<ul> <li>Specify a unique prefix for all sch schemas later.</li> </ul>	nemas created in this session, s	so you can easily locate, reference, and mana	ge th
Database Connection Details	O Select existing prefix:			
Select Components				
	Oreate new prefix:	SUSEDEMO		
Schema Passwords		Alpha numeric only. Canno	ot start with a number. No special characters	6
Map Tablespaces				
Summary	Component		Schema Owner	_
Completion Summary		Oracle AS Repository Components		_
	AS Common Sche			
		astructure Services *	SUSEDEMO_STB	
		m Security Services	SUSEDEMO_OPSS	
	User Messagir	-	UMS	_
	Audit Services		SUSEDEMO_IAU	
	Audit Services		SUSEDEMO_IAU_APPEND	
	Audit Services		SUSEDEMO_IAU_VIEWER	_
	Metadata Serv		SUSEDEMO_MDS	_
	Weblogic Serv		SUSEDEMO_WLS	
	■ WebCenter Portal			_
	Portal and Ser		SUSEDEMO_WEBCENTER	_
	Portlet Produc	ers	SUSEDEMO_PORTLET	

Select the **Create new prefix** radio button and provide a schema prefix (such as SUSEDEMO). Select the components as shown above, and ensure schema creation is successful.

### 3. Configuring Oracle WebCenter Portal 12c using the Config Wizard

3-1. In order to complete the configuration. Run the config wizard using **config.sh** located in the **ORACLE\_HOME/oracle\_common/common/bin** directory.

#### Follow these steps:

1). On the Configuration Type screen, select **Create a new domain**, and enter the desired domain home path.

	Fusion Middle	eware Configu	ration Wizar	d - Page 1 d	of 8		-	×
Configuration Type				Ē				
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	What do you want Create a new d Update an exis Domain Location: Create a new doma	lomain ting domain vracle/Oracle/Mi	ddleware/Oracle_		ojects/domains/bas		n B <u>r</u> owse	
Help				< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel	

Click Next to continue.

#### 2). The **Templates** screen appears.

	Fusion Middlew	are Configuration Wizard -	Page 2 of 12		_ ×
Templates					
Create Domain  Create Domain  Completes  Administrator Account  Administrator Account  Domain Mode and JDK  Database Configuration Type Component Datasources  JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Filter Templates: Available Templat Basic WebLog Oracle WebCe Oracle WebCe Oracle WebCe Oracle WebCe Oracle Enterpi Oracle Enterpi Oracle B2B Cl Oracle User M Oracle JRF SC Oracle DA& Co	Include all selected templates	cportal] cportal] wcportal] 3.0 [em] pracle_common] racle_common] monal		Browse
Help			< <u>Back N</u> ext >	Einish	Cancel

Use the **Templates** screen to select the templates you require. On the **Templates** screen, make sure **Create Domain Using Product Templates** is selected, then select the following template:

• Oracle WebCenter Portal - 12.2.1.3.0 [wcportal]

Selecting this template automatically selects the following as dependencies:

- Oracle Enterprise Manager
- Oracle WSM Policy Manager
- Oracle JRF
- WebLogic Coherence Cluster Extension

You can also select any of the Oracle WebCenter Portal products listed in the following table. You do not need to select all of these templates, and you can always run the configuration wizard again to add products to your domain later. Click **Next** to continue.

	Fusion Middlewa	are Configuration Wizard	- Page 3 of 12		_ ×
Application Location					
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain name: Domain location: Application location:	base_domain /home/oracle/Oracle/Middlewar Oracle/Middleware/Oracle_Hom			ain B <u>r</u> owse
Help			< <u>B</u> ack <u>N</u>	ext > <u>F</u> inisl	n Cancel

3). The Application Location screen appears.

Keep the default value for Application location.Click **Next** to continue.

	Fusion Middlev	ware Configuration Wizard - F	age 4 of 12	_ ×
Administrator Account				
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Name Password Confirm Password Must be the same a number or special ch	weblogic	at least 8 alphanumeric char	acters with at least one
Help			< <u>B</u> ack <u>N</u> ext >	Einish Cancel

#### 4). The Administrator Account screen appears.

Enter the WebLogic Domain administration username and password. This information will be needed to access WebLogic Server Control and Fusion Middleware Control. Click **Next** to continue.

	Fusion Middleware Configuration Wiza	rd - Page 5 of 12	_ ×
Domain Mode and JDK			
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	• Production	assword, and poll for applications to deploy. vord, and do not poll for applications to deploy. ACLE_SW/Java/jdk1.8.0_144	Browse
<u>H</u> elp		< Back Next > Finish	Cancel

#### 5). The **Domain Mode and JDK** screen appears.

Select the Domain Mode (either **Development** or **Production**). For our purposes, select **Production**. Leave the default JDK selection as it appears, unless using another version of the JDK desired.

(**Note**: The installation can only be secured with Identity Management if you are configuring your components in deployment mode.)

### 6). The Database Configuration Type screen appears.

	Fusion Middleware Configuration Wizard - Page 6 of 12 _ ×
Database Configuration Type	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Specify AutoConfiguration Options Using:
Help	< <u>Back</u> <u>Next</u> > <u>Finish</u> Cancel

Enter the RCU DB connection information, then click **Get RCU Configuration**. You should receive a success message. Click **Next** to continue.

	Fu	sion Middleware Co	nfigura	tion Wizar	d - Pa	ige 7 of 12	_ ×
JDBC Component Sc	hema						
Create Domain Templates Application Location Administrator Accourt Domain Mode and JD Database Configuratio Component Datasource JDBC Test Advanced Configuratio Configuration Summa	tt Hos K DBI on Type Sof ces Ora	Idor: Connection Parameters St Name: St	componer GridLink	O Convert 1	Passwe	multi data source 🔿 Don't con	vert
Configuration Progres	is 🗌	Component Schema	DBMS/	Host Name	Port	Schema Owner	Schema Pass
• End Of Configuration		ActivitiesDS Schema	SUSE	hpgen9-02	1521	SUSEDEMO_ACTIVITIES	
		LocalSvcTbl Schema	SUSE	hpgen9-02	1521	SUSEDEMO_STB	
		PortletDS Schema	SUSE	hpgen9-02	1521	SUSEDEMO_PORTLET	
		WLS Schema	SUSE	hpgen9-02	1521	SUSEDEMO_WLS_RUNTIME	
		WebCenterDS Schema	SUSE	hpgen9-02	1521	SUSEDEMO_WEBCENTER	
		mds-PageletProducerDS	SUSE	hpgen9-02	1521	SUSEDEMO_MDS	
Help						< <u>B</u> ack <u>N</u> ext > <u>F</u> inis	h Cancel

### 7). The JDBC Component Schema screen appears.

Our instructions assume each Repository schema uses the same password. If not, enter the correct schema passwords. Click **Next** to continue.

		Fu	sion M	iddleware Configuration Wizard - Pa	age 8 of 12	×
J	DBC Component Schema Tes	it				
平	Create Domain		Status	Component Schema	JDBC Connection URL	$\square$
人	Templates		1	ActivitiesDS Schema	jdbc:oracle:thin:@//hpgen9-02:1521/SUSE	1
6	Application Location		1	LocalSvcTbl Schema	jdbc:oracle:thin:@//hpgen9-02:1521/SUSE	
I	Administrator Account		1	PortletDS Schema	jdbc:oracle:thin:@//hpgen9-02:1521/SUSE	
Ĭ	and the first of the second		1	WLS Schema	jdbc:oracle:thin:@//hpgen9-02:1521/SUSE	2008
Y	Domain Mode and JDK		1	WebCenterDS Schema	jdbc:oracle:thin:@//hpgen9-02:1521/SUSE	22
Ý	Database Configuration Type		1	mds-PageletProducerDS Schema	jdbc:oracle:thin:@//hpgen9-02:1521/SUSE	
4	Component Datasources		1	WebCenter MDS Schema	jdbc:oracle:thin:@//hpgen9-02:1521/SUSE	
6	JDBC Test		1	OWSM MDS Schema	jdbc:oracle:thin:@//hpgen9-02:1521/SUSE	
Ĭ	Advanced Configuration		1	OPSS Audit Schema	jdbc:oracle:thin:@//hpgen9-02:1521/SUSE	ŀ
	Configuration Summary Configuration Progress	15	_	lected Connections <u>Cancel Testing</u> Result Log		
-	End Of Configuration	Driv URL Use Pas SQL	er=oracl =jdbc:or =SUSEE sword=* Test=s	Schema=ActivitiesDS Schema e.jdbc.OracleDriver acle:thin:@//hpgen9-02:1521/SUSE >EMO_ACTIVITIES ******* elect 1 from schema_version_registry where own 213: Test Successful!	er=(select user from dual) and mr_type='ACTIVITIES'	
	Help			[	< Back Next > Einish Cancel	

## 8). The JDBC Component Schema Test screen appears.

The tests are run and the results given. Ensure all test results are successful.Click **Next** to continue.

	Fusion Middleware Configuration Wizard - Page 9 of 21 _ ×
Advanced Configuration	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Coherence Clusters Machines Virtual Targets Partitions Configuration Summary	Administration Server Modify Settings Node Manager Configure Node Manager Topology Add, Delete or Modify Settings for Managed Servers, Clusters, Virtual Targets and Coherence Dgmain Frontend Host Capture Configure Domain Frontend Host Deployments and Services Target to Servers or Clusters File Store Modify Settings
Configuration Progress	< <u>Back Next &gt; Finish</u> Cancel

### 9). The Advanced Configuration screen appears.

On the Advanced Configuration screen, select:

- Administration Server
- Node Manager
- Topology

Then, click **Next** to continue.

	Fusion Middle	eware Config	uration Wiz	ard - Pag	ge 10 of	21		-	×
Administration Server								6	)
	Server Name Listen Address Listen Port Enable SSL SSL Listen Port Server Groups	AdminServer All Local Addres 7001 Unspecified		ontain any :					
<u>H</u> elp					< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Can	cel

10). The Administration Server screen appears.

Use the **Administration Server** screen to select the IP address of the host. Select the drop-down list next to **Listen Address** and select the IP address of the host where the Administration Server will reside, or use the system name or DNS name that maps to a single IP address.

Click Next to continue.

×

**B**<u>r</u>owse

Cancel

	Fusion Middleware C	onfiguration Wizard - Page 11 of 21
Node Manager		
Create Domain	s (	
Templates		
Application Location		
Administrator Account		
Domain Mode and JDK	Node Manager Type	
Database Configuration Type	Per <u>D</u> omain Default Lo	cation
Component Datasources	O Per Domain <u>C</u> ustom Lo	ocation
JDBC Test	Node Manager Home:	re/Oracle_Home/user_projects/domains/base_domain/nodemanager
Advanced Configuration	O Manual Node Manager	Setup
Administration Server	Node Manager Credentials	
Node Manager	Username:	weblogic
Managed Servers	Password:	······
Clusters	Confirm Password:	[]
Server Templates		1
Coherence Clusters		
Machines		

11). Configuring Node Manager screen appears.

\_

Virtual Targets

Configuration Summary Configuration Progress

Partitions

<u>H</u>elp

Select **Per Domain Default Location** as the Node Manager type, then specify Node Manager credentials. Click **Next** to continue.

number or special character.

-

Must be the same as the password. Password must contain at least 8 alphanumeric characters with at least one

< <u>B</u>ack

Next >

Finish

Managed Servers						
↓ <u>Create Domain</u> ↓ Templates		lone X Delete			🔊 Dis <u>c</u>	ard Changes
Application Location     Administrator Account	Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Group
Domain Mode and JDK	WC_Portlet	147.2.207.117	▼ 8889		Disabled	WebCenter
Database Configuration Type	WC_Portal	147.2.207.117	▼ 8888		Disabled	WebCenter
Advanced Configuration	8					
Administration Server     Node Manager     Managed Servers     Clusters						
Administration Server Node Manager Managed Servers						
Administration Server Node Manager Managed Servers Clusters Server Templates						
Administration Server Node Manager Managed Servers Clusters Server Templates Coherence Clusters						
Administration Server Node Manager Managed Servers Clusters Server Templates Coherence Clusters Machines	••					
Administration Server Node Manager Managed Servers Clusters Server Templates Coherence Clusters Machines Virtual Targets	•••					

#### 12). The Managed Servers screen appears.

On the **Managed Servers** screen, new Managed Servers named *WC\_Portlet*, and *WC\_Portal* are automatically created. In the **Listen Address** drop-down list, select the IP address of the host on which the Managed Server will reside or use the system name or DNS name that maps to a single IP address. The default **Server Groups** have already been selected for each server. Click **Next** to continue.

×

-

•

#### Fusion Middleware Configuration Wizard - Page 13 of 23 ORACLE Clusters FUSION MIDDLEWARE Create Domain X Delete Discard Changes Add Templates Application Location Cluster Name Cluster Address Frontend Host Frontend HTTP Frontend HTTPS Dynamic Server Port Port Groups Administrator Account wcp\_cluster\_1 0 0 Unspecified Domain Mode and JDK wcp\_cluster\_2 0 0 Unspecified Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Dynamic Servers Assign Servers to Clusters Coherence Clusters Machines Virtual Targets Partitions Help < <u>B</u>ack Next > Finish Cancel

#### 13). The Clusters screen appears.

On the Clusters screen:

- 1. Click Add.
- 2. Specify *wcp\_cluster\_1* in the Cluster Name field.
- 3. Leave the Cluster Address field blank.
- 4. Repeat these steps to create one more clusters: *wcp\_cluster\_2*.

Click Next to continue.

	Fusion Mid	dleware Cor	figuration Wizard	- Page 14 of	23	_ >
Server Templates						
Create Domain Templates	Add	Delete				🗐 Dis <u>c</u> ard Changes
Application Location     Administrator Account	Na	me	Listen Port	SSL Lis	sten Port	Enable SSL
Domain Mode and JDK						
Database Configuration Type     Component Datasources						
JDBC Test     Advanced Configuration	-					
Administration Server						
Node Manager     Managed Servers						
<u>Clusters</u>						
Server Templates						
Dynamic Servers     Assign Servers to Clusters						
<u>Coherence Clusters</u>						
<u>Machines</u> Virtual Targets						
Partitions	-					
Help				< <u>B</u> ack	<u>N</u> ext >	Einish Cancel

14). The Server templates screep appears.

If you are creating dynamic clusters for a high availability setup, use the Server Templates screen to define one or more server templates for domain. To continue configuring the domain, click **Next**.

Dynamic Servers								
Create Domain Templates							Dis <u>c</u> ard	Changes
Application Location     Administrator Account     Domain Mode and JDK	Cluster Name	Server Name Prefix	Server Template	Dynamic Cluster Size	Machine Name Match Expression	Calculated Machine Names	Calculated Listen Ports	Dynamic Cluster
Database Configuration Type	wcp_cluster_1	Disabled	Unspecifi	Disabled	Disabled			
Component Datasources	wcp_cluster_2	Disabled	Unspecifi	Disabled	Disabled			
Administration Server     Node Manager     Managed Servers     Clusters     Server Templates     Dynamic Servers								
T -								
Assign Servers to Clusters								
Assign Servers to Clusters     Coherence Clusters     Machines								

#### 15). The **Dynamic Servers** screep appears.

If you are creating dynamic clusters for a high availability setup, use the Dynamic Servers screen to configure the dynamic servers. If you are not configuring a dynamic cluster, click **Next** to continue configuring the domain.

	Fusion Middleware Configur	ation Wizard - Pa	ge 16 of 23		_ ×
Assign Servers to Clusters					
Create Domain	Servers		Clusters		
Templates         Application Location         Administrator Account         Domain Mode and JDK         Database Configuration Type         Component Datasources         JDBC Test         Advanced Configuration		۲	<ul> <li>Cluster</li> <li>wcp_cluster_1</li> <li>Server</li> <li>WC_Por</li> <li>wcp_cluster_2</li> <li>Server</li> <li>WC_Por</li> </ul>		
Administration Server     Node Manager     Managed Servers     Objected		3			
Clusters     Server Templates     Dynamic Servers					
Assign Servers to Clusters					
<u>Coherence Clusters</u>	* *				
w Machines	Select one or more servers in the left assign the server or servers to the clu		the right pane. Then use	the right arrow	button (>) to
Virtual Targets					
Partitions	-				
Help			< <u>B</u> ack <u>N</u> ext >	Einish	Cancel

16). The Assign Servers to Clusters screen appears.

In the Clusters pane, select the cluster to which you want to assign the servers; in this case, *wcp\_cluster\_1*. In the Servers pane, assign *WC\_Portal* to *wcp\_cluster\_1*, *then r*epeat to assign *WC\_Portlet* to *wcp\_cluster\_2*. Click **Next** to continue.

Fusion Middleware Configuration Wizard - Page 17 of 23								×
Coherence Clusters							6)	
T Create Domain	-					🦻 Dis <u>c</u> a	ard Change	s
<u>Templates</u> Application Location		Cluster Name			Cluster Listen	Port		
Administrator Account		defaultCoherenceCluster		7574				_
Domain Mode and JDK								
Database Configuration Type								
Component Datasources								
UDBC Test								
Advanced Configuration	1999							
Administration Server	33							
<u>Node Manager</u>								
Managed Servers								
Clusters								
Server Templates								
Unamic Servers								
Assign Servers to Clusters								
Coherence Clusters		• •						
Wachines								
Virtual Targets								
Partitions	•							
Help				< <u>B</u> ack	<u>N</u> ext >	inish	Cance	el

## 17). The **Coherence Clusters** screen appears.

Leave the default port number as the Coherence cluster listen port. Click **Next** to continue.

18).	The	Machines	screen	appears.
------	-----	----------	--------	----------

	Fusion Middleware Configur	ation Wizard - Page 18 of 24	_ ×
Machines			
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Dynamic Servers Coherence Clusters Coherence Clusters Machines Assign Servers to Machines Virtual Targets	Machine Unix Machine	Node Manager Listen Address	Discard Changes Node Manager Listen Port 5556
Help		< <u>B</u> ack <u>N</u> e	xt > Einish Cancel

To create a new Oracle WebCenter Portal machine so that Node Manager can start and stop servers. Click **Next** to continue.

2		Fusion Middleware Configuration Wizard -	Pa	ge 19 of	24		_ ×
4	Assign Servers to Machines					_	
A	Create Domain	Servers		Machines	3		
个	Templates				p_Machine_1		
J	Application Location Administrator Account			i i	l AdminServer l WC_Portal		
Y	Domain Mode and JDK				WC_Portlet		
Ý	Database Configuration Type		>				
Ĭ	Component Datasources		ď				
I	JDBC Test Advanced Configuration						
Ţ	Administration Server						
Y	Node Manager		8				
÷	Managed Servers		4				
Ý	<u>Clusters</u>						
Ý	Server Templates						
Ý	Dynamic Servers						
Ý	Assign Servers to Clusters						
Ý	Coherence Clusters						
Ý	Machines	Select one or more servers in the left pane and one mach assign the server or servers to the machine.	nine ii	n the right p	ane. Then use	the right arro	ow button (>) to
9	Assign Servers to Machines						
Ý	Virtual Targets						
	Help			< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

19). The Assign Servers to Machines screen appears.

Use the **Assign Servers to Machines** screen to assign the Managed Servers to the new machine you just created. Click **Next** to continue.

	Fusion Middlev	ware Configuration	Wizard - Page	20 of 24		_ ×
Virtual Targets						
Templates	Add	X Delete			🔊 Dis <u>c</u> ard	Changes
Application Location     Administrator Account	Name	Target	Host Names	URI Prefix	Explicit Port	Port Offset
Domain Mode and JDK				9 		
Database Configuration Type     Component Datasources						
<u>JDBC Test</u> <u>Advanced Configuration</u>						
Administration Server	264					
<u>Node Manager</u> Managed Servers						
Uusters						
<u>Server Templates</u> <u>Dynamic Servers</u>						
<u>Assign Servers to Clusters</u> <u>Coherence Clusters</u>						
4 Machines						
Assign Servers to Machines     Virtual Targets	▼					
Help			<	<u>B</u> ack <u>N</u> ext >	<u> </u>	Cancel

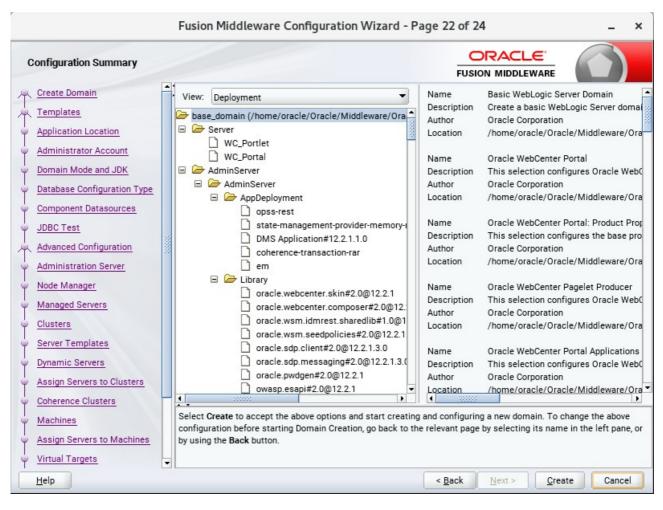
### 20). The Virtual Targets screep appears.

If you have a WebLogic Server Multitenant (MT) environment, you use the Virtual Targets screen to add or delete virtual targets. For this installation (not a WebLogic Server MT environment), you do not enter any values; just select **Next**.

		Fusion Middleware Configuration Wizard - F	Page 21 of	24	_ ×
Partitions					
Create Domain Templates	Î	Add X Delete		5	Discard Changes
Application Location		Na	me		
Administrator Account					
Domain Mode and JDK					
Database Configuration Type	<u>e</u>				
Component Datasources					
JDBC Test	20				
Advanced Configuration	0000				
Administration Server					
Vode Manager					
Managed Servers					
<u>Clusters</u>					
Server Templates					
Upnamic Servers					
Assign Servers to Clusters					
Coherence Clusters		• •			
Machines					
Assign Servers to Machine	<u>s</u>				
Virtual Targets	-				
Help			< <u>B</u> ack	<u>N</u> ext > Eir	ish Cancel

# 21). The **Partitions** screep appears.

The Partitions screen is used to configure partitions for virtual targets in WebLogic Server Multitenant (MT) environments. Select **Next** without selecting any options.



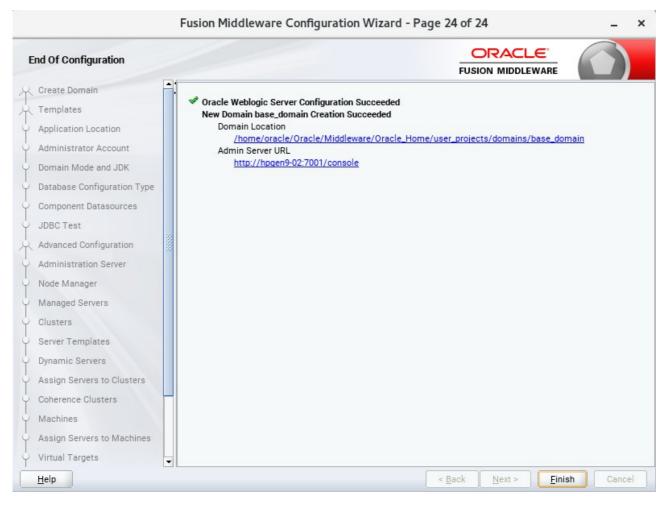
# 22). The Configuration Summary screen appears.

Select Create to accept the above options and start creating and configuring a new domain.

F	sion Middleware Configuration Wizard - Page 23 of 24	_ ×
Configuration Progress		
R Create Domain		
R Templates	100%	
Application Location	Copy Unprocessed Artifacts	
Administrator Account		
↓ Domain Mode and JDK		
Database Configuration Type	Artifacts Generation	
	Post Processing	
JDBC Test		
Advanced Configuration		
4 Administration Server		
V Node Manager		
↓ Managed Servers		
Q Clusters		
Server Templates		
Q Dynamic Servers		
Assign Servers to Clusters		
Coherence Clusters		
↓ Machines		
Assign Servers to Machines		
↓ Virtual Targets		
Help	< Back Next > Finis	h Cancel

# 23). The Configuration Progress screen appears.

Wait for this part of the configuration to complete. Depending on the location and performance of the Repository database, this process may take a few minutes. After the domain successful created, click **Next** to continue.



# 24). The End of Configuration screen appears.

Once you see: "Oracle Weblogic Server Configuration Succeeded", record the 'Domain Location' and 'Admin Server URL', then click Finish to dismiss the Configuration Wizard.

# 4. Verifying Oracle WebCenter Portal 12c Installation and Configuration

4-1. Check for the presence of installation log files in logs directory inside your Oracle Inventory directory. Also, check the domain server logs, which are located in the servers directory inside the domain home directory.

4-2. Starting the Node Manager and the Admin Server.

# Starting the Node Manager, go to the DOMAIN\_HOME/bin directory and run 'nohup ./startNodeManager.sh > nm.out&'

		oracle(	@hpgen9-	02:/home/o	oracle/Oracle/Midd	leware/Oracle.	Home/user_pro	ojects/d	domains/base_domain/bin	- 0	×
File	Edit View	Search	Terminal	l Tabs H	lelp						
ora	cle@hpgen	9-02:/ho.	×	oracle@h	npgen9-02:/ho ×	oracle@h	npgen9-02:/ho	×	oracle@hpgen9-02:~ ×	n	•
	e@hpgen9- anager.sh			le/Oracle	e/Middleware/Or	acle_Home/u	ser_projects	/domai	ins/base_domain/bin>_nohu	p ./st	art
[1] 1	9708			e/Oracle	/Middleware/Or	acle Home/us	ser projects	/domai	ins/base domain/bin> nohu	n∙ ian	ori
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									ins/base_domain/bin> more projects/domains/base do		
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Starting the Admin Server, go to the DOMAIN\_HOME/bin directory and run ./startWebLogic.sh.

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You know that the administrator server is running when you see the following output:

Server state changed to RUNNING.

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- 4-3. Checking Oracle WebCenter Product URLs.
- 1). Access to Enterprise Manager Console.

# Login Page:

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7 Down	WC_Portlet	+	wcp_cluster_2	wcp_Machine_1	Shutdown		Unknown		
Up									
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# Starting the Oracle WebCenter Portal Managed Servers:

# Select WC\_Portal, and WC\_Portlet.

- Left-click to select a managed server.
- Hold down the SHIFT key to select more than one managed server.

Select **Control** from the ribbon menu above the list of managed servers. Then select **Start** from the drop-down menu.

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# After they start up successfully, each managed server is listed as Running.

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Deployments	WC_Portal	+	wcp_cluster_1	wcp_Machine_1	Running			ок			
	WC_Portlet	+	wcp_cluster_2	wcp_Machine_1	Running			OK			
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Checking WebCenter Servers state through Oracle WLST tool.

```
Welcome to WebLogic Server Administration Scripting Shell
Type help() for help on available commands
wls:/offline> connect ('weblogic', 'welcomel', 'hpgen9-02:7001')
Connecting to t3://hpgen9-02:7001 with userid weblogic ...
Successfully connected to Admin Server "AdminServer" that belongs to domain "base_domain".
Warning: An insecure protocol was used to connect to the server.
To ensure on-the-wire security, the SSL port or Admin port should be used instead.
wls:/base_domain/serverConfig/> state('AdminServer')
Current state of "AdminServer" : RUNNING
wls:/base_domain/serverConfig/> state('WC_Portal')
Current state of "WC_Portal" : RUNNING
wls:/base_domain/serverConfig/> state('WC_Portlet')
Current state of "WC_Portlet" : RUNNING
```

#### 2). Access to Administration Server Console

#### Login Page as shown below:

Oracle WebLogic Server Administration Console - Mo	ozilla Firefox	-	•	×
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( ) ) / http://hpgen9-02:7001/console/login/LoginForm.jsp 90%   C Q Sea	arch 🔂 🖨	∔ ⋒		≡
	Welcome Log in to work with the WebLogic Server dom Username: weblogic Password: ••••••			
WebLogic Server Version: 12.2.1.3.0 Copyright (c) 1996,2017, Oracle and/or its affiliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.				

#### Home Page: Home Page - base\_domain - WLS Console - Mozilla Firefox \_ • × base\_domain (Oracle We... × Home Page - base\_doma... × + ← ③ / http://hpgen9-02:7001/console/console.portal?\_nfpb=true8 🛛 90% | C 🔍 🔍 Search ☆ 自 ♣ 佘 ♡ = 0 ORACLE WebLogic Server Administration Console 12c 🔒 Home Log Out Preferences 🔤 Record Help Welcome, weblogic Connected to: base\_domain Q Change Center Home View changes and restarts Home Page Click the Lock & Edit button to modify, add or delete items in this domain - Information and Resources Lock & Edit Helpful Tools General Information Release Configuration Configure appl Common Administration Task Descriptions Configure GridLink for RAC Data Source Read the documentation Domain Structure base\_domain - Domain Partitions - Environment - Deployments - Services - Security Realms Configure a Dynamic Cluster Ask a question on My Oracle Support Recent Task Status Set your console preferences Oracle Enterprise Manager - Domain Configurations Interoperability Diagnostics Domain Resource Group Templates Interoperability Resource Group Templates • Domain WTC Servers Jolt Connection Pools Domain Partitions Resource Groups Domain Partitions Resource Groups Diagnostics Partition Work Managers Log Files How do I... Ξ. Deployed Resources Diagnostic Modules Search the configuration Environment Built-in Diagnostic Modules Deployments Use the Change Center Diagnostic Images Servers Record WLST scripts Request Performance Clusters Services Clusters Server Templates Migratable Targets Change Console preferences Archives Messaging JMS Servers Manage Console extensions Context Monitor servers SNMP Coherence Clusters Store-and-Forward Agents Interceptors JMS Modules Machines System Status - Virtual Hosts Path Services Bridges Health of Running Servers as of 12:12 PM Charts and Graphs Virtual Targets Work Managers Monitoring Dashboard IP Failed (0) Data Sources Concurrent Templates

#### Viewing the summary of servers:

			Summary of Servers	- base_dom	ain - WLS Cons	ole - Mozilla Firefo	ж			-	•	×
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Change Center	]	Hor	ne Log Out Preferences 📐 Re	cord Help	6	<b>L</b>	Welc	ome, weblogi	c Conne	cted to: <b>k</b>	base_do	main
View changes and restarts		Home	Summary of Servers			_						_
Click the Lock & Edit button to modify, add or	Su	ımma	ry of Servers									
delete items in this domain.		Config	uration Control									
Lock & Edit												-18
Release Configuration		Ase	ver is an instance of WebLogic Se	rver that runs in its	own Java Virtual Machine	(JVM) and has its own conf	iguration.					- 18
Domain Structure		This	bage summarizes each server that	has been configure	d in the current WebLogic	Server domain.						- 18
base domain	Ш.,											- 18
Domain Partitions		Ç5										- 18
Environment     Deployments		Cus	tomize this table									
Services												
Security Realms     Interoperability			ers (Filtered - More Columns Ex									
Diagnostics		Click	the Lock & Edit button in the Cha	ange Center to activ	rate all the buttons on this	page.						
		Ne	w Clone Delete					Showing 1 t	to 3 of 3	Previous	Next	
			Name 🗠	Туре	Cluster	Machine	State	Health	Liste	en Port		
			AdminServer(admin)	Configured		wcp_Machine_1	RUNNING	🛩 ок	7001			
How do I			WC_Portal	Configured	wcp_cluster_1	wcp_Machine_1	RUNNING	🖋 ок	8888			
Create Managed Servers			WC_Portlet	Configured	wcp_cluster_2	wcp_Machine_1	RUNNING	🖋 ок	8889			
Clone servers     Delete Managed Servers		Ne	w Clone Delete					Showing 1 t	to 3 of 3	Previous	Next	
Delete the Administration Server												- 18
Start and stop servers												
View objects in the JNDI tree												
System Status												
Health of Running Servers as of 12:12 PM												
Failed (0)												

# 3). Test Oracle WebCenter Portal Web Service

# a. **Application:** opss-rest (URL:<u>http://host:7001/idaas/platform/application.wadl)</u>

		Mozilla Firefox				-	•	×
base_domain (Oracle We × Summary of	of Servers - ba × htt	tp://hpgenication.wa	dl × +					
( ) http://hpgen9-02:7001/idaas/platform	n/application.wadl	90% C	Q Search	☆ 自	+	⋒		≡
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<ul> <li><ns0:application></ns0:application></li> <li><ns0:doc 2.22.4.2"<="" jersey:="" li="" title="Oracle Identity API Definition&lt;br&gt;Oracle Identity Manager exposes a set of U&lt;br&gt;Refer to the Developer's Guide for the comp&lt;br&gt;&lt;/ns0:doc ns1:generatedBy="> <li><ns0:doc configuration.xsd"="" ns2:hint="This is simplified WADL v&lt;br&gt;http://hpgen9-02:7001/idaas/platform/appl&lt;/li&gt;     &lt;li&gt;&lt;ns0:grammars&gt;&lt;/li&gt;     &lt;li&gt;&lt;ns0:include href="></ns0:doc></li> <li><ns0:resources <="" base="http://hpgen9-02:700" li=""> <li><ns0:resource path="/admin/v1"></ns0:resource></li> </ns0:resources></li></ns0:doc></li></ul>	IRI resources providing RI plete list of supported API 2016-11-30 13:33:53"/> vith user and core resource ication.wadl?detail=true"/ 1/idaas/platform/"> 0urces. Key store manag CA certificate chain to do tes by alias or entire domain ( SF for maps and keys. Tru Accessor Configuration ken Attribute Information ertificate in X509, PKCS# ey - Retrieve secret key pro- esources. Key store mana ed CA certificate chain to do	Is and more information ces only. To get full WA /> lement for JKS format main OWSM keystore ( ain OWSM keystore. Cr CSF with new credentia ust Configuration Mana Download a list of Tru h. Key Store Service (KS 7 for (TrustedCertificat operties. agement for JKS format domain OWSM keystor	n about each. DL with extended resources use Upload server signing/encrypti JKS,KSS) Download trusted C edential Store Management - Cr II Delete an entry from domair gement - Upload a Collection of st Configuration Upload a Col S) - Create keystore - List keysto e, Certificate, or PKCS#7) - Expo at - Upload server signing/encry e (JKS,KSS) Download trusted	the query p ing certificat A certificate reate an ent CSF for a g f SAML and lection of Tri ore per striptor port certificat pting certificat	e to de es from ry in de ust Tol e - Dele e in Ba e atte to cate to	omain n doma omain, key ssuer, s ken Att te keys sse64 f	OWSM OWSM WCSF wi subject rribute: store - or X50 in OWS main	SM SM DN, s 9, SM

# Oracle Fusion Middleware 12c on SLES 12 SP3

# b. **Application:** pagelet-producer (URL: <u>http://host:8889/pagelets/welcome</u>)

Page	let Producer - Mozilla Fi	refox			-	•	×
base_domain (Oracle We × Summary of Servers - ba × Pagelet Producer × +							
(i)   http://hpgen9-02:8889/pagelets/welcome	90% C	Q Search	☆ 🖻	₽	俞		≡
	- due ou						
ORACLE' WebCenter Portal: Pagelet Pr	ouucer						
Welcome to Oracle WebCenter Portal: Pagelet Producer If you are able to view this page through the Pagelet Producer proxy, then your	Pagelet Producer installation i	is functioning correctly.					
URL: <u>http://host:8889/pagelets/admin/login</u> /							

base_domain (Oracle We x Summary of Servers - ba x Pagelet Producer Ad x +		5	j					
CRACLE' WebCenter Portal: Pagelet Producer Sign In Enter your Pagelet Producer or WebLogic Domain Admin Credentials. Username weblogic Password ••••••• @	base_domain (Oracle We × Summary of Serv	vers - ba	× Pagelet Producer Ad.	× +				
Sign In         Enter your Pagelet Producer or WebLogic Domain Admin Credentials.         Username       weblogic         Password       •••••••         Go	🗲 🛈 🔏   http://hpgen9-02:8889/pagelets/admin/l	login/loginp	oage.jspx 90% C	Q Search	☆ (	È √	F 🏦	≡
Sign In         Enter your Pagelet Producer or WebLogic Domain Admin Credentials.         Username       weblogic         Password       •••••••         Go								
Sign In         Enter your Pagelet Producer or WebLogic Domain Admin Credentials.         Username       weblogic         Password       •••••••         @o	ORACLE' WebCenter Portal: I	Pagelet	t Producer					
Enter your Pagelet Producer or WebLogic Domain Admin Credentials. Username Weblogic Password •••••••		-						
Enter your Pagelet Producer or WebLogic Domain Admin Credentials. Username Weblogic Password ••••••• Go								
Enter your Pagelet Producer or WebLogic Domain Admin Credentials. Username Weblogic Password ••••••• 6	•	Sign In						
Password 6		-	elet Producer or WebLogic Domain Adn	nin Credentials.				
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bopright© 2013, 2017, Orade. All rights reserved.		1 8330010		Go				
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Welcome_resource     General		Description	This resource contains the standard welcome page.									
Policy		* Course UDI	/loginserver/welcome/									
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Headers Pagelets		Source Timeout (in seconds)	30 🖨									
Injectors		Destination URL	/welcome/									
Parsers		DHTML Rewriting	~									
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Iogin_resource		Asynchronous newnung										
⊳ pagelet_api												
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#### c. Application: wsrp-tools (URL: <u>http://host:8889/wsrp-tools</u>)

WSRP Test Page - Mozilla Firefox						
base_domain (Oracle We × Summary of Servers - ba × WSRP Test Page × +						
( <ul> <li>() http://hpgen9-02:8889/wsrp-tools/</li> <li>(90%) (C) Q. Search</li> <li>☆ (自) ↓</li> </ul>	⋒		≡			
ORACLE WebCenter Portal : Portlets						
WSRP Producer Test Page						
Your WSRP Producer Contains the Following Portlets:						
Portlet Name (Minimum WSRP Version)						
Parameter Display Portiet (2.0)     Parameter Form Portiet (2.0)						
Container Configuration						
Persistent Store Type: Database						
Value obtained from environment entry java:comp/envi/oracle/portal/wsrp/server/persistentStore						
Data Source Name: java:comp/env/jdbc/portletPrefs						
Using default value. To change it, specify the following environment entry java:comp/env/oracle/portal/wsrp/server/dataSourceName						
Use Java Object Cache: true						
Value obtained from environment entry java.comp/envi/oracle/portal/warp/server/enableJavaObjectCache						
Container Version						
Implementation version: 12.2.1.3.0 , Label: WCCORE_12.2.1.3.0_GENERIC_170820.1233.S						
WSDL URLs						
WSRP v1 WSDL WSRP v2 WSDL						
SOAP Monitor						
SOAP Monitor						

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base_domain (Oracle 🗴 Su	ummary of Servers 🗙	WSRP Test Page ×	http://hpgsrp2?WSDL ×	http://hpgsrp1	WSDL?	×	+
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 <pre><port name="WSRPServiceDes&lt;/td&gt;&lt;td&gt;names:tc:wsrp:v1:bind&lt;sup&gt;®&lt;/sup&gt; locat&lt;br&gt;ce"> ce"&gt; inding="bind:WSRP_v1_ tp://hpgen9-02:8889/wsrp-t scriptionService" binding="bin tp://hpgen9-02:8889/wsrp-t tp://hpgen9-02:8889/wsrp-t nagementService" binding="l</port></pre>	tion="http://hpgen9-02:8889/ Markup_Binding_SOAP"> cools/portlets/WSRPBaseSen nd:WSRP_v1_ServiceDescript cools/portlets/WSRPServiceD RP_v1_Registration_Binding_ cools/portlets/WSRPRegistra	vice"/> ion_Binding_SOAP"> escriptionService"/> SOAP"> tionService"/> ement_Binding_SOAP">	DL=wsrp_v1_bindin	gs.wsdl'/	/>	Ì	

# Oracle Fusion Middleware 12c on SLES 12 SP3

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<ul> <li>- <definitions targetnamespace="urn:oasis:namestc:wsrp:v2:wsdl"> <import location="http://hpgen9-02:8889/wsrp-tools/portlets/wsrp2?WSDL=wsrp_v2_bindit         &lt;ul&gt;             &lt;li&gt;service name=" namespace="urn:oasis:namestc:wsrp:v2:bind" wsrp_v2_service"=""></import></definitions></li> <li>service name="WSRP_v2_ServiceDescription_Service" binding="bind:WSRP_v2_ServiceDescription_Binding_SOAP'&gt;             <ul></ul></li></ul>	ngs.wsdl	"/>	

	Mozilla Firefox			- •	×
base_domain (Or × Summary of Serv × WSRP Test Page	× http://hp/monitor × http://hp2?WSDL	× http://h	np1?WSE	)L ×	+
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Oracle WebCenter Portal WSRP Monitor 12.2.1.3.0		Refresh	Clear	E	nable

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vetogic Pasword Sign or view Public Portal: Sign or view Public Portal: Portal Browser - Mozilla Firefox Oracle Enterprise Manager * Portal Browser Portal Browser - Mozilla Firefox Oracle Enterprise Manager * Portal Browser Portal Sover All Portals Sort By Name  Create Portal @ No portals were found.			-				
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Image: Search     Image: Sea	URACLE	© 2009, 2017, Oracle and/or its affiliates. All rights reserved.	<b>()</b>	anguage	-	. •	
Portal © WebCenter Portal > Portal Browser   Portal Browser   Search Portals   Show All Portals ♥ Sort By Name ♥ Create Portal ♥   No portals were found.	Oracle Enterprise Manager 🗴 Portal Brov	wser × +					
Search Portals Show All Portals Sort By Name Create Portal   No portals were found.				₽ rites ▼	A Help	web	logic
Image: Second	vortal Browser						
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	Create Po	ortal - Mozilla Firefox _ = ×
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	ORACLE WebCenter Portal > Administration	Portals ▼ Favorites ▼   Help ▼ weblogic ▼
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	Portal Template: Portal	Title
		SUSE Demo
		Description
		Just for test.
		Keywords
		Portal şuse linux
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	Copyright © 2009, 2017, Oracle and/or its affiliates. All rights reserved.	

# Oracle Fusion Middleware 12c on SLES 12 SP3

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	* Title	SUSE Demo						- 1
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7	Portal Details							
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÷≣		s41aa3123_7791_4cs2_bc4c_6c0a0968333e						
	Members	1						
	Last Activity	2 minutes ago						
	Created	2 minutes ago by weblogic						

# e. Application: analytics-collector (URL:<u>http://host:8888/collector</u>)

Mozilla Firefox							
ytics-collector (Appli	× http://hpgen9gnostics.jsp × +						
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Analytics Collec	ator -						
Analytics Collect							
Collector Information							
ζ⊋ Refresh							
Configuration	Value						
Collector Default Port	31314						
Collector Max Port	31314						
Collector Server Name	localhost						
Broadcast Type	Multicast						
Cluster Enabled	0						
Cluster Name	0						
Partitioning Enabled	0						
Time Dimension for this year	✓						
Space Dimension Exists	✓						

End of Oracle WebCenter Portal.

Oracle SOA Suite

# 1. Installing Oracle SOA Suite 12c

1-1. Prerequisites:

Installation of Oracle SOA Suite requires:

- 1). Oracle Database 12cR2 (12.2.0.1.0) installed.
- 2). Oracle JDK 1.8.0\_131 and later installed.

1-2. Log in to the target system (SLES 12 64-bit OS) as a non-admin user. Download the Oracle SOA Suite 12c (12.2.1.3.0) Quick Start installer zip file from

<u>http://www.oracle.com/technetwork/indexes/downloads/index.html#middleware</u>. (**Note:** Please ensure the installation user has the proper permissions to install and configure the software.)

1-3. Go to the directory where you downloaded the installation program. Extract the contents of these .zip ("fmw\_12.2.1.3.0\_soaqs\_Disk1\_1of2.zip") files and launch the installation program by running 'java -jar fmw\_12.2.1.3.0\_soa\_quickstart.jar '

#### For the actual installation, follow the steps below:

1). Welcome page.

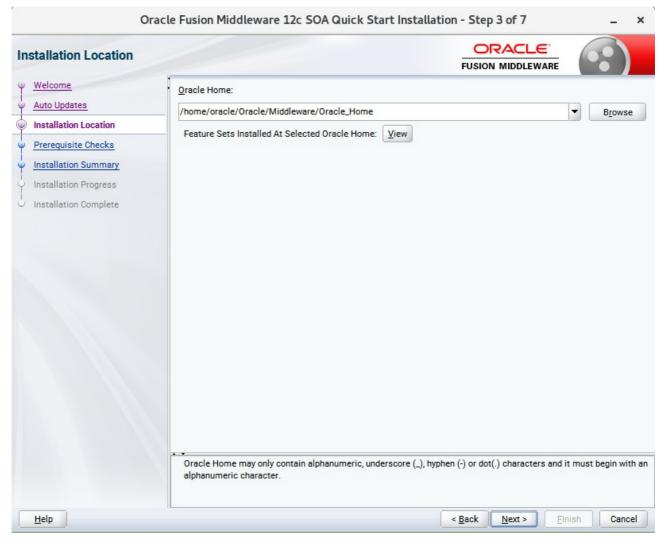
	Oracle Fusion Middleware 12c SOA Quick Start Installation - Step 1 of 7 _ ×
Welcome	
Welcome	
Auto Updates	Welcome to the Oracle Fusion Middleware 12c (12.2.1.3.0) SOA Suite Quick Start for Developers Installer.
Installation Location	Use this installer to create a new Oracle home or to extend an existing Oracle Home that contains
Prerequisite Checks	everything you need to evaluate or develop applications with the Oracle SOA Suite software.
Installation Summary	For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware documentation library.
↓ Installation Progress	Context-sensitive online help is available from the <u>H</u> elp button.
Installation Complete	
Help	Copyright © 1996, 2017, Oracle and/or its affiliates. All rights reserved.

This page welcomes you to the installation. Click **Next** to continue.

# 2). The Auto Updates page appears.

Orac	le Fusion Middle	eware 12c SOA Quick Start	Installation - Step 2 of 7	_ ×
Auto Updates				
<u>Welcome</u>				
Auto Updates	Skip <u>A</u> uto Upda			
Installation Location	O Select patches	s from <u>directory</u>		
Prerequisite Checks	Location:			Browse
Installation Summary	O Search My Ora	cle Support for Updates		
Installation Progress	<u>U</u> sername:			
Installation Complete	Password:			
		Proxy Settings	1	Test Connection
	Carrob		l	Tear aguineanan
	Search			
Help			< <u>B</u> ack <u>N</u> ext >	Finish Cancel

This page enables you to choose to automatically receive software updates for your components from Oracle Corporation. make your choices, then click **Next** to continue.



#### 3). The Installation Location page appears.

Specify the Oracle home location into which you want to install the product(s). Click Next to continue.

Oracle	Fusion	Middleware 12c SOA Quick Start Installation - Step 4 of 7	_ ×
Prerequisite Checks			
	-		
Auto Updates		100%	
Installation Location		Checking operating system certification	
Prerequisite Checks			
Installation Summary	~	Checking Java version used to launch the installer	
Installation Progress			
U Installation Complete			
	-		
	-		
	Ctop	Rerun Skip View Successful Tasks	View Log
	Stop	Termi 2006	VIEW LOG
	€	cking operating system certification	
		cking Java version used to launch the installer	
Help		< Back Next > Ein	ish Cancel

#### 4). The Prerequisites Checks page appears.

This pages shows you the progress of the system checking the prerequisites on your system prior to installation. If you are lacking any prerequisites, a message will appear telling you so. You do not need to take any actions on this page, though you can view the log from here. Click **Next** to continue.

# 5). The **Installation Summary** page appears.

stallation Summary					
Welcome Auto Updates Installation Location Prerequisite Checks Installation Summary Installation Progress Installation Complete	<ul> <li>Install Oracle Fusion Middleware 12c SOA Quick Start</li> <li>Installation Location         <ul> <li>Oracle Home Location: /home/oracle/Oracle/Midd Log File Location: /tmp/OraInstall2017-11-24_04-3</li> <li>Disk Space</li></ul></li></ul>	dleware/Oracle_ 0-10PM/install2 3.0	Home 017-11-24_04	-30-10PM.log	
Help	Back button.	< Back		Install	

This page shows you what components and features are about to be installed. If you need to make changes, click **Back**, otherwise, click **Install** to start the installation.

#### Oracle Fusion Middleware 12c SOA Quick Start Installation - Step 6 of 7 × ORACLE Installation Progress FUSION MIDDLEWARE Welcome 100% Auto Updates Installation Location 1 Prepare Prerequisite Checks 1 Сору Installation Summary 1 **Generating Libraries** Installation Progress 1 Performing String Substitutions Installation Complete 1 Linking 1 Setup 1 Saving the inventory 1 Post install scripts View Successful Tasks View Log View Messages Hardware and Software **Engineered to Work Together** <u>H</u>elp < Back Next > Finish Cancel

#### 6). The Installation Progress page appears.

This page shows you the progress of the installation, and will warn you if there are any problems. You can view messages and logs from this page, but typically no action is required here. When progress is complete, click **Next** (go to a Summary page). Alternatively, you can click **Finish**.

7). If you clicked **Next**, the **Installation Complete** page appears, showing you the components that have been installed.

Installation Complete		
Welcome Auto Updates Installation Location Prerequisite Checks Installation Summary Installation Progress Installation Complete	<ul> <li>Install Oracle Fusion Middleware 12c SOA Quick Start</li> <li>Installation Location         <ul> <li>Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home Log File Location: /tmp/Oralnstall2017-11-24_04-30-10PM/install2017-11-24_04-30-10PM.log</li> </ul> </li> <li>Feature Sets Installed Successfully         <ul> <li>Enterprise manager Plugin for SOA 12.2.1.3.0</li> <li>Enterprise manager Plugin for Service Bus 12.2.1.3.0</li> <li>Enterprise manager Plugin for BAM 12.2.1.3.0</li> <li>SOA Core Components 12.2.1.3.0</li> <li>Real-Time Integration Business Insight 12.2.1.3.0</li> <li>Service Bus 12.2.1.3.0</li> <li>Managed File Transfer Interface 12.2.1.3.0</li> <li>Stream Analytics 12.2.1.3.0</li> <li>SoA Foundation Designer 12.2.1.3.0</li> <li>SoA Foundation Designer 12.2.1.3.0</li> <li>Stream Analytics Designer 12.2.1.3.0</li> <li>Teterprise Debieduker Designer 13.2.1.2.0</li> </ul> </li> <li>Distrest Step(s):         <ul> <li></li></ul></li></ul>	

At the bottom of this screen, there is a checkbox to launch Oracle JDeveloper upon closing the installation wizard. This guide recommends that you uncheck this box. Click **Finish** to dismiss the installer.

# 2. Creating Oracle Database Schema through Repository Creation Utility(RCU)

2-1. Invoke the RCU packaged with your Quick Start installation to create schemas in your database. Do not download or use any other version of RCU to configure a database with Quick Start. Run **\$FMW\_HOME/oracle\_common/bin/rcu** and create required database schemas for Oracle SOA Suite.

ository Creation Utility			
<u>Velcome</u> treate Repository	<ul> <li>Specify a unique prefix for all sch schemas later.</li> </ul>	emas created in this session, a	so you can easily locate, reference, and manage
atabase Connection Details	O Select existing prefix:		
elect Components	<u>U</u> erect existing prenx.		
	Oreate new prefix:	SUSEDEMO	
chema Passwords		Alpha numeric only. Canno	ot start with a number. No special characters.
lap Tablespaces			
ummary	Component		Schema Owner
ompletion Summary	□ ✓ Oracle AS Repository		
	■ AS Common Sche		
		structure Services *	SUSEDEMO_STB
		n Security Services	SUSEDEMO_OPSS
	Oracle Enterpri		SUSEDEMO_ESS
	User Messagin	g Service	SUSEDEMO_UMS
	Audit Services		SUSEDEMO_IAU
	Audit Services		SUSEDEMO_IAU_APPEND
	Audit Services		SUSEDEMO_IAU_VIEWER
	Metadata Serv		SUSEDEMO_MDS
	Weblogic Servi	ces *	SUSEDEMO_WLS
	SOA Suite	2.40.116	
	SOA Infrastruc	ture	SUSEDEMO_SOAINFRA
	* Mandatory component. Ma	ndatory components cannot be	e deselected.

Select the **Create new prefix** radio button and provide a schema prefix (such as SUSEDEMO). Select the components as shown above, and ensure schema creation is successful.

# 3. Configuring a Compact Domain for Oracle SOA Suite using the Config Wizard

3-1. Go to **ORACLE\_HOME/oracle\_common/common/bin**. Set the environment variable **CONFIG\_JVM\_ARGS to -Dcom.oracle.cie.config.showProfile=true**. This will activate the compact domain option in the configuration wizard. Then launch the configuration wizard.

Example commands for this task are as follows:

cd ORACLE\_HOME/oracle\_common/common/bin CONFIG\_JVM\_ARGS=-Dcom.oracle.cie.config.showProfile=true export CONFIG\_JVM\_ARGS ./config.sh

#### Follow these steps:

1). On the Configuration Type screen, select **Create a new domain**, and enter the desired domain home path.

Fusion Middleware Configuration Wizard - Page 1 of 8					
Configuration Type					
Reate Domain					
A Templates					
Administrator Account					
Domain Mode and JDK					
Advanced Configuration					
Configuration Summary	What do you want to do?				
Configuration Progress	Create a new expanded domain				
End Of Configuration	Create a new compact <u>d</u> omain				
	Update an existing domain         Domain Location:       vracle/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain         Create a new domain containing only a single server (the Administration Server). This domain type cannot be a single server (the Administration Server). This domain type cannot be a single server (the Administration Server). This domain type cannot be a single server (the Administration Server). This domain type cannot be a single server (the Administration Server). This domain type cannot be a single server (the Administration Server). This domain type cannot be a single server (the Administration Server). This domain type cannot be a single server (the Administration Server). This domain type cannot be a single server (the Administration Server). This domain type cannot be a single server (the Administration Server). This domain type cannot be a single server (the Administration Server). This domain type cannot be a single server (the Administration Server). This domain type cannot be a single server (the Administration Server). This domain type cannot be a single server (the Administration Server). This domain type cannot be a single server (the Administration Server). This domain type cannot be a single server (the Administration Server). This domain type cannot be a single server (the Administration Server).	Brows			
	up to included additional Managed Servers and clusters.				
Help	< Back Next > Einish	Canc	el		

Click Next to continue.

# 2). The **Templates** screen appears.

	Fusion Middlewa	are Configuration Wizard -	Page 2 of 11			_ ×	
Templates					6		
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Filter Templates: Available Templat Basic WebLog Insight - 12.2.1 Insight SOA Ag Oracle B2B - 12 Oracle Enterpr	ic Server Domain - 12.2.1.3.0 [wlserv 1.3.0 [soa] gent - 12.2.1.3.0 [soa]	ver] * oa] .3.0 [em] I.3.0 [em]	reviously applied t		owse	
Help			< <u>B</u> ack <u>N</u>	ext > Einis	sh C	ancel	1

Use the **Templates** screen to select the templates you require. On the **Templates** screen, make sure **Create Domain Using Product Templates** is selected, then select the following template:

Oracle SOA Suite – 12.2.1.3.0[soa]

Selecting this template automatically selects the following as dependencies:

- Oracle Enterprise Manager 12.2.1.3.0 [em]
- Oracle WSM Policy Manager 12.2.1.3 [oracle\_common]
- Oracle JRF 12.2.1.3.0 [oracle\_common]
- WebLogic Coherence Cluster Extension 12.2.1.3.0 [wlserver]
- Oracle Service Bus 12.2.1.3.0 [osb]

Selecting this template automatically selects the following as a dependency:

- ODSI XQuery 2004 Components 12.1.3.0 [oracle\_common]
- WebLogic Advanced Web Services for JAX-RPC Extension -- 12.2.1.3.0 [oracle\_common]
- Oracle Enterprise Scheduler Service Basic 12.2.1.3.0 [oracle\_common]
- Oracle Enterprise Manager Plugin for ESS 12.2.1.3.0 [em]

Click **Next** to continue.

3). The High Availability Options screen appears.

	Fusion Middleware Configuration Wizard - F	Page 3 of 12		-	×
High Availability Options					
Create Domain         Templates         High Availability Options         Application Location         Administrator Account         Domain Mode and JDK         Database Configuration Type         Keystore         Advanced Configuration         Configuration Progress         End Of Configuration	Enable Automatic Service Migration (Non-Dynamic Clu     Database Leasing     Qonsensus Leasing     JTA Transaction Log Persistence (Non-Dynamic Clusters     Default Persistent Store     JDBC <u>T</u> Log Store  JMS Server Persistence     JMS File Store     JMS JDBC Store  Only JMS Server persistence can be configured for Dynamic Migration and JTA Transaction Logs Persistence cannot be wizard, they need to be configured manually.	only)	-		tion
Help		< <u>B</u> ack <u>N</u> ext >	<u> </u>	Cance	1

Keep the default value for Application location.Click **Next** to continue.

5	Fusion Middlewa	are Configuration Wizard - P	age 4 of 1	.2		-	×
Application Location						6	)
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Keystore Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain name: Domain location: Application location:	base_domain /home/oracle/Oracle/Middleware/O Oracle/Middleware/Oracle_Home/u				n B <u>r</u> ow	/se
Help			< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Can	cel

# 4). The **Application Location** screen appears.

Keep the default value for Application location.Click **Next** to continue.

	Fusion Middleware Configuration Wizard - Page 5 of 12					-	×
A	dministrator Account						
个	Create Domain	•					
个	Templates						
Ý	High Availability Options						
Ý	Application Location						
0	Administrator Account						
Ý	Domain Mode and JDK						
4	Database Configuration Type						
÷	Keystore	Name	weblogic				
*	Advanced Configuration	Password					
4	Configuration Summary	Confirm Password	••••••				
4	Configuration Progress						
9	End Of Configuration						
	Must be the same as the password. Password must contain at least 8 alphanumeric characters with at least one						e
	number or special character.						
	Help			< <u>B</u> ack <u>N</u> ext >	<u> </u>	Canc	el

# 5). The Administrator Account screen appears.

Enter the WebLogic Domain administration username and password. This information will be needed to access WebLogic Server Control and Fusion Middleware Control. Click **Next** to continue.

	Fusion Middleware Configuration Wizard - Page 6 of 12	-	×
Domain Mode and JDK			
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Keystore Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain Mode <ul> <li>Development</li> <li>Utilize boot.properties for username and password, and poll for applications to deploy.</li> <li>Production</li> <li>Require the entry of a username and password, and do not poll for applications to deploy.</li> </ul> JDK <ul> <li>Oracle HotSpot 1.8.0_144 /home/oracle/ORACLE_SW/Java/jdk1.8.0_144</li> <li>Other JDK Location:</li> </ul>	Bīows	e
Help	< Back Next > Finish	Canc	el

# 6). The Domain Mode and JDK screen appears.

Select the Domain Mode (either **Development** or **Production**) as shown above. Click **Next** to continue.

## 7). The **Database Configuration Type** screen appears.

	Fusion Middleware Configuration Wizard - Page 7 of 14 _ ×
Database Configuration Type	
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Keystore Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Specify AutoConfiguration Options Using:
Help	< <u>Back</u> <u>Next</u> > <u>Finish</u> Cancel

Select **RCU Data** to activate the fields. The **RCU Data** option instructs the Configuration Wizard to connect to the database and Service Table (STB) schema to automatically retrieve schema information for the schemas needed to configure the domain. Enter the RCU DB connection information, then click **Get RCU Configuration**. You should receive a success message. Click **Next** to continue.

	Fu	sion Middleware Co	nfigurat	ion Wizard	- Page	8 of 14	_ ×
JDBC Component Schema							
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK	• Ho:	ndor: Connection <u>P</u> arameters st Name: MS/Service:		Driver:	g		¥
Database Configuration Type     Component Datasources     JDBC Test     Keystore     Advanced Configuration	Ora	nema Owner: Incle RAC configuration for O Convert to ( ts to the data above will af	GridLink	O Convert to	RAC mul		onvert
Configuration Summary		Component Schema	DBMS/S	Host Name	Port	Schema Owner	Schema Password
		SOA EDN (XA)	SUSE	hpgen9-02	1521	SUSEDEMO_SOAINFRA	······
Configuration Progress		SOA EDN (Local)	SUSE	hpgen9-02	1521	SUSEDEMO_SOAINFRA	·
O End Of Configuration		ESS Schema	SUSE	hpgen9-02	1521	SUSEDEMO_ESS	
		LocalSvcTbl Schema	SUSE	hpgen9-02	1521	SUSEDEMO_STB	
		User Messaging Service	SUSE	hpgen9-02	1521	SUSEDEMO_UMS	
		SOA (XA)	SUSE	hpgen9-02	1521	SUSEDEMO_SOAINFRA	
Help					< [	<u>Back Next &gt; Fir</u>	nish Cancel

# 8). The JDBC Component Schema screen appears.

Our instructions assume each Repository schema uses the same password. If not, enter the correct schema passwords. Click **Next** to continue.

	Fus	ion M	iddleware Configuration Wizard - F	Page 9 of	14	-	×
JDBC Component Schema Test							
Treate Domain		Status	Component Schema		JDBC Conne	ction URL	
Templates		1	SOA EDN (XA)	jdbc	oracle:thin:@//hpge:	n9-02:1521/SUS	E 📍
High Availability Options		1	SOA EDN (Local)	jdbc	oracle:thin:@//hpge:	n9-02:1521/SUS	E
		1	ESS Schema	jdbc:	oracle:thin:@//hpge:	n9-02:1521/SUS	E Se
<u>Application Location</u>		1	LocalSvcTbl Schema	jdbc:	oracle:thin:@//hpge:	n9-02:1521/SUS	E
Administrator Account		1	User Messaging Service	jdbc:	oracle:thin:@//hpge:	n9-02:1521/SUS	E
Domain Mode and JDK		1	SOA (XA)	jdbc:	oracle:thin:@//hpge:	n9-02:1521/SUS	E
Database Configuration Type		1	SOA (Local)	jdbc	oracle:thin:@//hpge:	n9-02:1521/SUS	E
Component Datasources		1	WLS Schema	jdbc:	oracle:thin:@//hpge:	n9-02:1521/SUS	E
JDBC Test		1	ESS MDS Schema	jdbc:	oracle:thin:@//hpge:	n9-02:1521/SUS	E 👻
<u>Keystore</u>		est Se	ected Connections				
Advanced Configuration	Con	nection	Result Log				
Configuration Summary			Schema=SOA EDN (XA)				100
Configuration Progress			e.jdbc.xa.client.OracleXADataSource acle:thin:@//hpgen9-02:1521/SUSE				
End Of Configuration	User=	SUSED	EMO_SOAINFRA				
- Lite of configuration		word=** Test=IS					
	SQL	lest=IS	VALID				
		WK-642	213: Test Successful!				-
	4		300300				- E
Help				< <u>B</u> ack	<u>N</u> ext >	inish Ca	ncel

# 9). The JDBC Component Schema Test screen appears.

The tests are run and the results given. Ensure all test results are successful.Click **Next** to continue.

# 10). The **Keystore** screen appears.

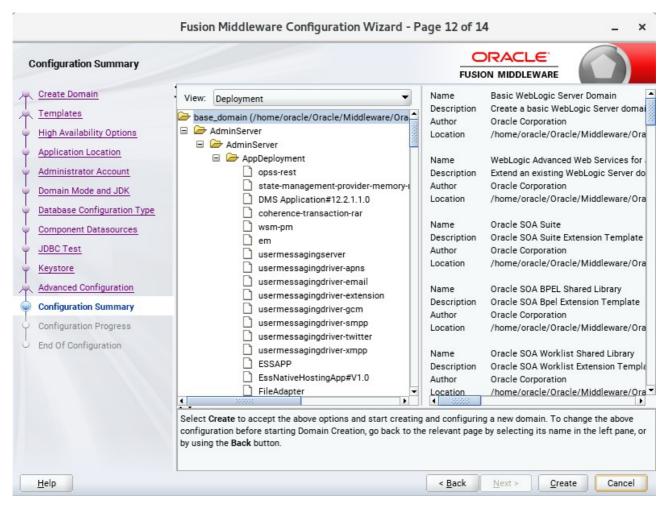
	Fusion Middle	ware Configuration Wizar	d - Page 10 of 14		_ ×
Keystore					
← <u>Create Domain</u> ← <u>Templates</u> ← High Availability Options	Store Key Name	ums/apns		- Ø	Dis <u>c</u> ard Changes
Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test	Alias		Trusted Certificate	5	
Keystore     Advanced Configuration     Configuration Summary     Configuration Progress     End Of Configuration	Alias	Private Key	Password	Identity	Certificate
Help			< Back	ext >	h Cancel

Accept the defaults and click **Next** to continue.

	Fusion Middleware Configuration Wizard - Page 11 of 14			-	×
Advanced Configuration			6		
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Keystore Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Administration Server Modify Settings Node Manager Configure Node Manager Iopology Add, Delete or Modify Settings for Managed Servers, Clusters, Virtual Targets an Dogmain Frontend Host Capture Configure Domain Frontend Host Deployments and Services Target to Servers or Clusters File Store Modify Settings	d Coherence			
Help	< <u>B</u> ack <u>N</u> ext >	<u> </u>		ancel	

#### 11). The Advanced Configuration screen appears.

On the Advanced Configuration screen, you do not need any advanced configuration for a compact domain. You can skip through the Advanced Configuration screen without selecting anything. Click **Next** to continue.



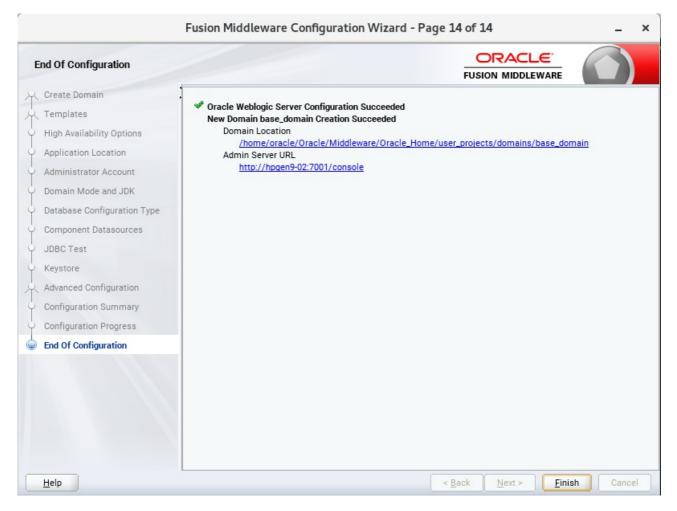
#### 12). The Configuration Summary screen appears.

Select Create to accept the above options and start creating and configuring a new domain.

	Fu	sion Middleware Configur	ation Wizard - Pa	ge 13 of 1	4		_ ×
Configuration Progress							
A Create Domain							
A Templates			100%				
High Availability Options	1	Copy Unprocessed Artifacts					
Application Location	1	OPSS Processing					
Administrator Account	1	OWSM Processing Security Processing					
Domain Mode and JDK	1	Artifacts Generation					
	1	String Substitution					
	-	Post Processing					
Component Datasources							
ý JDBC Test							
4 Keystore							
Advanced Configuration							
Configuration Summary							
Configuration Progress							
End Of Configuration							
Help				< <u>B</u> ack	<u>N</u> ext >	Finish	Cancel

13). The Configuration Progress screen appears.

Wait for this part of the configuration to complete. Depending on the location and performance of the Repository database, this process may take a few minutes. After the domain successful created, click **Next** to continue.



## 14). The End of Configuration screen appears.

Once you see: "Oracle Weblogic Server Configuration Succeeded", record the 'Domain Location' and 'Admin Server URL', then click Finish to dismiss the Configuration Wizard.

# 4. Verifying Oracle SOA Suite 12c Installation and Configuration

4-1. Check for the presence of installation log files in logs directory inside your Oracle Inventory directory. Also, check the domain server logs, which are located in the servers directory inside the domain home directory.

4-2. Navigate to your compact domain's home and start the administrator server.

#### Starting the Admin Server, go to the DOMAIN HOME/bin directory and run ./startWebLogic.sh.

Þ	oracle@hpgen9-02:/home/oracle/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/bin _	
File Edit Viev	w Search Terminal Tabs Help	
oracle@hpg	en9-02:/ho × oracle@hpgen9-02:/ho × oracle@hpgen9-02:/ho × oracle@hpgen9-02:/ho ×	0
Nov 24, 201 (Applicatio MessageRece Based Messa Nov 24, 201 racle/apps/ nt.> Nov 24, 201 ication: Es ty weblogic an.>	<pre>ionOnStart is ignored, because it is not supported by JCA-Based Message-Driven Bean.&gt; 7 6:05:01,992 PM GMT+08:00&gt; <warning> <ejb> <bea-010241> <the adapter="" bean="" bean.="" because="" connected="" ejbcomponent:="" en="" engine-ejb.jar)="" ge-driven="" has="" ignored,="" is="" it="" iver.="" jca="" message-driven="" messagerecei="" n:="" not="" property="" resource="" supported="" to="" usermessagingserver,="" weblogic.mdbs.suspendconnectiononstart=""> 7 6:05:02,180 PM GMT+08:00&gt; <warning> <oracle.mds> <bea-000000> <mds-01364: "="" 6:05:02,221="" 7="" apps="" custom"="" ess="" ess";="" first="" for="" gmt+08:00="" is="" mapping="" namespace="" oracle="" ovelapping="" pm="" the="" with=""> <warning> <ejb> <bea-010241> <the <="" adapter="" bean="" because="" by="" connected="" ejbcomponent:="" ess="" essappendpoi="" has="" ignored,="" is="" it="" jca-based="" message-driven="" native-ess-ejb.jar)="" not="" pre="" ramdbs.suspendconnectiononstart="" resource="" snativehostingapp,="" supported="" to=""></the></bea-010241></ejb></warning></mds-01364:></bea-000000></oracle.mds></warning></the></bea-010241></ejb></warning></pre>	for redu .nt(# Pro
n(Applicati MessageRec Based Mess Nov 24, 201	7 6:05:02,228 PM GMT+08:00> <warning> <ejb> <bea-010241> <the bean="" message-driven="" messageforwa<br="">on: usermessagingserver, EJBComponent: engine-ejb.jar) has connected to Resource Adapter jca/E eiver. Property weblogic.mdbs.suspendConnectionOnStart is ignored, because it is not supported age-Driven Bean.&gt; 7 6:05:02,232 PM GMT+08:00&gt; <notice> &lt;<u>WebLogicServer&gt; <bea-000360> <the in="" runn<="" server="" started="" u=""></the></bea-000360></u></notice></the></bea-010241></ejb></warning>	ngir I by
>de	osites to be loaded ploying 0 composites took 6 ms 7 6:05:02,261 PM GMT+08:00> <notice> &lt;<u>WebLogicServer&gt; <bea-000365> <server changed="" rl<="" state="" to="" u=""></server></bea-000365></u></notice>	INNI
qtz_JOB_DET EL Info]: 2 - 2.6.5.v20 EL Info]: 2 EL Info]: 2	pps env 7 6:05:02,707 PM GMT+08:00> <warning> <oracle.soa.scheduler> <bea-0000000> <no exists="" in="" row="" ta<br="">AILS for lock named: VerificationSessionPurgeJob-QLCKSEP-DEFAULT&gt; 017-11-24 18:05:02.847ServerSession(679527720)EclipseLink, version: Eclipse Persistence Se 170607-b3d05bd 017-11-24 18:05:02.848ServerSession(679527720)Server: 12.2.1.3.0 017-11-24 18:05:02.857ServerSession(679527720)/file:/home/oracle/Oracle/Middleware/Oracle es/oracle.soa.fabric_11.1.1/tracking-fabric.jar_soa_local_resiliency_persistence_unit login su</no></bea-0000000></oracle.soa.scheduler></warning>	ervic Home
	is running and accepting requests. Start up took 21979 ms, partition=DOMAIN	

You know that the administrator server is running when you see the following output:

Server state changed to RUNNING.

4-3. Checking Oracle SOA Suite 12c Product URLs.

1). Access to Enterprise Manager Console.

# Login Page:

Sign in - Oracle Enterprise Manager - Mozilla Firefox			-	•	>^
Sign in - Oracle Enterpris × +					
( ) 🔏   http://hpgen9-02:7001/em/faces/targetauth/emasLogin?target= 🧐 🖓   C   🔍 Search	合自	+	<b>^</b>		≡
SIGN IN TO <b>ORACLE ENTERPRISE MANAGER</b> FUSION MIDDLEWARE CONTROL 12c					
					E
Domain       Domain_base_domain         * User Name       weblogic         * Password          Login to Partition       Sign in					
	C		⊂L€	Ξ.	

# Home Page:

	base_domain (Oracle WebLogic	Domain	) - Oracle Ente	rprise Manager ·	• Mozilla Fire	fox			-	•	
oase_domain (Oracle We ×	<u>\</u> +										
) (i)   http://hpgen9-02:7001/	em/faces/as-weblogic-webLogicD	omainHc	90% C	Q Search		☆	Ê	+	⋒		
	lanager Fusion Middleware Control 12c				6	WebLogi	c Domair	n 💌 🗍	weblogi	•	1
base_domain ()						°∎ • N			Refresh 1 PM GM		
Servers 1 Up	Administration Server Name AdminS Host hpgen9										
Clusters	Listen Port 7001 Servers View Create Delete	Contro	d v Ey								
Clusters	Name	Status	Cluster	Machine	State			Health	n		
	AdminServer(admin)	+			Running			ок			
2 Down 48 Up 55 N/A											
Domain Partitions						_					
۶ ۲	Columns Hidd	en 34							Serve	ers 1 o	f

	Sign In - Mozilla Firefox			-	•	>
base_domain (Oracle We × Sign In	× +					
( ) 🔏   http://hpgen9-02:7001/soa/composer/faces/login	(90%)   C Q Search	☆ 🖻	Ŧ			Ξ
	SIGN IN TO SOA COMPOSER weblogic 					
			ORA	CLE		
Copyright 2004, 2017, Oracle and/or its affiliates. All rights reserved	ved. Accessibility					

#### Access to soa-webapps(soa composer) - URL:http://host:7001/soa/composer

base_domain (Oracle We × SC	A Composer × +				
) 🛈 🎤   http://hpgen9-02:7001/so	a/composer/faces/home?_adf.no-new 90%   C Q. Search	☆ 自	+ 1		1
ORACLE SOA Composer		Links 🔻	weblog	jic 👻	
eployment View	CaseManagementBaseDictionary.rules ×         Image: CaseManagementBaseDictionary.rules ×         Rule Set 1 v       View Properties         Rules       Image: CaseManagementBaseDictionary.rules ×         Rules       ImagementBaseDictionary.rules × <tr< th=""><th>2 -</th><th></th><th>Action</th><th>×</th></tr<>	2 -		Action	×
	Search By Alias  Click + above to create a rule  Click + above	onding output action			

	BPM Worklist - Mozilla Firefox			-	 >
base_domain (Oracle We × SOA Composer	× BPM Worklist × +				
🗲 🛈 🔏   http://hpgen9-02:7001/integration/worklistapp/fac	ces/login.jspx 90%   C 🔍 🔍 Search	☆ 倉	+	Â	≡
	SIGN IN TO BPM WORKLIST weblogic 				

Access to BPM worklistapp -	- URL:htt	p://host:7001/ii	ntegration/worklistar	pp

Dase_domain (Oracle we *	SOA Composer × BP	M Worklist × +		
🗲 🛈 🎤   http://hpgen9-02:700	1/integration/worklistapp/faces/home	.jspx 90% C Q Search	☆ 自 ↓ 合 ♥	2
ORACLE BPM Worklist			🕅 weblogic 🕶	
Views + 🖌 🛪 🛥	Actions v 🖉 🖾 Status 🖻 Title	Me & My Group All     Assigned     Number Creato		Priority
nbox	No data to display		, isolgiou	
My Tasks Initiated Tasks Administrative Tasks Views Due Soon High Priority Past Day Past Week Past Month Past Quarter		Please select a task to see the details		

# 2). Access to Administration Server Console

Login Page as shown below:					
Oracle WebLogic Server Administration Console	- Mozilla Firefox				• •
base_domain (Oracle We × SOA Composer × BPM Worklist	× Oracle WebLogic	Server 🗙	+		
< 🛈 🖋   http://hpgen9-02:7001/console/login/LoginForm.jsp  90%   C 🔍	Search	☆ 自	+	<b>n</b> V	≡
ORACLE WebLogic Server Administration Console 12c					
	Log in to work with th	Welcome He WebLogic Server d	omain		
	Password:	•••••	••	Login	
WebLogic Server Version: 12.2.1.3.0 Copyright (c) 1996;2017, Oracle and/or its affiliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.					

# Home Page:

	Home Page - base_don	nain - WLS Console - Mozilla Firefo	× _ •	ı >^
base_domain (Oracle We 🗴	SOA Composer × BPM	1 Worklist × Home P	°age - base_doma × +	
( ) / http://hpgen9-02:7002	1/console/console.portal?_nfpb=true8	90%   C Search	☆ 自 ∔ 余 ♡	≡
	ninistration Console 12c			Q
Change Center	😭 Home Log Out Preferences 📐 Record Help	Q	Welcome, weblogic Connected to: base_d	domain
View changes and restarts	Home			
Configuration editing is enabled. Future changes	Home Page			
will automatically be activated as you modify, add or delete items in this domain.	- Information and Resources			- 11
Domain Structure	Helpful Tools	General Information		- 11
base_domain ⊕ -Domain Partitions ⊕ -Environment ⊨ -Deployments ⊕ -Service ⊕ -Service ⊕ -Interoperability ⊕ -Diagnostics	Configure applications     Configure GridLink for RAC Data Source     Configure a Dynamic Cluster     Recent Task Statu     Set your console preferences     Oracle Enterprise Manager	Common Administration Task Descriptions     Read the documentation     Ask a question on My Oracle Support		E
	Domain Configurations	Resource Group Templates	Interoperability	_
	• Domain	Resource Group Templates	WTC Servers	- 11
How do I	Domain Partitions	Resource Groups	Jolt Connection Pools	- 11
Search the configuration	Domain Partitions     Partition Work Managers	Resource Groups	Diagnostics  • Log Files	- 11
Use the Change Center     Record WLST scripts		Deployed Resources	Diagnostic Modules	- 11
Change Console preferences	Environment  Servers	Deployments	Built-in Diagnostic Modules     Diagnostic Images	- 11
Manage Console extensions	Clusters	Services	Request Performance	- 11
Monitor servers	<ul> <li>Server Templates</li> </ul>	Messaging	Archives	- 11
System Status	<ul> <li>Migratable Targets</li> </ul>	<ul> <li>JMS Servers</li> </ul>	Context     SNMP	- 11
Health of Running Servers as of 6:16 PM	Coherence Clusters     Machines	<ul> <li>Store-and-Forward Agents</li> <li>JMS Modules</li> </ul>	Interceptors	- 11
Failed (0)	Virtual Hosts	Path Services		
Critical (0)	Virtual Targets	<ul> <li>Bridges</li> </ul>	Charts and Graphs	
Overloaded (0)	Work Managers	Data Sources	Monitoring Dashboard	
Warning (0)	Concurrent Templates	CONTRACTOR CONTRA		

	Sum	nmary of S	Servers - base_	.domain	- WLS Cons	ole - Mozilla F	irefox			-	•	>
base_domain (Oracle We 🗴	SOA Compo	oser	× BPM	Worklist	t	× Summa	ry of Servers ·	ba ×	+			
( i)   http://hpgen9-02:7001/d	onsole/conso	ole.portal?.	_nfpb=true&_p	C) (9	0% C	<b>Q</b> , Search		☆ 🛍	•	⋒		Ξ
ORACLE WebLogic Server Ad	ministration Cons	ole 12c									ç	⊇
Change Center	Home Log	g Out Preferenc	ces 📐 Record Help		(	2	W	elcome, web	logic Cor	nnected to: <b>b</b>	base_dom	nain
View changes and restarts	Home >Summ	ary of Servers										
Configuration editing is enabled. Future changes	Summary of S	ervers										
will automatically be activated as you modify, add or delete items in this domain.	Configuration	n Control										
Domain Structure	i											
base_domain ⊕-Domain Partitions ⊕-Environment Deployments			VebLogic Server that run				wn configuration.					
	Customize	e this table Itered - More C	columns Exist)									
	New	Clone Dele	ete					Showi	ng 1 to 1 of	1 Previous	s   Next	
	Nam	ne 🊕	Туре	•	Cluster	Machine	State	Health	Liste	en Port		
How do I	Adm	inServer(admin)	) Conf	igured			RUNNING	🗸 ок	7001			
Create Managed Servers	New	Clone Dele	ete					Showin	ng 1 to 1 of	1 Previous	Next	
Clone servers												Ц
Delete Managed Servers												_
Delete the Administration Server												
<ul> <li>Start and stop servers</li> </ul>												
<ul> <li>View objects in the JNDI tree</li> </ul>												
System Status	i i										)	
Health of Running Servers as of 6:17 PM												
Failed (0)												
Critical (0)												
Overloaded (0)												
Warning (0)	1											

# Viewing the summary of servers:

3). Connecting JDeveloper to the Compact Domain.

Launch Oracle JDeveloper with the appropriate command.

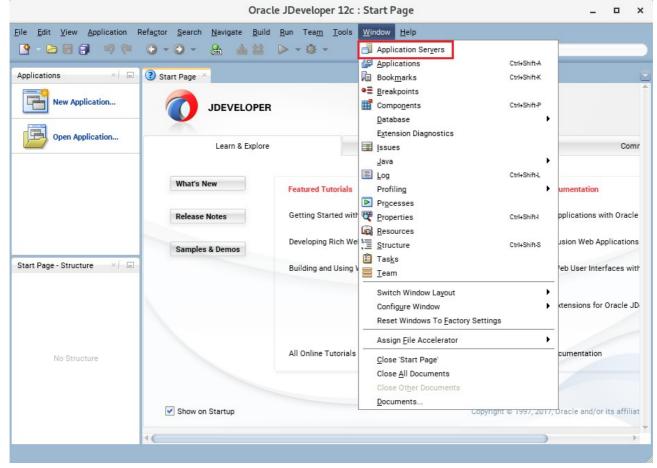
#### Follow these steps:

a1). Select Role.

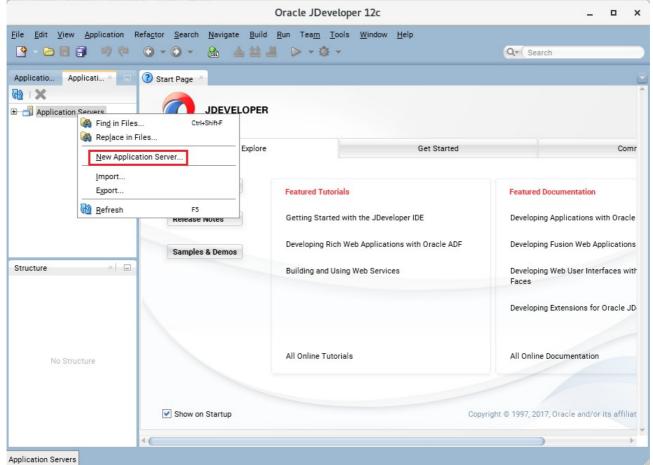
oracle@hpg	jen9-02:/home/oracle/Orac	le/Middleware/Oracle_Home/j	develope	er/jdev/bin	-		×
File Edit View Search Terminal Ta	bs Help						
oracle@hpgen9-02:/ho × orac	le@hpgen9-02:/ho ×	oracle@hpgen9-02:/ho ×	ora	cle@hpgen9-02:/ho		<u>n</u>	Ŧ
oracle@hpgen9-02:/home/oracle/0	racle/Middleware/Ora	cle_Home/jdeveloper/jdev	/bin>	./jdev			
Oracle JDeveloper 12c Release	12.2.1.3.0						
Copyright (c) 1997, 2017, Orac	le and/or its affili	ates. All rights reserve	ed.				
		Select Role	×				
	Select the role that matches your roles using the Roles page in pref	requirements. You can also change erences.					
	<u>R</u> ole:						
	Studio Developer (All Feature Includes all features.	es)	^				
	O Customization Developer						
	Configures the product for cu	ustomizing metadata.	385				
	O Database Developer		333				
	Includes only features for co	re database development.					
	<ul> <li>Java Developer Includes only features for co</li> </ul>	- Investment					
	Java EE Developer	re Java development.					
	Includes only features for co	re Java EE development.	-				
	<ul> <li>Always prompt for role selection</li> </ul>						
		ОК	Cancel				
							-+)

Select the role that matches your requirements. Click **OK** to continue.

# a2). Select **Window** from the top menu, and then choose **Application Servers** from the drop-down menu. This will open the Application Server Navigator in the left-hand pane.

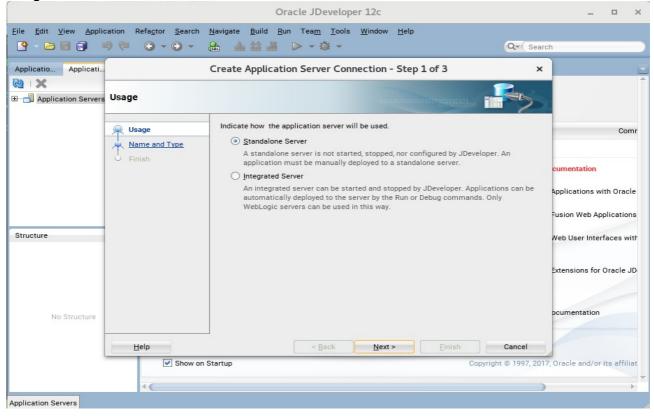


# a3). Right-click on **Application Servers** in the Application Server Navigator. Select **New Application Server** from the drop-down menu to launch the **Create Application Server Connection** wizard.



#### a4). Creating Application Server Connection steps as shown below.

#### Usage screen.



#### Name and Type screen.

and the second sec	cation Refa <u>c</u> tor <u>S</u> earch	Navigate     Build     Run     Team     Tools     Window     Help       Image: Market Marke	_ O X
Applicatio Applicati	Name and Type	Create Application Server Connection - Step 2 of 3 ×	
	Name and Type	Specify a unique name and type for the connection. The name must be a valid Java identifier. Create connection in: IDE Connections	Comr
Structure		<u>C</u> onnection Name: susetest001 Connection <u>T</u> ype: WebLogic 12.x ▼	Applications with Oracle Fusion Web Applications Web User Interfaces with
No Structure	Help	< <u>Back Next &gt; Einish Cancel</u>	Extensions for Oracle JD
Application Servers	Show on	Startup Copyright © 1997, 201	7, Oracle and/or its affiliat

Image: Specify a username and password to authenticate the connection.       Configuration         Image: Mame and Type:	Image: Specify a username and password to authenticate the connection.       Image: Specify a username and password to authenticate the connection.       Image: Specify a username and password to authenticate the connection.         Image: Specify a username and password to authenticate the connection.       Image: Specify a username and password to authenticate the connection.       Image: Specify a username and password to authenticate the connection.         Image: Specify a username and password: Image: Specify a username and password: Image: Specify a username: Specify a username and password: Image: Specify a username and password: I		9 @ O - O -		
Authentication Server Authentication           Usage         Specify a username and password to authenticate the connection.         Con           Name and Type         Authentication         Username:         weblogic           V Configuration         Test         Finish         Password:         Papplication           Structure         Finish         Entish         Entish         Extensions for Oracle J	Authentication     Visage     Name and Type     Authentication     Visage     Structure     No Structure     Help     Enish     Authentication     Structure     No Structure     Help     Structure     Help <th>Applicatio Applicati</th> <th></th> <th>Create Application Server Connection - Step 3 of 6</th> <th>×</th>	Applicatio Applicati		Create Application Server Connection - Step 3 of 6	×
Structure     Useriante     useri	Name and Type     Username:       Authentication     weblogic       Configuration     Password:       Test		Authentication		
Structure       Configuration       cumentation         Structure       Finish       Password:       Applications with Oracle J         Structure       Finish       Structure       Structure       Structure	Configuration       Password:       Applications with Oracl         Test       Finish       -usion Web Application         Structure       Web User Interfaces with Extensions for Oracle J         No Structure       Extensions for Oracle J         Help       < Back				Comr
Structure Test Finish Applications with Oracle J	Isst			weblogic	cumentation
Structure Enish	Structure       Finish       =usion Web Application         No Structure       Extensions for Oracle J         Help       < Back				Inclinations with Oracle
Structure Web User Interfaces with Extensions for Oracle J	Structure No Structure Help < Back Next > Einish Cancel				
Extensions for Oracle J	No Structure				Fusion Web Applications
	No Structure	Structure			Web User Interfaces with
No Structure ocumentation	Help     < Back     Next >     Einish     Cancel				Extensions for Oracle JD
No Structure Documentation	Help     < Back     Next >     Einish     Cancel				
		No Structure			ocumentation
Help < Back Next > Finish Cancel	Show on Startup Copyright © 1997, 2017. Oracle and/or its affilia		<u>H</u> elp	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Cancel	
			•		) ,

# Authentication screen.

# Configuration screen.

		Oracle JDeveloper 12c	_ 🗆 ×
and the second s	cation Refa <u>c</u> tor <u>S</u> earch		
			ch
Applicatio Applicati		Create Application Server Connection - Step 4 of 6	
<u>کا</u> ا			Î
⊞ <mark>-</mark> Application Servers	Configuration		
	Authentication	WebLogic Server connections use a host name and port to establish a connection. The Domain of the target will be verified WebLogic Hostname (Administration Server):	Comr
	© Configuration	hpgen9-02	cumentation
	• <u>Test</u>	Port:         SSL Port:           7001         7002	Applications with Oracle
	<u>Finish</u>	Always use SSL WebLogic Domain:	Fusion Web Applications
Structure		base_domain	Web User Interfaces with
			Extensions for Oracle JD
No Structure			ocumentation
	<u>H</u> elp	< Back Next > Finish Cancel	
	Show on	Startup Copyright © 1997, 201	7, Oracle and/or its affiliat
Application Servers			ŵ

# Oracle Fusion Middleware 12c on SLES 12 SP3

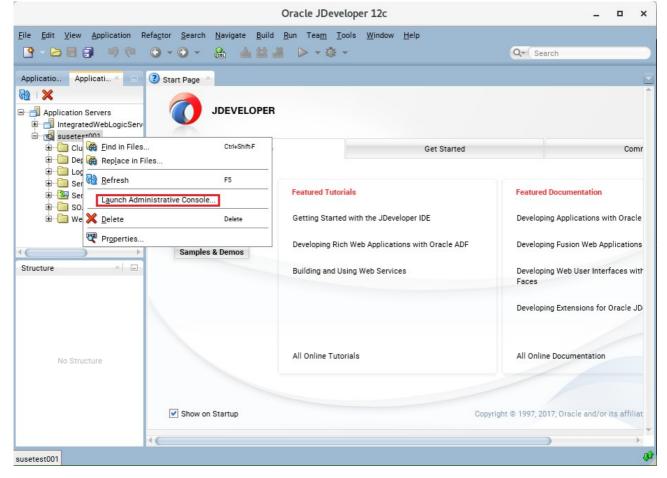
## Test screen.

pplicatio Applicati		Create Application Server Connection - Step 5 of 6	: ]
2 ↓ X → Application Servers	Test		2
tructure	Varge Name and Type Authentication Configuration Test	Click Test Connection to determine if the information specified successfully establishes a connection with the application server.           Test Connection           Status:           Testing HTTP Authentication           Testing JSR-160 Runtime           Testing JSR-160 DomainRuntime           Testing JSR-160 Edit           Testing JSR-160 Edit           Testing JSR-88           Testing JSR-88           Testing Server MBeans Model           Testing App Controller	Com cumentation Applications with Oracle Fusion Web Applications Web User Interfaces wit
No Structure		Testing JSR-88-DEP-MGR success Testing JSR-88-DEP-MGR-LOCAL success 12 of 12 tests successful.	Extensions for Oracle JI

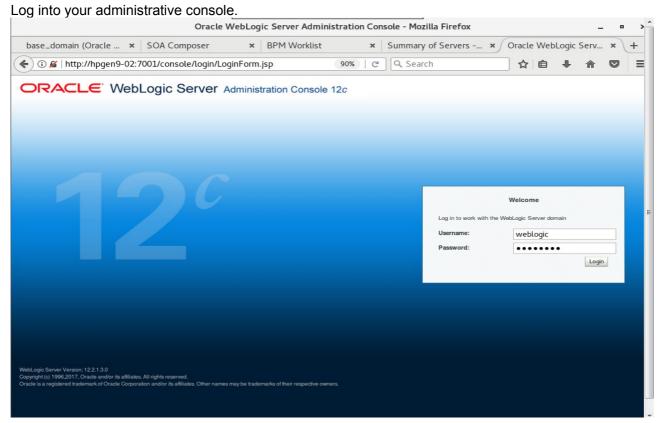
#### Finish screen.

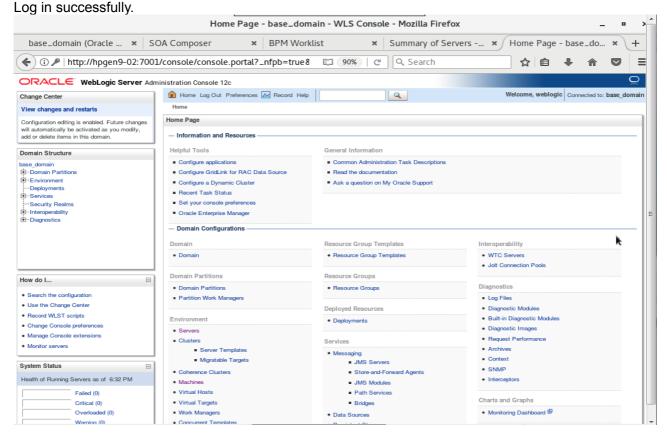
		Oracle JDeveloper 12c	_ 🗆 ×
		Navigate Build Run Team Tools Window Help	rch
Applicatio Applicati		Create Application Server Connection - Step 6 of 6	:
Image: Image	Finish		
	A Usage	You have completed creating the connection.	Comr
	Name and Type	To open your connection, expand the connection node in the Application Server Navigator.	
	Configuration		cumentation
	Test		Applications with Oracle
	Finish		Fusion Web Applications
Structure			Web User Interfaces with
			Extensions for Oracle JD
No Structure			ocumentation
	<u>H</u> elp	< Back Next > Finish Cancel	
	Show on S	Startup Copyright © 1997, 20	17, Oracle and/or its affiliat
	< <u>(</u>		
Application Servers			÷.

a5). Verifying Your Connection. Expand the connection node beside **Application Servers** in the Application Server Navigator. You should see your domain listed by the **Connection Name** you specified on the **Name and Type** screen. Right-click on your domain's name and choose **Launch Administrative Console**.



# Oracle Fusion Middleware 12c on SLES 12 SP3





End of Oracle SOA Suite.

*Cracle Access Manager* 

# 1. Installing Oracle Identity and Access Management 12cPS3 software

1-1. Prerequisites:

Installation of Oracle Identity and Access management requires:

1). Oracle Database 12cR2 (12.2.0.1.0) installed.

(**Note**: Please make sure that database initialization parameter **OPEN\_CURSORS** greater than or equal to 800; Login to database server as **root user** and execute the SQL command: "alter system set open\_cursors=1600 scope=spfile;" then restart the database)

SQL> alter system set ope	en_cursors=	1600 scope=sp	file;
System altered.			
SQL> shutdown immediate; Database closed. Database dismounted. ORACLE instance shut down SQL> startup ORACLE instance started.	1.		
Total System Global Area Fixed Size Variable Size Database Buffers Redo Buffers Database mounted. Database opened. SQL> show parameter open	19247928 4362079432 1.5771E+10 47857664	bytes bytes bytes	
NAME		TYPE	VALUE
open_cursors SQL> ]		integer	1600

2). Oracle JDK 1.8.0\_131 and later installed.

1-2. Log in to the target system (SLES 12 64-bit OS) as a non-admin user. Download the Oracle Identity and Access Management 12cPS3 (12.2.1.3.0) generic installer .zip file from <a href="http://www.oracle.com/technetwork/indexes/downloads/index.html#middleware">http://www.oracle.com/technetwork/indexes/downloads/index.html#middleware</a>. (Note: Please ensure the installation user has the proper permissions to install and configure the software.)

1-3. Go to the directory where you downloaded the installation program. Extract the contents of these .zip ("fmw\_12.2.1.3.0\_idmqs\_Disk1\_1of2.zip" and "fmw\_12.2.1.3.0\_idmqs\_Disk1\_2of2.zip") files and launch the installation program by running '**java -jar fmw.......jar** '

#### For the actual installation, follow the steps below:

# 1). Welcome page appears.

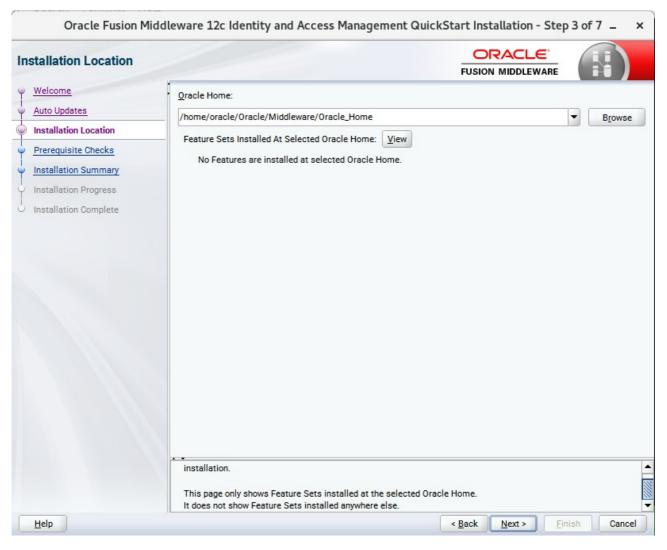
/elcome	
Welcome	1
Auto Updates	Welcome to the Oracle Fusion Middleware 12c (12.2.1.3.0) IDM Suite Quick Start Installer.
Installation Location Prerequisite Checks	Use this installer to create a new Oracle home that contains everything you need to manage privileges and protect applications with the Oracle IDM Suite software for production or evaluation.
Installation Summary	For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware documentation library.
Installation Progress	Context-sensitive online help is available from the Help button.
Installation Complete	

This page welcomes you to the installation. Click **Next** to continue.

Oracle Fusion Mid	dleware 12c Identity and Access Managem	ent QuickStart Installation - Step 2 of 7 🔔 🗙 🗙
Auto Updates		
Auto Updates	Skip Auto Updates   Select patches from directory   Location:   Search My Oracle Support for Updates   Username:   Password:   Proxy Settings	
Help		< Back Next > Finish Cancel

# 2). The Auto Updates page appears.

This screen helps to quickly and easily search for the latest software updates, including important security updates, via your My Oracle Support account. Make your choices, then click **Next** to continue.



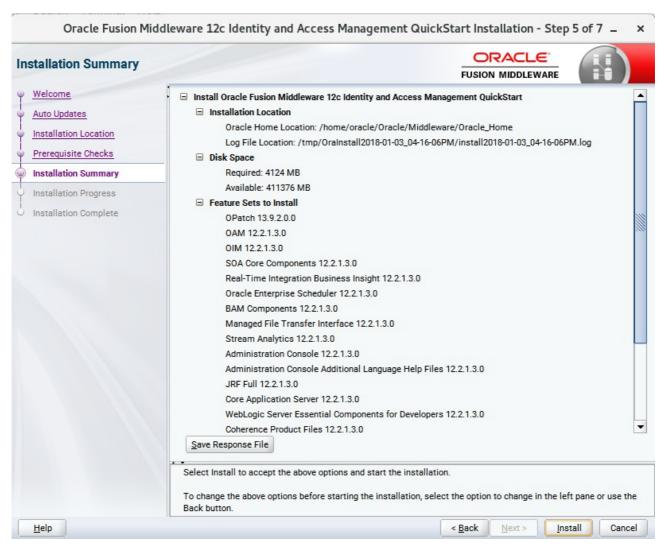
#### 3). The Installation Location page appears.

Specify the Oracle home location into which you want to install the product(s). Click **Next** to continue.

Oracle Fusion Middl	eware 1	2c Identity and Access Management QuickStart Installation - Step 4 o	of7_×
Prerequisite Checks			
<u>Welcome</u> <u>Auto Updates</u>		100%	
	<b>v</b>	Checking operating system certification Checking Java version used to launch the installer	
Installation Complete			
	Stop	Rerun Skip ✓ View Successful Tasks	View <u>L</u> og
		cking operating system certification cking Java version used to launch the installer	
Help		< <u>B</u> ack <u>N</u> ext > <u>F</u> inish	Cancel

#### 4). The Prerequisites Checks page appears.

This pages shows you the progress of the system checking the prerequisites on your system prior to installation. If you are lacking any prerequisites, a message will appear telling you so. You do not need to take any actions on this page, though you can view the log from here. Click **Next** to continue.



#### 5). The Installation Summary page appears.

This page shows you what components and features are about to be installed. If you need to make changes, click **Back**, otherwise, click **Install** to start the installation.

#### Oracle Fusion Middleware 12c Identity and Access Management QuickStart Installation - Step 6 of 7 \_ × ORACLE Installation Progress FUSION MIDDLEWARE Welcome 100% Auto Updates Installation Location Prepare Prerequisite Checks 1 Сору Installation Summary Generating Libraries Installation Progress Performing String Substitutions Installation Complete Linking $\checkmark$ Setup 1 Saving the inventory 1 Post install scripts View Successful Tasks View Messages View Log Hardware and Software **Engineered to Work Together** Help < Back Next > Finish Cancel

#### 6). The Installation Progress page appears.

This page shows you the progress of the installation, and will warn you if there are any problems. You can view messages and logs from this page, but typically no action is required here. When progress is complete, click **Next** (go to a Summary page). Alternatively, you can click **Finish**.

7). If you clicked **Next**, the **Installation Complete** page appears, showing you the components that have been installed.

stallation Complete		
Welcome	□ Install Oracle Fusion Middleware 12c Identity and Access Management QuickStart	
Auto Updates	Installation Location	
	Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home	
Installation Location	Log File Location: /tmp/OraInstall2018-01-03_04-16-06PM/install2018-01-03_04-16-06PM.log	
Prerequisite Checks	Feature Sets Installed Successfully	
Installation Summary	OPatch 13.9.2.0.0	
Installation Dragram	OAM 12.2.1.3.0	
Installation Progress	OIM 12.2.1.3.0	
Installation Complete	SOA Core Components 12.2.1.3.0	
	Real-Time Integration Business Insight 12.2.1.3.0	
	Oracle Enterprise Scheduler 12.2.1.3.0	
	BAM Components 12.2.1.3.0	
	Managed File Transfer Interface 12.2.1.3.0	
	Stream Analytics 12.2.1.3.0	
	Administration Console 12.2.1.3.0	
	Administration Console Additional Language Help Files 12.2.1.3.0	
	JRF Full 12.2.1.3.0	
	Core Application Server 12.2.1.3.0	
	Next Step(s):	
	1. Use the Repository Creation Utility to create the required schemas in a supported database.	
	2. Use the Configuration Wizard to create a domain using the required domain configuration templates.	
	See the product installation quide for more information.	
	Oracle Fusion Middleware 12c Identity and Access Management QuickStart installation completed success	fully

This screen displays the Installation Location and the Feature Sets that are installed. Review this information and click **Finish** to close the installer.

# 2. Configuring the Oracle Access Manager Domain

2-1. Creating Database Schema through Repository Creation Utility for OAM.

Repository Creation Utility (RCU) is available with the Oracle Fusion Middleware Infrastructure 12c distribution. Run **\$FMW\_HOME/oracle\_common/bin/rcu** and create required database schemas for Oracle Access Manager.

IN MIDDLEWARE sily locate, reference, and manage the
sily locate, reference, and manage the
number. No special characters.
Schema Owner
DEV_STB
ESS
DEV_OPSS
UMS
DEV_IAU
DEV_IAU_APPEND
DEV_IAU_VIEWER
DEV_MDS
DEV_WLS
OIM
DEV_OAM

Select the **Create new prefix** radio button and specify a custom prefix(such as SUSEDEMO). Select the **Oracle Access Manager** schema, this action automatically selects the schemas as dependencies, and ensure the schema creation is successful.

#### 2-2. Configuring a Domain for Oracle Access Manager(OAM) using the Config Wizard

In order to complete the configuration. Run the config wizard using **config.sh** located in the **ORACLE\_HOME/oracle\_common/common/bin** directory.

#### Follow these steps:

1). On the Configuration Type screen, select **Create a new domain**, and enter the desired domain home path.

Fusion Middleware Configu			ration Wizard - Page 1 of 8			-	×	
Configuration Type						_		
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	What do you want © Create a new of Update an exist Domain Location: Create a new doma	domain sting domain racle/Oracle/Mido	Ileware/Oracle_Hon	ne/user_proje	cts/domains/base	e_domain	Brows	e
Help				< <u>B</u> ack	<u>N</u> ext >	<u>Finish</u>	Cance	el

Click **Next** to continue.

## 2). The **Templates** screen appears.

	Fusion Middlewa	are Configuration Wizard -	Page 2 of 12	_ ×
Templates				
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Filter Templates: Available Templat Basic WebLog Insight - 12.2.1 Insight SOA Ag Oracle B2B - 1 Oracle B2B - 1 Oracle B2B - 1 Oracle B2B Cli Oracle B2B Cli Oracle Access Oracle Identity Oracle Enterpr Oracle Enterpr	Include all <u>s</u> elected templates tes jic Server Domain - 12.2.1.3.0 [wlserve 1.3.0 [soa] gent - 12.2.1.3.0 [soa]	)a] ] 2.0.[am]	I templates
<u>H</u> elp			< Back Next > Fin	ish Cancel

On the Templates screen, make sure **Create Domain Using Product Templates** is selected, then select the template **Oracle Access Management Suite - 12.2.1.3.0 [idm]**.

Selecting these templates automatically selects the following as dependencies:

- Oracle Enterprise Manager 12.2.1.3.0 [em]
- Oracle JRF 12.2.1.3.0 [oracle\_common]
- WebLogic Coherence Cluster Extension 12.2.1.3.0 [wlserver]

You can also select any of the Oracle products listed in the following table. You do not need to select all of these templates, and you can always run the configuration wizard again to add products to your domain later. Click **Next** to continue.

	Fusion Middlewa	are Configuration Wizard - Page 3 of 12	_ ×
Application Location			
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain name: Domain location: Application location:		Browse
<u>H</u> elp		< <u>B</u> ack <u>N</u> ext > <u>Finish</u>	Cancel

3). The Application Location screen appears.

Keep the default value for Application location.Click **Next** to continue.

	Fusion Middlev	ware Configuration W	/izard - Page 4 of 12	_ ×
Administrator Account				
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Name Password Confirm Password Must be the same as number or special ch	s the password. Password m	ust contain at least 8 alphanumeric characters w	/ith at least one
Help			< <u>B</u> ack <u>N</u> ext > <u>Finish</u>	Cancel

# 4). The Administrator Account screen appears.

Enter the WebLogic Domain administration username and password. This information will be needed to access WebLogic Server Control and Fusion Middleware Control. Click **Next** to continue.

Fusion Middleware Configuration Wizard - Page 5 of 12						
Domain Mode and JDK						
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain Mode	B <u>r</u> ows	e			
Help	< Back Next > Finish	Cance	el			

# 5). The Domain Mode and JDK screen appears.

Select **Production** in the **Domain Mode** field and select the **Oracle HotSpot JDK** in the **JDK** field. Click **Next** to continue.

## 6). The Database Configuration Type screen appears.

	Fusion Middleware Configur	ation Wiza	rd - Page	6 of 1	.2		_ ×
Database Configuration Type							
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Specify AutoConfiguration Options Us RCU Data <u>Manual Config</u> Enter the database connection details Services component in the Repositor the datasources required for component Vendor: Oracle Connection Parameters O Host Name: hpgen9-02 DBMS/Service: suse Schema Owner: DEV_STB Get RCU Configuration Connection Result Log Successfully Done. Click "Next" button to continue.	uration s using the sch y Creation Utilit ents in this dor Driver: Connection URI Port:	ty. The Wizar main. *Oracle's D	ials corr d uses t	esponding to his connection hin) for Service	Common In n to automa	
Help			< <u>E</u>	Back	<u>N</u> ext >	Einish	Cancel

Select **RCU Data** to activate the fields. The **RCU Data** option instructs the Configuration Wizard to connect to the database and Service Table (STB) schema to automatically retrieve schema information for the schemas needed to configure the domain. Enter the RCU DB connection information, then click **Get RCU Configuration**. You should receive a success message. Click **Next** to continue.

	Fu	sion Middleware Co	nfiguration V	Vizard - Page	e 7 of 12		_ ×
JDBC Component Schema							
Create Domain	Ver	ndor:	<b>D</b>	river:			
Application Location		Connection Parameters		<u>U</u> RL String			
Administrator Account	Ho	st Name:					
Domain Mode and JDK	DB	MS/Service:	P	ort:			
Database Configuration Type     Component Datasources	Scl	nema Owner:	S	chema Password			
JDBC Test     Advanced Configuration     Configuration Summary		cle RAC configuration for ( Convert to C	GridLink O C	onvert to RAC mu		O Don't conv	vert
Configuration Progress		Component Schema	DBMS/Service	1	Port	Schema Owner	Schema Password
C End Of Configuration		LocalSvcTbl Schema	SUSE	hpgen9-02	1521	DEV_STB	
	后	WLS Schema	SUSE	hpgen9-02	1521	DEV_WLS_RUN	
	T	OAM Infrastructure	SUSE	hpgen9-02	1521	DEV_OAM	
		OPSS Audit Schema	SUSE	hpgen9-02	1521	DEV_IAU_APPEI	
		OPSS Audit Viewer Sche	SUSE	hpgen9-02	1521	DEV_IAU_VIEWE	
		OPSS Schema	SUSE	hpgen9-02	1521	DEV_OPSS	
Help					Back Ne	xt > Finis	h Cancel

# 7). The JDBC Component Schema screen appears.

Our instructions assume each Repository schema uses the same password. If not, enter the correct schema passwords. Click **Next** to continue.

		Fu	sion M	iddleware Configuration Wizard - I	Page 8 of 12 _	×
J	DBC Component Schema Tes	t				
平	Create Domain		Status	Component Schema	JDBC Connection URL	
人	Templates		1	LocalSvcTbl Schema	jdbc:oracle:thin:@//hpgen9-02:1521/SU	SE
	Application Location		1	WLS Schema	jdbc:oracle:thin:@//hpgen9-02:1521/SU	SE
	Administrator Account		1	OAM Infrastructure	jdbc:oracle:thin:@//hpgen9-02:1521/SU	SE
T			1	OPSS Audit Schema	jdbc:oracle:thin:@//hpgen9-02:1521/SU	SE
Y	Domain Mode and JDK		1	OPSS Audit Viewer Schema	jdbc:oracle:thin:@//hpgen9-02:1521/SU	SE
Ý	Database Configuration Type		1	OPSS Schema	jdbc:oracle:thin:@//hpgen9-02:1521/SU	SE
ų.	Component Datasources					
	JDBC Test					
	Advanced Configuration					
Ţ	Configuration Summary		<u>T</u> est Se	lected Connections		
4	Configuration Progress	Cor	nnection	Result Log		
5	End Of Configuration	Driv URL Use Pas SQL	er=oracl =jdbc:or r=DEV_S sword=* . Test=S	Schema=LocalSvcTbl Schema e.jdbc.OracleDriver acle:thin:@//hpgen9-02:1521/SUSE TB ******** ELECT 1 FROM DUAL 213: Test Successful!		
	Help				< Back Next > Einish Ca	incel

# 8). The JDBC Component Schema Test screen appears.

The tests are run and the results given. Ensure all test results are successful.Click **Next** to continue.

	Fusion Middleware Configuration Wizard - Page 9 of 21	_ ×
Advanced Configuration		
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Clusters Server Templates Coherence Clusters Machines Virtual Targets Partitions Configuration Progress	Administration Server Modify Settings     Node Manager Configure Node Manager     Configure Node Manager     Add, Delete or Modify Settings for Managed Servers, Clusters, Virtual Targets and Coherence     Dgmain Frontend Host Capture Configure Domain Frontend Host     Deployments and Services Target to Servers or Clusters	
Help	< Back Next > Finish	Cancel

# 9). The Advanced Configuration screen appears.

On the Advanced Configuration screen, select:

- Administration Server
- Node Manager
- Topology

Then, click **Next** to continue.

	Fusion Middl	eware Cor	nfiguration	n Wizard - P	age 10 of	21		-	×
Administration Server									
Create Domain         Templates         Application Location         Administrator Account         Domain Mode and JDK         Database Configuration Type         Component Datasources         JDBC Test         Advanced Configuration         Managed Servers         Clusters         Server Templates         Coherence Clusters         Machines         Virtual Targets         Partitions         Configuration Progress	Server Name Listen Address Listen Port Enable SSL SSL Listen Port Server Groups	Unspecified	94	y not contain ar	1y:,=*?%/. < Back	_cloned.	Finish	Cance	
Пер					< Back	<u>M</u> ext >	Finish	Cance	81

### 10). The Administration Server screen appears.

Use the **Administration Server** screen to select the IP address of the host. Select the drop-down list next to **Listen Address** and select the IP address of the host where the Administration Server will reside, or use the system name or DNS name that maps to a single IP address. Click **Next** to continue.

11). Configuring **Node Manager** screen appears.

	Fusion Middleware C	Configuration Wizard - P	age 11 of 21		- ×
Node Manager					
Create Domain         Templates         Application Location         Administrator Account         Domain Mode and JDK         Database Configuration Type         Component Datasources         JDBC Test         Advanced Configuration         Administration Server         Node Manager         Managed Servers         Clusters         Server Templates         Coherence Clusters         Machines         Virtual Targets         Partitions         Configuration Summary         Configuration Progress	Manual Node Manage Node Manager Credentials Username: Password: Confirm Password: Must be the same as the pa number or special character	ocation  re/Oracle_Home/user_project  r Setup  weblogic			Browse
Help			< <u>B</u> ack <u>N</u> ext >	Einish	Cancel

Select **Per Domain Default Location** as the Node Manager type, then specify Node Manager credentials. Click **Next** to continue.

Managed Servers						
Create Domain	Add 🗈 C	lone X Delete			🔊 Dis <u>c</u>	ard Changes
Application Location     Administrator Account	Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Group
Domain Mode and JDK	oam_server1	147.2.207.194 💌	14100		Disabled	OAM-MGD
Database Configuration Type	oam_policy_mgr1	147.2.207.194	14150		Disabled	OAM-POLIC
<u>Advanced Configuration</u> <u>Administration Server</u> <u>Node Manager</u> Managed Servers     Clusters	0000					
Administration Server Node Manager Managed Servers Clusters						
Administration Server Node Manager Managed Servers						
Administration Server Node Manager Managed Servers Clusters Server Templates						
Administration Server Node Manager Managed Servers Clusters Server Templates Coherence Clusters						
Administration Server Node Manager Managed Servers Clusters Server Templates Coherence Clusters Machines						
Administration Server Node Manager Managed Servers Clusters Server Templates Coherence Clusters Machines Virtual Targets						

### 12). The Managed Servers screen appears.

On the **Managed Servers** screen, new Managed Servers named: *oam\_server1* and *oam\_policy\_mgr1* are automatically created. In the **Listen Address** drop-down list, select the IP address of the host on which the Managed Server will reside or use the system name or DNS name that maps to a single IP address. The default **Server Groups** have already been selected for each server. Click **Next** to continue.

### 13). The **Clusters** screen appears.

	Fusion Middleware	e Configura	tion Wizard -	Page 13 of 23		_ ×
Clusters						
Templates	•	elete			🔊 Di	s <u>c</u> ard Changes
Application Location     Administrator Account	Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS Port	Dynamic Server Groups
	oam_cluster_1			0	0	Unspecified 💌
Domain Mode and JDK     Database Configuration Type	oam-policy_cluster_1			0	0	Unspecified 🔻
<u>Component Datasources</u> <u>JDBC Test</u> <u>Advanced Configuration</u> <u>Administration Server</u> <u>Node Manager</u> <u>Managed Servers</u> <b>Clusters</b>						
<ul> <li>Server Templates</li> </ul>						
Upnamic Servers						
Assign Servers to Clusters						
<u>Coherence Clusters</u>						
w Machines						
Virtual Targets						
Partitions	-					
Help				< <u>B</u> ack N	ext > Einish	Cancel

On the Clusters screen:

- 1. Click Add.
- 2. Specify *oam\_cluster\_1* in the Cluster Name field.
- 3. Leave the Cluster Address field blank.
- 4. Repeat these steps to create oam-policy\_cluster\_1 cluster.

### Click Next to continue.

(Note: Configuring a non-clustered setup on a single node, skip this screen.)

	Fusion Middleware C	Configuration Wizard -	Page 14 of 23	_ ×
Server Templates				
Create Domain Templates	· Add X Dele	te		🖗 Discard Changes
Application Location     Administrator Account	Name	Listen Port	SSL Listen Port	Enable SSL
Domain Mode and JDK				
<u>Database Configuration Type</u> <u>Component Datasources</u>				
UDBC Test				
Advanced Configuration				
Administration Server				
<u>Node Manager</u> Managed Servers				
Clusters				
Server Templates				
Dynamic Servers				
<u>Assign Servers to Clusters</u>				
<u>Coherence Clusters</u>	_ <u></u>			
w Machines				
Virtual Targets				
Partitions				
Help			< <u>B</u> ack <u>N</u> ext >	Einish Cancel

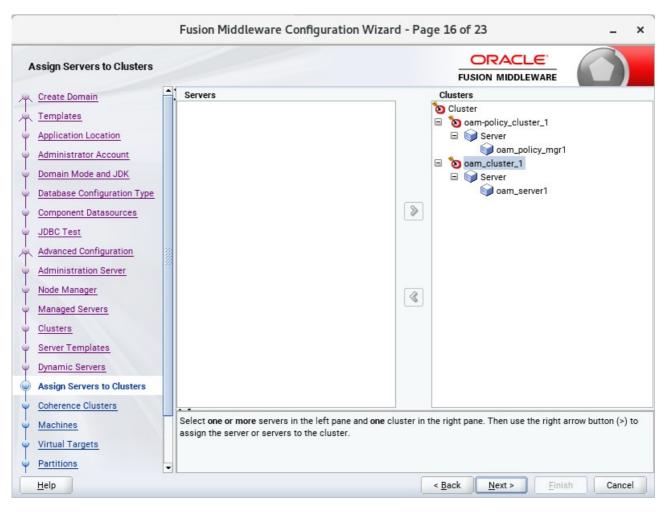
14). The Server templates screep appears.

If you are creating dynamic clusters for a high availability setup, use the Server Templates screen to define one or more server templates for domain. To continue configuring the domain, click **Next**.

		Fusion Mid	dleware Co	onfiguration	n Wizard -	Page 15 of	23		_ ×
Dynamic Servers									
Templates								🔊 Dis <u>c</u> ard	Changes
Application Location     Administrator Account     Densis Made and IDV		Cluster Name	Server Name Prefix	Server Template	Dynamic Cluster Size	Machine Name Match Expression	Calculated Machine Names	Calculated Listen Ports	Dynamic Cluster
Domain Mode and JDK     Database Configuration Type		oam_cluster_	Disabled	Unspecifi	Disabled				
Component Datasources		oam-policy_c	Disabled	Unspecifi	Disabled				
JDBC Test     Advanced Configuration     Administration Server     Node Manager     Managed Servers     Clusters     Server Templates     Dynamic Servers	200000								
<u>Assign Servers to Clusters</u> Coherence Clusters									
Machines									
<u>Virtual Targets</u> <u>Partitions</u>	-								
Help						< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

### 15). The **Dynamic Servers** screep appears.

If you are creating dynamic clusters for a high availability setup, use the Dynamic Servers screen to configure the dynamic servers. If you are not configuring a dynamic cluster, click **Next** to continue configuring the domain.



16). The Assign Servers to Clusters screen appears.

Use the **Assign Servers to Clusters** screen to assign Managed Servers to a new configured cluster. Click **Next** to continue.

	Fusion Middleware Configuration	Wizard - Page 17 of 23	_ ×
Coherence Clusters			
Create Domain		<b></b>	Dis <u>c</u> ard Changes
Application Location	Cluster Name	Cluster Listen Po	rt
Administrator Account	defaultCoherenceCluster	7574	
Domain Mode and JDK			
Database Configuration Type			
<u>Component Datasources</u>			
UDBC Test			
Advanced Configuration	<b>*</b>		
Administration Server			
Wode Manager			
Managed Servers			
Clusters			
Server Templates			
Dynamic Servers			
Assign Servers to Clusters			
Coherence Clusters			
Wachines			
Virtual Targets			
Partitions	-		
Help		< <u>Back</u> <u>N</u> ext > <u>Finis</u>	h Cancel

# 17). The **Coherence Clusters** screen appears.

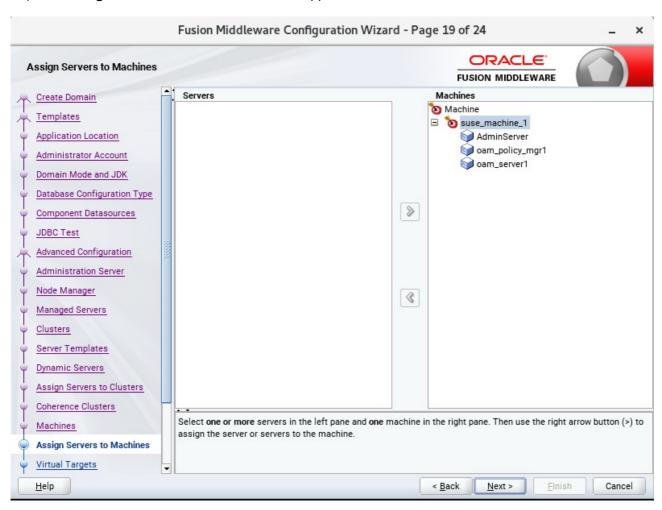
Leave the default port number as the Coherence cluster listen port. After configuration, the Coherence cluster is automatically added to the domain. Click **Next** to continue.

	Fusion Middleware Configu	ration Wizard - Page 18 of 24	_ ×
Machines			
Create Domain           Templates           Application Location	Machine Unix Machine		Discard Changes
Administrator Account     Domain Mode and JDK	Name	Node Manager Listen Address	Node Manager Listen Port
Database Configuration Type	suse_machine_1	localhost 👻	5556
<u>Component Datasources</u> <u>JDBC Test</u>			
Advanced Configuration Administration Server			
<u>Node Manager</u>			
<u>Managed Servers</u> Clusters			
Server Templates			
<u>Dynamic Servers</u> <u>Assign Servers to Clusters</u>			
<u>Coherence Clusters</u> <u>Machines</u>			
Assign Servers to Machines			
Virtual Targets	-		
Help		< <u>B</u> ack <u>N</u> ex	t > Einish Cancel

# 18). The **Machines** screen appears.

To create a new machine so that Node Manager can start and stop servers. Click **Next** to continue.

Oracle Fusion Middleware 12c on SLES 12 SP3



19). The Assign Servers to Machines screen appears.

Use the **Assign Servers to Machines** screen to assign the Managed Servers to the new machine you just created. Click **Next** to continue.

	Fusion Middleware	Configuration W	/izard - Page 2	20 of 24		_ ×
Virtual Targets						
Templates	Add X De	lete			🔊 Dis <u>c</u> ard	Changes
Application Location     Administrator Account	Name	Target	Host Names	URI Prefix	Explicit Port	Port Offset
Domain Mode and JDK     Database Configuration Type						
<u>Component Datasources</u>						
Advanced Configuration						
Administration Server     Node Manager						
Managed Servers     Clusters						
Server Templates						
Dynamic Servers     Assign Servers to Clusters						
<u>Coherence Clusters</u> Machines						
<u>Assign Servers to Machines</u>						
Virtual Targets			< <u>B</u>	ack <u>N</u> ext >	<u> </u>	Cancel

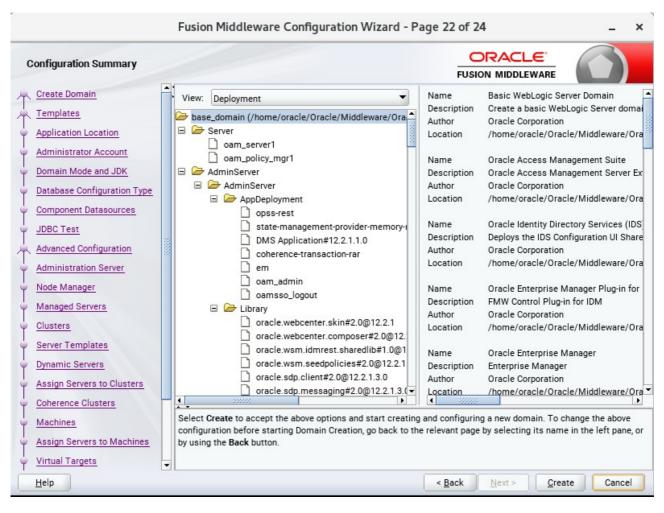
### 20). The Virtual Targets screep appears.

If you have a WebLogic Server Multitenant (MT) environment, you use the Virtual Targets screen to add or delete virtual targets. For this installation (not a WebLogic Server MT environment), you do not enter any values; just select **Next**.

## 21). The **Partitions** screep appears.

Fusion	iddleware Configuration Wizard - Page 21 o	f 24 _ ×
Partitions	FI	
Templates	id Delete	🔊 Dis <u>c</u> ard Changes
Application Location	Name	
Administrator Account		
Domain Mode and JDK		
<u>Database Configuration Type</u> <u>Database Configuration Type</u> <u>Component Datasources</u>		
↓ JDBC Test		
Advanced Configuration		
<u>Administration Server</u>		
Vode Manager		
<u>Managed Servers</u> Ulusters		
Server Templates		
Dynamic Servers		
Assign Servers to Clusters		
Coherence Clusters     Machines		
Assign Servers to Machines		
Virtual Targets		
Help	< <u>B</u> ack	<u>N</u> ext > <u>Finish</u> Cancel

The Partitions screen is used to configure partitions for virtual targets in WebLogic Server Multitenant (MT) environments. Select **Next** without selecting any options.



### 22). The Configuration Summary screen appears.

Select Create to accept the above options and start creating and configuring a new domain.

	Fus	ision Mid	dleware (	Configurat	tion Wizard	- Page	23 of 2	24		-	×
Configuration Progress										6	)
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Dynamic Servers Assign Servers to Clusters Coherence Clusters Machines		OPSS Pro Security Artifacts String Su	Processing Generation Ibstitution	tifacts		100%					
Assign Servers to Machines Virtual Targets	-					<	Back	<u>N</u> ext >	<u>F</u> inish	Car	ncel

### 23). The Configuration Progress screen appears.

Wait for this part of the configuration to complete. Depending on the location and performance of the Repository database, this process may take a few minutes. After the domain successful created, click **Next** to continue.

	Fusion Middleware Configuration Wizard - Page 24 of 24 _ ×
End Of Configuration	
<ul> <li>Create Domain</li> <li>Templates</li> <li>Application Location</li> <li>Administrator Account</li> <li>Domain Mode and JDK</li> <li>Database Configuration Type</li> <li>Component Datasources</li> <li>JDBC Test</li> <li>Advanced Configuration</li> <li>Administration Server</li> <li>Node Manager</li> <li>Managed Servers</li> </ul>	<ul> <li>Oracle Weblogic Server Configuration Succeeded New Domain base_domain Creation Succeeded Domain Location /home/oracle/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain Admin Server URL http://147.2.207.194:7001/console</li> </ul>
Clusters Server Templates Dynamic Servers Assign Servers to Clusters Coherence Clusters Machines Assign Servers to Machines Virtual Targets Help	< Back Next > Einish Cancel

24). The End of Configuration screen appears.

Once you see: "Oracle Weblogic Server Configuration Succeeded", record the '**Domain Location**' and '**Admin Server URL'**, then click **Finish** to dismiss the Configuration Wizard.

# 3. Verifying Oracle Access Manager(OAM) Installation and Configuration

3-1. Check for the presence of installation log files in logs directory inside your Oracle Inventory directory. Also, check the domain server logs, which are located in the servers directory inside the domain home directory.

3-2. Starting the Node Manager and the Admin Server.

# Starting the Node Manager, go to the DOMAIN\_HOME/bin directory and run 'nohup ./startNodeManager.sh > nm.out&'

2	-		oracle(	@hpgen9-	02:/hom	e/oracle/Ora	cle/Middlew	/are/Oracle_H	lome/user_pro	ojects/	/domains/ba	se_domain/bi	n.		×
File	Edit	View	Search	Terminal	Tabs	Help									
0	racle@	hpgen9	-02:/ho.	×	oracle(	@hpgen9-02:	/ho ×	oracle@hp	gen9-02:/ho	×	oracle@	hpgen9-02:/ho	×		-
		ogen9-( ger.sh			e/0rac	cle/Middlew	ware/Orac	le_Home/use	r_projects	/doma	iins/base_	domain/bin>	nohup	./st	art
[1]	31922	4													
						:le/Middlew > stdout	ware/Oracl	le_Home/use	r_projects	/doma	ins/base_	_domain/bin>	nohup	: ign	ori
												_domain/bin> /domains/ba			
nana	iger <sup></sup>														
												ddleware/0 cle common,			
arty	/ant·	-contr:	ib-1.0	b3.jar:/	home/c	oracle/Orac	cle/Middle	eware/Oracl	e_Home/wls	erver	/modules/	features/o	racle.w	ls.co	mmo
						acle/Midd acle.wls.co			lserver/	:/hom	ne/oracle/	Oracle/Mid	ileware	/Orac	le_
⊦ /h	iome/c	oracle,	ORACL	E_SW/Jav	a/jdk1	1.8.0_144/1	bin∕java∽	-server -Xm				ephemeralD			
												home=/home, dleware/0ra			
oroj	ects/	/domai	ns/bas	e_domain	/confi	g/fmwconf:	ig/jps-co	nfig-jse.xm	l -Dcommon	.comp	onents.ho	ome=/home/o	racle/0	racle	/Mī
												ome/oracle/( classloade			
:hCl	assLo	bader -	-Djava	.securit	y.poli	cy=/home/o	pracle/0ra	acle/Middle	ware/Oracl	e_Hom	ne/wlserve	er/server/l:	b/webl		
												lodeManager ddleware/0		ome/u	cor
pro	jects	s/doma:	ins/ba	se_domai	.n/node	emana <mark>ge</mark> r/no	odemanage	r.domains>							501
												rsion to 12 ties to '/l			Ora
:le/	Middl	leware,	/Oracl	e_Home/u	iser_pr	ojects/dor	nains/base	e_domain/nd	demanager/	nodem	ianager.pi	<pre>roperties'&gt;</pre>			
						> <info> <l manager/nc</l </info>			: /home/or	acle/	Oracle/Mi	ddleware/0	racle_H	lome/u	ser
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		sPhrase				surity once	internal		erviceCont	ovtMa	nagorImpl	getContext			
												o directly		rite	boo
									gement int			from 1/hem	(ara-1	o /0 m	
Jal	2, 4	2010 8	12:58		-00:00>			lemanager (	omigurati	on pr	operities	from '/home	e/oract	e/ura	cte

Starting the Admin Server, go to the DOMAIN\_HOME/bin directory and run ./startWebLogic.sh.

	oracle@hpgen9-	-02:/home/oracle/Oracle/Mide	lleware/Oracle_Home/use	er_projects/dom	nains/base_domain/bin	>
File Edit View	Search Terminal	l Tabs Help				
oracle@hpgen	9-02:/ho ×	oracle@hpgen9-02:/ho >	oracle@hpgen9-02:	/ho × c	oracle@hpgen9-02:/ho ×	Δ.
<pre><jan &="" 2018="" 5,="" sold1=""> <the &="" 2018="" 5,="" <jan="" res="" rollbackwebgs="" sold1=""> <the &="" .="" 2018="" 5,="" anaged.bean.de="" bea="" jan="" managed="" ng="" res="" showwebgatete=""> 2018.01.05 20 Jeue: 'weblog te/Oracle/Mide -cache.config 2018.01.05 20 Jeue: 'weblog figurableCache Jan 5, 2018 &amp; Sold1 5, 2018</the></the></jan></pre>	8:17:41,214 PM source for bund atesToPrevious 3:17:41,214 PM source for bund amplate" cannot 3:17:41,945 PM uplicate> <jsfj an class type of 17:48.944/144. ic.kernel.Defai dleware/Oracle_ g.xml" :17:48.965/144. ic.kernel.Defai dleware/Oracle_ g.xml" :17:49,009 PM ection with the 3:17:50,465 PM 3:17:50,523 PM 3:17:50,653 PM Ver "AdminServe 3:17:50,655 PM D1 for protocol 3:17:50,657 PM D1 for protocol 3:17:50,657 PM</jsfj 	GMT+08:00> <warning> &lt; dle "oracle.security.ar State" cannot be found GMT+08:00&gt; <warning> &lt; dle "oracle.security.ar</warning></warning>	<pre>coracle.as.jmx.frame h.wlst.management.Fo coracle.as.jmx.frame h.wlst.management.Fo cjavax.enterprise.re ed 'TreeRefresh' has Refresh with oracle SE 12.2.1.3.0 <info> aber=n/a): Loaded ca dules/oracle.wsm.com SE 12.2.1.3.0 <info> aber=n/a): Created ca cog Management&gt; <bea cic Service.&gt; WebLogicServer&gt; <bea WebLogicServer&gt; <bea WebLogicServer&gt; <bea WebLogicServer&gt; <bea WebLogicServer&gt; <bea-002613> o, http.&gt; WebLogicServer&gt; <bea WebLogicServer&gt; <bea-002613> o, http.&gt; WebLogicServer&gt; <bea< pre=""></bea<></bea-002613></bea </bea-002613></bea </bea </bea </bea </bea </info></info></pre>	work.Message undationConf work.Message undationConf source.webco already bee .security.fe (thread=[ST che configur mon/wsm-agen (thread=[ST ache factory -170027> <th -000365&gt; <se -000365&gt; <se MX Resilienc -000329&gt; <st oduction mod <channel "d<br="">-000360&gt; <th< td=""><td>LocalizationHelper&gt; &lt; igMBeanResources" wit LocalizationHelper&gt; &lt; igMBeanResources" wit entainer.jsf.managedbe en registered. Replac d.admin.sts.ui.model. ANDBY] ExecuteThread: ation from "jar:file: t-core.jar!/oracle-ws ANDBY] ExecuteThread: com.tangosol.net.Ext e server has successf erver state changed to erver state changed</td><td>J2EE JMX-4 h key "oar J2EE JMX-4 h key "oar an&gt; <jsf.r TreeRefres '2' for ( /home/orad m-coherend '2' for ( ensibleCon ully estal ADMIN.&gt; RESUMING Servers rver Admin ing on 14 UNNING mod</jsf.r </td></th<></channel></st </se </se </th 	LocalizationHelper> < igMBeanResources" wit LocalizationHelper> < igMBeanResources" wit entainer.jsf.managedbe en registered. Replac d.admin.sts.ui.model. ANDBY] ExecuteThread: ation from "jar:file: t-core.jar!/oracle-ws ANDBY] ExecuteThread: com.tangosol.net.Ext e server has successf erver state changed to erver state changed	J2EE JMX-4 h key "oar J2EE JMX-4 h key "oar an> <jsf.r TreeRefres '2' for ( /home/orad m-coherend '2' for ( ensibleCon ully estal ADMIN.&gt; RESUMING Servers rver Admin ing on 14 UNNING mod</jsf.r 

You know that the administrator server is running when you see the following output:

-----Server state changed to RUNNING.

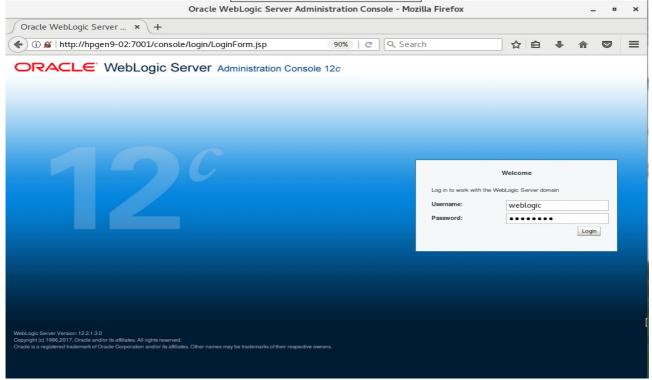
\_\_\_\_\_

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3-3. Checking Oracle Identity and Access Management 12c Product URLs.

### 1). Access to Administration Server Console

### Login Page:



## Home Page:

	Home Page - base_dor	nain - WLS Console	- Mozilla Firefo	2			-	•	×
Home Page - base_doma ×	+								
(i) ▶   http://hpgen9-02:7001	L/console/console.portal?_nfpb=true	8 🖾 90%   C	Q. Search		☆自	+	⋒		≡
	ninistration Console 12c								õ
Change Center	Ame Log Out Preferences 🔤 Record Help		9	w	elcome, weblo	gic Conr	nected to:	base_do	omain
View changes and restarts	Home								
Click the Lock & Edit button to modify, add or delete items in this domain.	Home Page								
Lock & Edit	- Information and Resources								- 18
Release Configuration	Helpful Tools	General Information							
Release configuration	<ul> <li>Configure applications</li> </ul>	<ul> <li>Common Administrat</li> </ul>							
Domain Structure	<ul> <li>Configure GridLink for RAC Data Source</li> </ul>	<ul> <li>Read the documentat</li> </ul>							
base domain	<ul> <li>Configure a Dynamic Cluster</li> </ul>	<ul> <li>Ask a question on My</li> </ul>	y Oracle Support						
Domain Partitions	<ul> <li>Recent Task Status</li> </ul>								
Environment	<ul> <li>Set your console preferences</li> </ul>								
Deployments     Services	<ul> <li>Oracle Enterprise Manager</li> </ul>								
Security Realms	- Domain Configurations								_ 10
Interoperability									
Diagnostics	Domain	Resource Group Temp	lates	Interoperab	oility				
	Domain	<ul> <li>Resource Group Terr</li> </ul>	nplates	<ul> <li>WTC Set</li> </ul>	rvers				
				Jolt Con	nection Pools				
	Domain Partitions	Resource Groups							
	Domain Partitions	Resource Groups		Diagnostics	5				
How do I	Partition Work Managers			<ul> <li>Log Files</li> </ul>	l .				
now do i		Deployed Resources		<ul> <li>Diagnost</li> </ul>	ic Modules				
Search the configuration	Environment	<ul> <li>Deployments</li> </ul>		Built-in E	Diagnostic Modul	es			
Use the Change Center	Servers			<ul> <li>Diagnost</li> </ul>	ic Images				- 11
<ul> <li>Record WLST scripts</li> </ul>	Clusters	Services		<ul> <li>Request</li> </ul>	Performance				- 11
Change Console preferences	<ul> <li>Server Templates</li> </ul>	Messaging		<ul> <li>Archives</li> </ul>					- 11
Manage Console extensions	<ul> <li>Migratable Targets</li> </ul>	<ul> <li>JMS Servers</li> </ul>		<ul> <li>Context</li> </ul>					- 11
Monitor servers	Coherence Clusters	Store-and-Fo		<ul> <li>SNMP</li> </ul>					
	Machines	<ul> <li>JMS Modules</li> </ul>		<ul> <li>Intercept</li> </ul>	ors				- 11
System Status	Virtual Hosts	Path Service	8						
Retrieving Health Data	Virtual Targets	<ul> <li>Bridges</li> </ul>		Charts and	Graphs				
Failed (0)	Work Managers	Data Sources		Monitorir	ng Dashboard 🗐				- 11
	Concurrent Templates								

	Summary of Serve	ers - base_o	domain - WLS Cons	ole - Mozilla Fir	efox		_	•	×
Summary of Servers - ba ×	+								
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	ninistration Console 12c							ç	$\supseteq$
Change Center	🟦 Home Log Out Preferences 🔼	Record Help		۹.	Wel	come, weblogic	onnected to:	base_dom	nain
View changes and restarts	Home >Summary of Servers								
Click the Lock & Edit button to modify, add or	Summary of Servers								
delete items in this domain.	Configuration Control								
Lock & Edit									-18
Release Configuration	A server is an instance of WebLogi	c Server that runs	in its own Java Virtual Machin	e (JVM) and has its own	configuration.				- 18
	This page summarizes each server	that has been co	nfigured in the current Webl ogi	c Server domain	-				- 17
Domain Structure	The page summarizes caution to		ngaloa in no oaron rroocog	o o o o o o o o o o o o o o o o o o o					- 14
base_domain ⊕-Domain Partitions	52								
Environment									114
Deployments     Services	Customize this table								114
Security Realms	Servers (Filtered - More Column	s Exist)							118
Interoperability     Diagnostics	Click the Lock & Edit button in the	e Change Center f	to activate all the buttons on th	is page.					
	New Clone Delete					Showing 1 to 3	of 3 Province	e   Nevt	
						-			
	Name 🐟	Туре	Cluster	Machine	State	Health	Listen Po	ort	111
	AdminServer(admin)	Configured		suse_machine_1	RUNNING	🛩 ок	7001		
How do I	oam_policy_mgr1	Configured	oam-policy_cluster_1	suse_machine_1	SHUTDOWN	Not reachable	14150		
Create Managed Servers	oam_server1	Configured	oam_cluster_1	suse_machine_1	SHUTDOWN	Not reachable	14100		
Clone servers	New Clone Delete					Showing 1 to 3	of 3 Previou	s   Next	
Delete Managed Servers     Delete the Administration Server									411
Start and stop servers									
View objects in the JNDI tree									
System Status									
Health of Running Servers as of 8:19 PM									
Failed (0)									

#### Viewing the summary of servers:

Verify that the Admin Server can connect to the node manager running on your machine. Environments -> Machines -> <your machine> -> Monitoring. The status should show: Reachable

	Settings for sus	e_machine_1 - ba	se_domain -	WLS Co	nsole - Me	ozilla Firefox				-	•	×
Settings for suse_machin ×	+											
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Change Center	A Home Log Out Prefe	erences 📐 Record Help		٩			Welcome	, weblog	ic Conn	ected to:	base_do	omain
View changes and restarts	Home >Summary of Server	s >Summary of Environment >Su	immary of Machines >s	use_machine	_1							
Click the Lock & Edit button to modify, add or	Settings for suse_maching	ie_1										
delete items in this domain.	Configuration Monitor	ing Notes										
Lock & Edit Release Configuration	Node Manager Status	Node Manager Log										
Domain Structure	This page allows you to	view current status informatio	on for the Node Mana	ger instance o	configured for t	his machine.						
base_domain ⊕-Domain Partitions	Status:	Bea	chable			Current status of	this Node Mi	manar	More Info			11
- Environment	o tatao.					Garon status of	1110 14000 111	a ragon.				- 11
Deployments     Services	Version:	12.2	.1.3.0			Version string ret	urned from th	e Node N	lanager.	More Inf	o	
Security Realms												
- Interoperability  - Diagnostics												_
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How do I												- 1
Monitor Node Manager status												- 1
Monitor Node Manager logs												- 1
Create and configure machines												- 1
System Status												- 1
Health of Running Servers as of 8:20 PM												- 1
Failed (0)												
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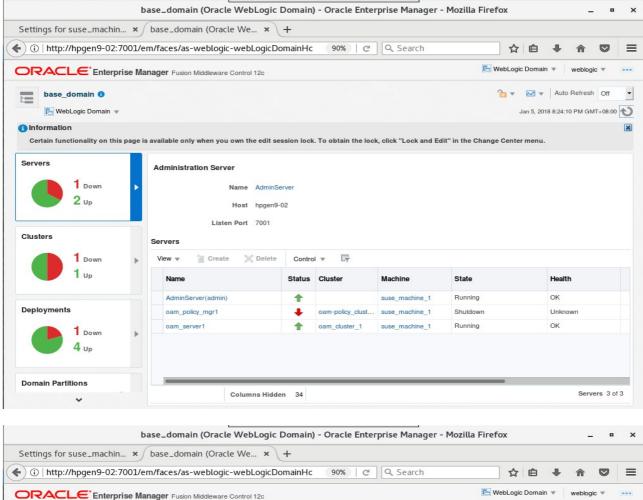
2). Access to Enterprise Manager Console.

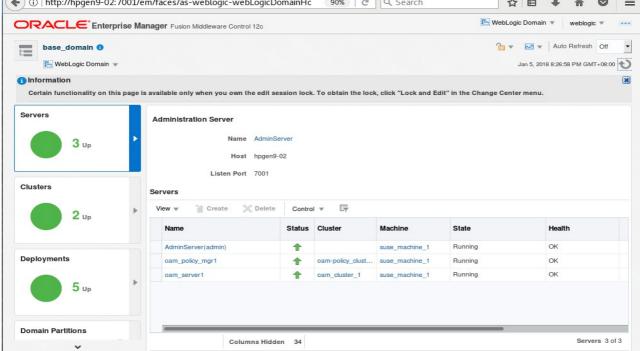
Login Page:					
Sign in - Oracle Enterprise Manager - Mozilla Firefox			-	- •	×
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SIGN IN TO <b>ORACLE ENTERPRISE MANAGER</b> FUSION MIDDLEWARE CONTROL 12c					
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	c	DR/		.e <sup>.</sup>	

# Home Page:

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1) Information										
Certain functionality on this	s page is a	available only when you own the ed	it session lock	. To obtain the loc	k, click "Lock and Ed	lit" in the Change C	enter menu	ı.		
			en9-02							
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Clusters 2 Down	•	Servers	1	Cluster	Machine	State		Health	'n	
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2 Down	•	View v Create Del Name AdminServer(admin)	1 Control Status	Cluster	suse_machine_1	Running		ок	wn	
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2 Down	Þ	View  Create Del Creat	1 Control Status	Cluster	suse_machine_1 suse_machine_1	Running Shutdown		OK	wn	

Starting the managed oam server and oam policy server defined in domain, wait until these servers come up into RUNNING state:





After they start up successfully, each managed server is listed as Running.

# 3). Access to Oracle Access Management Console - URL: http://host:port/oamconsole

	Oracle Access Management -	- Administration Con	sole - Mozilla Firefo	ж		-		×
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🔶 🛈 🔏   http://hpgen9-	02:7001/oamconsole/faces/login.jspx	90% C	<b>Q</b> , Search	☆ 自	+	A	◙	≡
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	Sign In Sign in to administer Oracle Access Manager Username weblogic Password 	ment						
Copyright © 2000, 2017, Orac	le and/or its affiliates. All rights reserved.							

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CRACLE <sup>®</sup> Access Management	e Ap	weblogic 💌	ation
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Session Management Manage Single Sign-On sessions	Password Policy Manage Common Password Policy for Single Sign-On	Plug-ins + - Manage Authentication Plug-ins	
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Launch Pad Administration × Available Services ×			
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Available Services	User Identity Stores Manage IDS profiles and ID stores	Administration Grant administrative permissions	

## Oracle Fusion Middleware 12c on SLES 12 SP3

4).	Access to Polic	y Manager	Console -	URL:htt	<u>p://host:</u>	port/access
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ettings for suse_machin × oam_admin (E									
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Copyright © 2000, 2017, Oracle and/or its affiliates. All rights re-	served.								
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End of Oracle Access Manager.

*Cracle Identity Manager* 

## 1.Installing Oracle Identity and Access Management 12cPS3 software

1-1. Prerequisites:

Installation of Oracle Identity and Access Management requires:

1). Oracle Database 12cR2 (12.2.0.1.0) installed.

(**Note**: With DB version 12, XA transaction recovery views/synonyms are required by the OIM Schema.To install these views/synonyms via the initxa.sql and xaview.sql scripts.



```
SQL> @/home/oracle/app/product/12.2.0/dbhome_1/rdbms/admin/xaview.sql
DROP VIEW d$xatrans$
*
ERROR at line 1:
ORA-00942: table or view does not exist
DROP VIEW d$pending_xatrans$
*
ERROR at line 1:
ORA-00942: table or view does not exist
View created.
Synonym created.
Synonym created.
```

Also, please make sure that database initialization parameter **OPEN\_CURSORS** greater than or equal to 800; Login to database server as **root user** and execute the SQL command: **"alter system set open\_cursors=1600 scope=spfile;" then restart the database** 

SQL> alter system set ope	en_cursors=	1600 scope=sp	file;
System altered.			
SQL> shutdown immediate; Database closed. Database dismounted. ORACLE instance shut down SQL> startup ORACLE instance started.	۱.		
Total System Global Area Fixed Size Variable Size Database Buffers Redo Buffers Database mounted. Database opened. SQL> show parameter open_	19247928 4362079432 1.5771E+10 47857664	bytes bytes bytes	
NAME		TYPE	VALUE
open_cursors SQL> []		integer	1600

)

2). Oracle JDK 1.8.0\_131 and later installed.

1-2. Log in to the target system (SLES 12 64-bit OS) as a non-admin user. Download the Oracle Identity and Access Management 12cPS3 (12.2.1.3.0) generic installer .zip file from <a href="http://www.oracle.com/technetwork/indexes/downloads/index.html#middleware">http://www.oracle.com/technetwork/indexes/downloads/index.html#middleware</a>.

(**Note:** Please ensure the installation user has the proper permissions to install and configure the software.)

1-3. Go to the directory where you downloaded the installation program. Extract the contents of these .zip ("fmw\_12.2.1.3.0\_idmqs\_Disk1\_1of2.zip" and "fmw\_12.2.1.3.0\_idmqs\_Disk1\_2of2.zip") files and launch the installation program by running '**java -jar fmw.......jar** '

### For the actual installation, follow the steps below:

# 1). Welcome page appears.

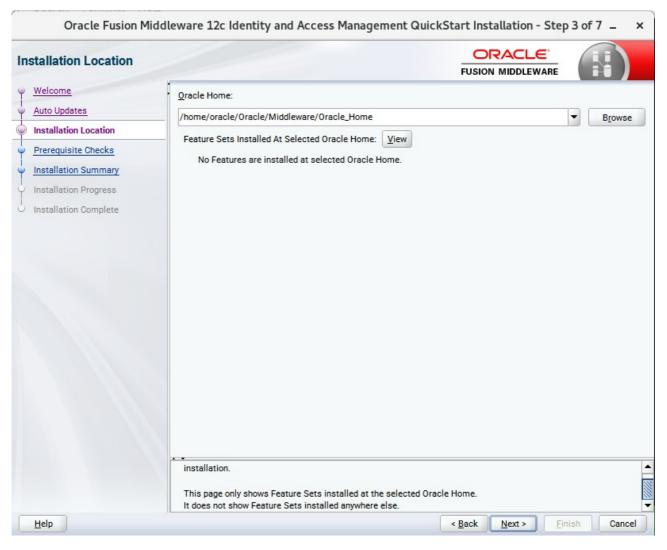
/elcome	
Welcome	1
Auto Updates	Welcome to the Oracle Fusion Middleware 12c (12.2.1.3.0) IDM Suite Quick Start Installer.
Installation Location Prerequisite Checks	Use this installer to create a new Oracle home that contains everything you need to manage privileges and protect applications with the Oracle IDM Suite software for production or evaluation.
Installation Summary	For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware documentation library.
Installation Progress	Context-sensitive online help is available from the Help button.
Installation Complete	

This page welcomes you to the installation. Click **Next** to continue.

Oracle Fusion Mid	dleware 12c Identity and Access Managem	ent QuickStart Installation - Step 2 of 7 🔔 🗙 🗙
Auto Updates		
Auto Updates	Skip Auto Updates   Select patches from directory   Location:   Search My Oracle Support for Updates   Username:   Password:   Proxy Settings	
Help		< Back Next > Finish Cancel

# 2). The Auto Updates page appears.

This screen helps to quickly and easily search for the latest software updates, including important security updates, via your My Oracle Support account. Make your choices, then click **Next** to continue.



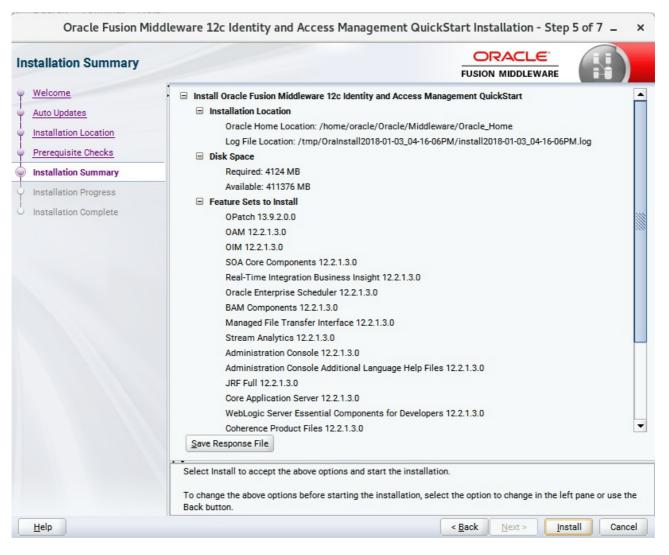
### 3). The Installation Location page appears.

Specify the Oracle home location into which you want to install the product(s). Click **Next** to continue.

Oracle Fusion Mide	ware 12c Identity and Access Managemen	t QuickStart Installation - Step 4 of 7 _ × ORACLE FUSION MIDDLEWARE
<u>Welcome</u> <u>Auto Updates</u> Installation Location	1	00%
	<ul> <li>Checking operating system certification</li> <li>Checking Java version used to launch the instant</li> </ul>	aller
<ul> <li>Installation Progress</li> <li>Installation Complete</li> </ul>		
	•	ew Successful <u>T</u> asks View <u>Log</u>
	<ul> <li></li></ul>	
Help		< Back Next > Finish Cancel

### 4). The **Prerequisites Checks** page appears.

This pages shows you the progress of the system checking the prerequisites on your system prior to installation. If you are lacking any prerequisites, a message will appear telling you so. You do not need to take any actions on this page, though you can view the log from here. Click **Next** to continue.



### 5). The Installation Summary page appears.

This page shows you what components and features are about to be installed. If you need to make changes, click **Back**, otherwise, click **Install** to start the installation.

#### Oracle Fusion Middleware 12c Identity and Access Management QuickStart Installation - Step 6 of 7 \_ × ORACLE Installation Progress FUSION MIDDLEWARE Welcome 100% Auto Updates Installation Location Prepare Prerequisite Checks 1 Сору Installation Summary Generating Libraries Installation Progress Performing String Substitutions Installation Complete Linking $\checkmark$ Setup 1 Saving the inventory Post install scripts View Successful Tasks View Messages View Log Hardware and Software **Engineered to Work Together** Help < Back Next > Finish Cancel

#### 6). The Installation Progress page appears.

This page shows you the progress of the installation, and will warn you if there are any problems. You can view messages and logs from this page, but typically no action is required here. When progress is complete, click **Next** (go to a Summary page). Alternatively, you can click **Finish**.

7). If you clicked **Next**, the **Installation Complete** page appears, showing you the components that have been installed.

stallation Complete						
Welcome	Install Oracle Fusion Middleware 12c Identity and Access Management QuickStart					
Auto Updates	Installation Location					
	Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home					
Installation Location	Log File Location: /tmp/OraInstall2018-01-03_04-16-06PM/install2018-01-03_04-16-06PM.log					
Prerequisite Checks	Feature Sets Installed Successfully					
Installation Summary	OPatch 13.9.2.0.0					
Installation Deserves	OAM 12.2.1.3.0					
Installation Progress	- OIM 12.2.1.3.0					
Installation Complete	SOA Core Components 12.2.1.3.0					
	Real-Time Integration Business Insight 12.2.1.3.0					
	Oracle Enterprise Scheduler 12.2.1.3.0					
	BAM Components 12.2.1.3.0					
	Managed File Transfer Interface 12.2.1.3.0					
	Stream Analytics 12.2.1.3.0					
	Administration Console 12.2.1.3.0					
	Administration Console Additional Language Help Files 12.2.1.3.0					
	JRF Full 12.2.1.3.0					
	Core Application Server 12.2.1.3.0					
	Next Step(s):					
	1. Use the Repository Creation Utility to create the required schemas in a supported database.					
	2. Use the Configuration Wizard to create a domain using the required domain configuration templates.					
	See the <u>product installation quide</u> for more information.					
	Oracle Fusion Middleware 12c Identity and Access Management QuickStart installation completed successfully					

This screen displays the Installation Location and the Feature Sets that are installed. Review this information and click **Finish** to close the installer.

#### 2. Configuring the Oracle Identity Manager Domain

2-1. Creating Database Schema through Repository Creation Utility for OIM.

Repository Creation Utility (RCU) is available with the Oracle Fusion Middleware Infrastructure 12c distribution. Run **\$FMW\_HOME/oracle\_common/bin/rcu** and create required database schemas for Oracle Identity Manager.

#### Screenshot: Database schemas creating for Oracle Identity Manager.

	Repository Crea	ation Utility - Step 4 of	F 8	_ ×	
Repository Creation Utility				<	
Velcome Create Repository Database Connection Details	Specify a unique prefix for all sch schemas later. O <u>S</u> elect existing prefix:	emas created in this session,	so you can easily locate, reference,	and manage the	
Select Components     Schema Passwords     Map Tablespaces	Oreate new prefix:	DEV Alpha numeric only. Canr	not start with a number. No special (	characters.	
Summary	Component		Schema Owner		
	Oracle AS Repository	Components			
O Completion Summary	B AS Common Sche	emas			
	Common Infra	structure Services *	DEV_STB		
	Oracle Enterpri	se Scheduler	ESS		
	Oracle Platform	n Security Services	DEV_OPSS		
	User Messagin	g Service	DEV_UMS		
	Audit Services		DEV_IAU		
	Audit Services	Append	DEV_IAU_APPEN	D	
	Audit Services	Viewer	DEV_IAU_VIEWER		
	Metadata Serv	ices	DEV_MDS		
	Weblogic Servi	ces *	DEV_WLS		
	SOA Suite				
	SOA Infrastruc	ture	DEV_SOAINFRA		
	IDM Schemas				
	Oracle Identity		DEV_OIM		
	Oracle Access	Manager	OAM		
	* Mandatory component. Ma	ndatory components cannot b			
Help			< <u>Back N</u> ext > <u>Fin</u>	ish Cancel	

Select the **Create new prefix** radio button and provide a schema prefix (such as DEV). Select the **Oracle Identity Manager** schema, this action automatically selects the schemas as dependencies, and ensure the schema creation is successful.

#### 2-2. Configuring a Domain for Oracle Identity Manager(OIM) using the Config Wizard

In order to complete the configuration. Run the config wizard using **config.sh** located in the **ORACLE\_HOME/oracle\_common/common/bin** directory.

#### Follow these steps:

1). On the Configuration Type screen, select **Create a new domain**, and enter the desired domain home path.

	Fusion Middle	eware Configura	ation Wizard -	Page 1 o	f 8			_ ×
Configuration Type				FL			6	
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	What do you want	omain ting domain vracle/Oracle/Midd	leware/Oracle_Ho	me/user_proj	ects/domains/ba	.se_domai	in Br	owse
Help				< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	C	ancel

Click Next to continue.

#### 2). The Templates screen appears.

	Fusion Middlew	vare Configuration Wizard	- Page 2 of 13	_ ×
Templates				
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Filter Templates: Available Templa Basic WebLog Insight - 12.2. Insight SOA A Oracle B2B - Oracle B2B - Oracle B2B C Oracle B2B C Oracle B2B C Oracle Access Oracle Identit Oracle Enterp Oracle Enterp	Include all selected template tes gic Server Domain - 12.2.1.3.0 [wlser	rver] * soa] m] 1.2.0.1cm]	d templates
<u>H</u> elp			< <u>Back N</u> ext > <u>Fin</u>	nish Cancel

On the Templates screen, make sure **Create Domain Using Product Templates** is selected, then select the template **Oracle Identity Manager - 12.2.1.3.0 [idm]**.

Selecting these templates automatically selects the following as dependencies:

- Oracle SOA Suite 12.2.1.3.0 [soa]
- Oracle Enterprise Manager 12.2.1.3.0 [em]
- Oracle JRF 12.2.1.3.0 [oracle\_common]
- Oracle WSM Policy Manager 12.2.1.3 [oracle\_common]
- WebLogic Coherence Cluster Extension 12.2.1.3.0 [wlserver]

You can also select any of the Oracle products listed in the following table. You do not need to select all of these templates, and you can always run the configuration wizard again to add products to your domain later. Click **Next** to continue.

3). The High Availability Options screen appears.

	Fusion Middleware Configuration Wizard - I	Page 3 of 15		_ ×
High Availability Options				
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Credentials Keystore Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Enable Automatic Service Migration (Non-Dynamic Clue) Database Leasing Qonsensus Leasing JTA Transaction Log Persistence (Non-Dynamic Clusters of Default Persistent Store) JDBC <u>T</u> Log Store JMS Server Persistence JMS File Store JMS JDBC Store Only JMS Server persistence can be configured for Dynamic Migration and JTA Transaction Logs Persistence cannot be wizard, they need to be configured manually.	only) c Clusters using this c	-	
Help		< <u>B</u> ack <u>N</u> ext	t > <u>F</u> inish	Cancel

Keep the default value for Application location.Click **Next** to continue.

	Fusion Middlewa	are Configurati	on Wizard - P	age 4 of 1	L5			-	×
Application Location							R		
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Credentials Keystore Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain name: Domain location: Application location:	base_domain /home/oracle/Orac Oracle/Middlewar					ain (	B <u>r</u> ows	e
Help				< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish		Cance	el

4). The Application Location screen appears.

Keep the default value for Application location.Click **Next** to continue.

	Fusion Middlev	vare Configuration Wizard - I	Page 5 of 15	_ ×
Administrator Account				
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Credentials Keystore Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Name Password Confirm Password Must be the same as number or special ch	weblogic	n at least 8 alphanumeric cha	racters with at least one
Help			< <u>Back N</u> ext >	Einish Cancel

#### 5). The Administrator Account screen appears.

Enter the WebLogic Domain administration username and password. This information will be needed to access WebLogic Server Control and Fusion Middleware Control. Click **Next** to continue.

·	Fusion Middleware Configuration Wizard - Page 6 of 15	-	×
Domain Mode and JDK			
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Credentials Keystore Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain Mode	Brows	e
Help	< Back Next > Finish	Cance	el

6). The Domain Mode and JDK screen appears.

Select **Production** in the **Domain Mode** field and select the **Oracle HotSpot JDK** in the **JDK** field. Click **Next** to continue.

7). The Database Configuration	<b>1 Type</b> screen appears.
--------------------------------	-------------------------------

	Fusion Middleware Configuration Wizard - Page 7 of 15 _ ×
Database Configuration Type	
<ul> <li>Create Domain</li> <li>Templates</li> <li>High Availability Options</li> <li>Application Location</li> <li>Administrator Account</li> <li>Domain Mode and JDK</li> <li>Database Configuration Type</li> <li>Component Datasources</li> <li>JDBC Test</li> <li>Credentials</li> </ul>	Specify AutoConfiguration Options Using:            • <u>R</u> CU Data         • <u>Manual Configuration</u> Enter the database connection details using the schema credentials corresponding to Common Infrastructure Services component in the Repository Creation Utility. The Wizard uses this connection to automatically configure the datasources required for components in this domain.         Vendor:       Oracle       Driver: *Oracle's Driver (Thin) for Service connections; Versions:*            • Connection Parameters        Connection URL String          Host Name:       hpgen9-02          DBMS/Service:       suse       Port: 1521
<u>Keystore</u> <u>Advanced Configuration</u> <u>Configuration Summary</u> Configuration Progress     End Of Configuration	Schema Owner:       DEV_STB       Schema Password:         Get RCU Configuration       Qancel         Connection Result Log       Successfully Done.         Successfully Done.       Click "Next" button to continue.
Help	< Back Next > Finish Cancel

Select **RCU Data** to activate the fields. The **RCU Data** option instructs the Configuration Wizard to connect to the database and Service Table (STB) schema to automatically retrieve schema information for the schemas needed to configure the domain. Enter the RCU DB connection information, then click **Get RCU Configuration**. You should receive a success message. Click **Next** to continue.

	Fu	sion Middleware Co	onfiguration	Wizard - Page	8 of 15		_ ×
JDBC Component Schema	4				-		
Create Domain Templates	Ver	ndor:		Driver:			
High Availability Options	•	Connection Parameters	O Connection	n <u>U</u> RL String			
Application Location	Ho	st Name:					
Administrator Account	DB	MS/Service:		Port:			
Domain Mode and JDK     Database Configuration Type	Scl	hema Owner:		Schema Password:			
Component Datasources	Ora	acle RAC configuration for	component sche	mas:			
JDBC Test		O Convert to	GridLink O	Convert to RAC mul	ti data sourc	e 🔿 Don't co	nvert
Credentials	Edi	ts to the data above will af	fect all checked	rows in the table b	elow.		
V Keystore		Component Schema	DBMS/Service	Host Name	Port	Schema Owner	Schema Password
Advanced Configuration		OIM Schema	SUSE	hpgen9-02	1521	DEV_OIM	
Configuration Summary		SOA EDN (XA)	SUSE	hpgen9-02	1521	DEV_SOAINFR/	
Configuration Progress		SOA EDN (Local)	SUSE	hpgen9-02	1521	DEV_SOAINFR/	
End Of Configuration		LocalSvcTbl Schema	SUSE	hpgen9-02	1521	DEV_STB	
		User Messaging Service	SUSE	hpgen9-02	1521	DEV_UMS	
		SOA (XA)	SUSE	hpgen9-02	1521	DEV_SOAINFR/	
<u>H</u> elp				< [	Back N	lext > Ein	ish Cancel

#### 8). The JDBC Component Schema screen appears.

Our instructions assume each Repository schema uses the same password. If not, enter the correct schema passwords. Click **Next** to continue.

r	Fus	ion M	iddleware Configuration Wizard - P	Page 9 of 15 _ 2	×
JDBC Component Schema Test					
Create Domain		Status	Component Schema	JDBC Connection URL	Π
Templates		1	OIM Schema	jdbc:oracle:thin:@//hpgen9-02:1521/SUSE	
High Availability Options		1	SOA EDN (XA)	jdbc:oracle:thin:@//hpgen9-02:1521/SUSE	
	-	1	SOA EDN (Local)	jdbc:oracle:thin:@//hpgen9-02:1521/SUSE	3
		1	LocalSvcTbl Schema	jdbc:oracle:thin:@//hpgen9-02:1521/SUSE	1000
Administrator Account		1	User Messaging Service	jdbc:oracle:thin:@//hpgen9-02:1521/SUSE	
Domain Mode and JDK	•	1	SOA (XA)	jdbc:oracle:thin:@//hpgen9-02:1521/SUSE	Н
Database Configuration Type	•	1	SOA (Local)	jdbc:oracle:thin:@//hpgen9-02:1521/SUSE	
Component Datasources		1	WLS Schema	jdbc:oracle:thin:@//hpgen9-02:1521/SUSE	
JDBC Test	-	1	OIM MDS Schema	jdbc:oracle:thin:@//hpgen9-02:1521/SUSE	-
<u>Credentials</u> Keystore		_	ected Connections		
			Result Log Schema=OIM Schema		-
Advanced Configuration			e.jdbc.OracleDriver		12
<u>Configuration Summary</u>			acle:thin:@//hpgen9-02:1521/SUSE		
Configuration Progress		=DEV_0	IM		
End Of Configuration				ner=(select user from dual) and mr_type='0IM' and ver	s
CFGFWK-64213: Test Successful!					
Help				< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Cancel	

#### 9). The JDBC Component Schema Test screen appears.

The tests are run and the results given. Ensure all test results are successful.Click **Next** to continue.

Credentials				
Create Domain	Add 💥 De	lete		Discard Changes
High Availability Options	Key Name	Username	Password	Store Name
Application Location	keystore	keystore		oim
Administrator Account	OIMSchemaPassword	DEV_OIM		oim
Domain Mode and JDK	sysadmin	xelsysadm		oim
Database Configuration Type	WeblogicAdminKey	weblogic		oim
Credentials	_			
Keystore Advanced Configuration Configuration Summary Configuration Progress End Of Configuration				

#### 10). The Credentials screen appears.

Use the Credentials screen to set credentials for each key in the domain. Ensure that you specify *'keystore'* as the username for the key **Keystore**, and *'xelsysadm'* as the username for the key **sysadmin**.

	Fusion Middle	ware Configuration Wizard ·	- Page 11 of 1	.5		_ ×
Keystore						
Templates	Store Key Name	ums/apns		•	Dis <u>c</u> a	rd Changes
High Availability Options     Application Location	Alias		Trusted Certifi	cate		
Administrator Account     Domain Mode and JDK     Database Configuration Type						
<u>Component Datasources</u> <u>JDBC Test</u>						
Credentials						
Keystore	Alias	Private Key	Password		Identity Certif	icate
Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	* *					
Help			< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

#### 11). The **Keystore** screen appears.

Accept the defaults and click **Next** to continue.

	Fusion Middleware Configuration Wizard - Page 12 of 24 _ ×
Advanced Configuration	
Create Domain         Templates         High Availability Options         Application Location         Administrator Account         Domain Mode and JDK         Database Configuration Type         Component Datasources         JDBC Test         Credentials         Keystore         Advanced Configuration         Administration Server         Node Manager         Managed Servers         Clusters         Server Templates         Coherence Clusters         Machines         Virtual Targets	Administration Server Modify Settings  Node Manager Configure Node Manager  Add, Delete or Modify Settings for Managed Servers, Clusters, Virtual Targets and Coherence Dgmain Frontend Host Capture Configure Domain Frontend Host Deployments and Services Target to Servers or Clusters File Store Modify Settings
Help	< <u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel

#### 12). The Advanced Configuration screen appears.

On the Advanced Configuration screen, select:

- Administration Server
- Node Manager
- Topology

Then, click **Next** to continue.

Fusion Middleware Configuration Wizard - Page 13 of 24				
Administration Server				
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Credentials Keystore Advanced Configuration Administration Server Managed Servers Clusters Server Templates Coherence Clusters Machines	Server Name AdminServer   Listen Address 147.2.207.194   Listen Port 7001   Enable SSL			
Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish	Cancel		

#### 13). The Administration Server screen appears.

Use the **Administration Server** screen to select the IP address of the host. Select the drop-down list next to **Listen Address** and select the IP address of the host where the Administration Server will reside, or use the system name or DNS name that maps to a single IP address. Click **Next** to continue.

	Fusion Middleware C	onfiguration Wizard - P	age 14 of 24		_ ×
Node Manager					
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Credentials Keystore Advanced Configuration Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Coherence Clusters Machines Virtual Targets	Manual Node Manager Node Manager Credentials Username: Password: Confirm Password:	ocation          re/Oracle_Home/user_projec         Setup         weblogic            ssword. Password must contain	n at least 8 alphanumeric ch	haracters with at	
Help			< <u>B</u> ack <u>N</u> ext >	Einish	Cancel

14). Configuring **Node Manager** screen appears.

Select **Per Domain Default Location** as the Node Manager type, then specify Node Manager credentials. Click **Next** to continue.

	Fusion Middleware	e Configuration V	/izar	d - Page 15	of 24		_ ×
Managed Servers	1						
Create Domain Templates	Add 🗈 C	lone X Delete				🔊 Dis <u>c</u>	ard Changes
High Availability Options     Application Location	Server Name	Listen Addres	s	Listen Port	Enable SSL	SSL Listen Port	Server Groups
Administrator Account	oim_server1	147.2.207.194	•	14000		Disabled	OIM-MGD-S
Domain Mode and JDK	soa_server1	147.2.207.194	•	7003		Disabled	SOA-MGD
Credentials Keystore Advanced Configuration Administration Server Node Manager Managed Servers							
Clusters							
Server Templates							
Coherence Clusters							
Machines							
Wirtual Targets	-						

#### 15). The Managed Servers screen appears.

On the **Managed Servers** screen, new Managed Servers named: *oim\_server1* and *soa\_server1* are automatically created. In the **Listen Address** drop-down list, select the IP address of the host on which the Managed Server will reside or use the system name or DNS name that maps to a single IP address. The default **Server Groups** have already been selected for each server. Click **Next** to continue.

	Fusion Middle	ware Configura	tion Wizard -	Page 16 of 26		_ ×
Clusters						
Templates	Add	X Delete			🔊 Di	is <u>c</u> ard Changes
High Availability Options	Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS Port	Dynamic Server Groups
Application Location	oim_cluster_1			0	0	Unspecified 🔻
Administrator Account	soa_cluster_1			0	0	Unspecified 🔻
Domain Mode and JDK						
Database Configuration Type						
Component Datasources						
UDBC Test						
<u>Credentials</u>						
V Keystore						
Advanced Configuration						
<ul> <li>Administration Server</li> </ul>						
Node Manager						
Managed Servers						
Clusters						
Server Templates						
Dynamic Servers						
Assign Servers to Clusters						
Coherence Clusters	-					
Help				< <u>B</u> ack <u>N</u>	ext >	Cancel

#### 16). The Clusters screen appears.

On the Clusters screen:

- 1. Click Add.
- 2. Specify *oim\_cluster\_1* in the Cluster Name field.
- 3. Leave the Cluster Address field blank.
- 4. Repeat these steps to create *soa\_cluster\_1* cluster.

Click Next to continue.

(Note: If you are configuring a non-clustered setup on a single node, skip this screen.)

	Fusion Middleware C	onfiguration Wizard -	Page 17 of 26	_ ×
Server Templates				
Create Domain Templates	Add X Dele	te		🗐 Dis <u>c</u> ard Changes
High Availability Options     Application Location	Name	Listen Port	SSL Listen Port	Enable SSL
Administrator Account			J	
Domain Mode and JDK     Database Configuration Type				
<u>Component Datasources</u>				
<u>JDBC Test</u> <u>Credentials</u>				
<u>Keystore</u>				
Advanced Configuration Administration Server				
Vode Manager				
<u>Managed Servers</u> <u>Clusters</u>				
Server Templates	• •			
<u>Dynamic Servers</u>				
Assign Servers to Clusters				
<u>Coherence Clusters</u>				
Help			< <u>B</u> ack <u>N</u> ext >	Einish Cancel

17). The Server templates screep appears.

If you are creating dynamic clusters for a high availability setup, use the Server Templates screen to define one or more server templates for domain. To continue configuring the domain, click **Next**.

Dynamic Servers						ORACL	e (	
Dynamic Servers					FUS	ION MIDDLE		
Create Domain							🔊 Dis <u>c</u> ard	Changes
High Availability Options     Application Location     Administrator Account	Cluster Name	Server Name Prefix	Server Template	Dynamic Cluster Size	Machine Name Match Expression	Calculated Machine Names	Calculated Listen Ports	Dynamic Cluster
Domain Mode and JDK	oim_cluster_1	Disabled	Unspecifi 🔻	Disabled	Disabled			
<ul> <li>Database Configuration Type</li> </ul>	soa_cluster_1	Disabled	Unspecifi*	Disabled	Disabled			
<ul> <li><u>Component Datasources</u></li> <li><u>JDBC Test</u></li> </ul>								
Credentials								
Keystore								
Advanced Configuration								
Administration Server								
Node Manager								
<u>Node Manager</u> <u>Managed Servers</u>								
Managed Servers								
<u>Managed Servers</u> <u>Clusters</u>								
Managed Servers <u>Clusters</u> <u>Server Templates</u>								

#### 18). The **Dynamic Servers** screep appears.

If you are creating dynamic clusters for a high availability setup, use the Dynamic Servers screen to configure the dynamic servers. If you are not configuring a dynamic cluster, click **Next** to continue configuring the domain.

	Fusion Mid	Idleware Configurat	ion Wizard - Pa	ige 19 of	26		_ ×
Assign Servers to Clusters							
Create Domain	Servers			Clusters			
Templates         High Availability Options         Application Location         Administrator Account         Domain Mode and JDK         Database Configuration Type         Component Datasources         JDBC Test         Credentials			۲	= 6	r n_cluster_1 ) Server oim_serv a_cluster_1 ) Server ) Soa_serv		
<u> </u>			8				
Advanced Configuration							
<u>Administration Server</u>							
Node Manager							
<u>Managed Servers</u>							
<u>Clusters</u>							
<u>Server Templates</u>							
Upnamic Servers		more servers in the left par ver or servers to the cluste		the right pa	ne. Then use th	ne right arrow	button (>) to
Assign Servers to Clusters							
Coherence Clusters	-						
Help				< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

19). The Assign Servers to Clusters screen appears.

Use the **Assign Servers to Clusters** screen to assign Managed Servers to a new configured cluster. Click **Next** to continue.

r.	Fusion Middleware Confi	iguration Wizard - Page 2	20 of 26	_ × _
Coherence Clusters				
Create Domain			9	Dis <u>c</u> ard Changes
High Availability Options	Cluster Na	me	Cluster Listen Po	rt
Application Location	defaultCoherenceCluster	7574		
Administrator Account				
Domain Mode and JDK				
Database Configuration Type				
<u>Component Datasources</u>				
UDBC Test	- 55			
<u>Credentials</u>				
Keystore				
Advanced Configuration				
Administration Server				
Vode Manager				
Managed Servers				
<u>Clusters</u>				
Server Templates				
Dynamic Servers				
Assign Servers to Clusters				
Coherence Clusters	-			
Help		< <u>B</u> a	ack <u>N</u> ext > <u>F</u> inis	h Cancel

20). The Coherence Clusters screen appears.

Leave the default port number as the Coherence cluster listen port. After configuration, the Coherence cluster is automatically added to the domain. Click **Next** to continue.

21). The <b>N</b>	lachines screen appears.	
-------------------	--------------------------	--

	Fusion Middlew	vare Configura	ation Wizard - Pa	age 21 of 27		_ ×
Machines						
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Credentials Keystore Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Dynamic Servers to Clusters Coherence Clusters	Add Nam suse_Machine_1	Aachine <u>D</u> elete ne	Node Manager Li	isten Address	·	Dis <u>c</u> ard Changes ager Listen Port 5556
Help	<b>▼</b>			< <u>B</u> ack <u>N</u> ex	kt > <u>F</u> ini	sh Cancel

To create a new machine so that Node Manager can start and stop servers. Click **Next** to continue.

	F	usion Middleware Configuration Wizard -	Pa	ge 22 of	27		_ ×
Assign Servers to Machines							
🔍 Create Domain	1 8	Servers		Machines	\$		
Templates				Nachir			
High Availability Options					se_Machine_1 AdminServer		
Application Location				- X	oim_server1		
Administrator Account					soa_server1		
Domain Mode and JDK							
			>				
Database Configuration Type			ď				
Component Datasources							
UDBC Test							
<u>Credentials</u>							
Keystore			8				
Advanced Configuration			-				
Administration Server							
Vode Manager							
Managed Servers							
Clusters							
Server Templates	-						
Dynamic Servers		elect one or more servers in the left pane and one mach	ine i	n the right p	ane. Then use	the right arro	w button (>) to
Assign Servers to Clusters	as	ssign the server or servers to the machine.					
Coherence Clusters							
Help	-			< <u>B</u> ack	Next >	Finish	Cancel
<u> </u>			-	Duon	<u>Heat</u>	<u></u>	Gunder

22). The Assign Servers to Machines screen appears.

Use the **Assign Servers to Machines** screen to assign the Managed Servers to the new machine you just created. Click **Next** to continue.

	I	Fusion Middleware	Configuration V	/izard - Page	23 of 27		_ ×
Virtual Targets						A10	
Templates		Add X De	lete			Dis <u>c</u> ard	I Changes
High Availability Options     Application Location		Name	Target	Host Names	URI Prefix	Explicit Port	Port Offset
4dministrator Account							
Domain Mode and JDK     Database Configuration Type							
<u>Component Datasources</u> <u>JDBC Test</u>	1000						
<u>Credentials</u> Keystore							
Advanced Configuration							
<u>Administration Server</u> <u>Node Manager</u>							
<u>Managed Servers</u> <u>Clusters</u>							
Server Templates     Dynamic Servers		•					
Assign Servers to Clusters     Coherence Clusters							
	۰L			<	Back <u>N</u> ext >	<u>F</u> inish	Cancel

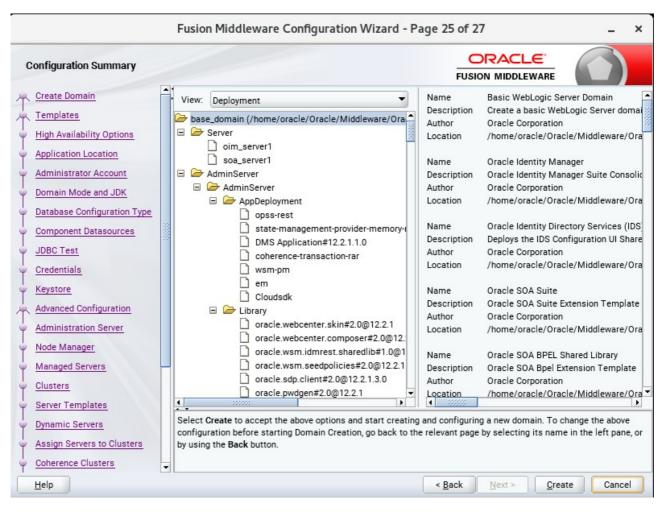
#### 23). The Virtual Targets screep appears.

If you have a WebLogic Server Multitenant (MT) environment, you use the Virtual Targets screen to add or delete virtual targets. For this installation (not a WebLogic Server MT environment), you do not enter any values; just select **Next**.

	Fusion Middleware Configuration Wi	zard - Page 24 of 27	_ ×
Partitions			
Templates	Add X Delete	<b></b>	Dis <u>c</u> ard Changes
High Availability Options     Application Location		Name	
4 Administrator Account			
Domain Mode and JDK     Database Configuration Type			
<u>Component Datasources</u> <u>JDBC Test</u>			
<u>Credentials</u> <u>Keystore</u>			
Advanced Configuration Administration Server			
Node Manager			
<u>Managed Servers</u> <u>Clusters</u>			
<u>Server Templates</u> <u>Dynamic Servers</u>			
<u>Assign Servers to Clusters</u> <u>Coherence Clusters</u>	▼		
Help		< <u>Back N</u> ext > Einis	h Cancel

#### 24). The **Partitions** screep appears.

The Partitions screen is used to configure partitions for virtual targets in WebLogic Server Multitenant (MT) environments. Select **Next** without selecting any options.



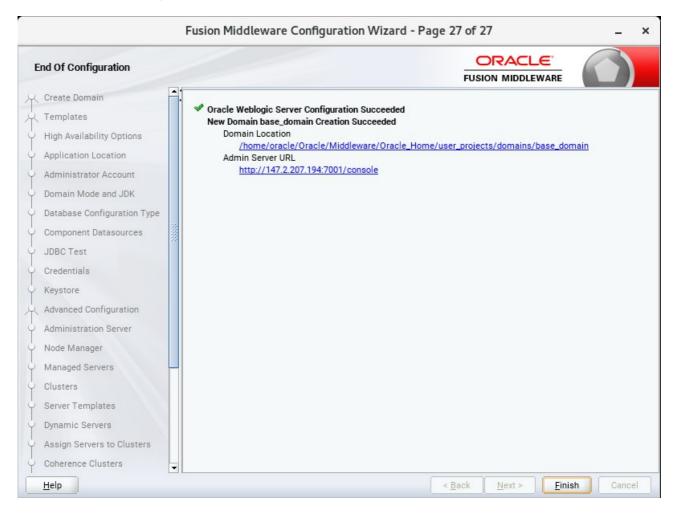
25). The Configuration Summary screen appears.

Select Create to accept the above options and start creating and configuring a new domain.

	Fu	sion Middleware Configu	ration Wizard - Pa	ge 26 of 2	.7		_ ×
Configuration Progress						. (	
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Credentials Keystore Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Dynamic Servers Assign Servers to Clusters		Copy Unprocessed Artifacts OPSS Processing OWSM Processing Artifacts Generation String Substitution Post Processing	100%				
Coherence Clusters	-		[	< <u>B</u> ack	<u>N</u> ext >	inish	Cancel

#### 26). The **Configuration Progress** screen appears.

Wait for this part of the configuration to complete. Depending on the location and performance of the Repository database, this process may take a few minutes. After the domain successful created, click **Next** to continue.



#### 27). The End of Configuration screen appears.

Once you see: "Oracle Weblogic Server Configuration Succeeded", record the '**Domain Location**' and '**Admin Server URL'**, then click **Finish** to dismiss the Configuration Wizard.

#### 2-3. Performing Post-Configuration Tasks

After you configure the Oracle IDM domain, perform the necessary post-configuration tasks.

1). Running the Offline Configuration Command.

To run the offlineConfigManager command, do the following:

• Set the following environment variables to the right values.

DOMAIN\_HOME JAVA\_HOME

• Run the setDomainEnv script from %DOMAIN\_HOME%\bin, in order to set up all of the required environment variables.

./setDomainEnv.sh

• Run the following command from the location OIM\_HOME/server/bin/:

./offlineConfigManager.sh

oracle@hpgen9-02:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin									
File Edit View Search Terminal Tabs Help									
oracle@hpgen9-02:/home/oracle/O × oracle@hpgen9-02:/home/oracle/O × oracle@hpgen9-02:/home/oracle/O ×	c	<u>0</u>	•						
oracle@hpgen9-02:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin> export DOMAIN_HOME=/home/ le/Middleware/Oracle_Home/user_projects/domains/base_domain oracle@hpgen9-02:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin> export JAVA_HOME=/home/or _SW/Java/jdk1.8.0_144 oracle@hpgen9-02:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin> chmod +x offlineConfigMan oracle@hpgen9-02:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin> ./offlineConfigManager.sh	acle ager	e/ORA							

				orac	le@hp	gen9-02:/home/oracle/O	Dracle/Middleware/O	acle_Home/idm/server/bin		- 1	• ×
File	Edit	View	Search	Terminal	Tabs	Help					
0	racle@	hpgens	9-02:/hon	ne/oracle/C	) ×	oracle@hpgen9-02:/	/home/oracle/O ×	oracle@hpgen9-02:/home/or	acle/O ×	D	<b>-</b>
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#### 3. Verifying Oracle Identity Manager(OIM) Installation and Configuration

3-1. Check for the presence of installation log files in logs directory inside your Oracle Inventory directory. Also, check the domain server logs, which are located in the servers directory inside the domain home directory.

3-2. Starting the Node Manager and the Admin Server.

# Starting the Node Manager, go to the DOMAIN\_HOME/bin directory and run 'nohup ./startNodeManager.sh > nm.out&'

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#### Starting the Admin Server, go to the DOMAIN\_HOME/bin directory and run ./startWebLogic.sh.

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You know that the administrator server is running when you see the following output:

Server state changed to RUNNING.

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### 3-3. Checking Oracle Identity and Access Management 12c Product URLs.

#### 1). Access to Administration Server Console

#### Login Page:

Oracle WebLogic Server Administration Console - Mozilla Firefox											
EM Express - Databas × Oracle WebLogic Server × +											
(<) (1) 🔏   http://hpgen9-02:7001/console/login/LoginForm.jsp	90% C	🔍 Search 🔂 🖨 🖊	<b>^</b>		≡						
ORACLE WebLogic Server Administration Conso	ble 12c	Welcome									
		Log in to work with the WebLogic Server domain Username: Password:	Login								
WebLogic Server Version: 12.2.1.3.0 Copyright (c) 1996,2017, Oracle and/or its affiliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective	) owners.										

#### Home Page:

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View changes and restarts	Home								
Click the Lock & Edit button to modify, add or	Home Page	Home Page							
delete items in this domain.	- Information and Resources					- 11			
Lock & Edit	Helpful Tools	General Information				- 11			
Release Configuration	Configure applications	Common Administration Task Descriptions				- 11			
Domain Structure	Configure GridLink for RAC Data Source	<ul> <li>Read the documentation</li> </ul>				- 11			
base domain	Configure a Dynamic Cluster	<ul> <li>Ask a question on My Oracle Support</li> </ul>				- 11			
Domain Partitions	<ul> <li>Recent Task Status</li> </ul>					- 11			
Environment	<ul> <li>Set your console preferences</li> </ul>					- 11			
Deployments     E-Services	<ul> <li>Oracle Enterprise Manager</li> </ul>					- 11			
Security Realms	- Domain Configurations					- 11			
- Interoperability  - Diagnostics	Demain	Description Convert Termelation	Index and a little of			- 11			
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Search the configuration	Environment	Deployments	Built-in Diagnostic Modules			- 11			
Use the Change Center	Servers		Diagnostic Images			- 11			
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Change Console preferences	<ul> <li>Server Templates</li> </ul>	Messaging	Archives			- 11			
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Monitor servers	Coherence Clusters	<ul> <li>Store-and-Forward Agents</li> </ul>	• SNMP			- 11			
Cuntum Status	Machines	<ul> <li>JMS Modules</li> </ul>	Interceptors			- 11			
System Status	Virtual Hosts	<ul> <li>Path Services</li> </ul>							
Retrieving Health Data	Virtual Targets	<ul> <li>Bridges</li> </ul>	Charts and Graphs			- 11			
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delete items in this domain.	Config	uration Control								
Lock & Edit										
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Domain Structure	   This p	page summarizes each serve	er that has been con	igured in the current \	VebLogic Server domain.					
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Delete Managed Servers     Delete the Administration Server									'	
Start and stop servers										
View objects in the JNDI tree										
System Status										
Bystem Status  Health of Running Servers as of 5:40 PM										

#### Viewing the summary of servers:

Verify that the Admin Server can connect to the node manager running on your machine. Environments -> Machines -> <your machine> -> Monitoring. The status should show: Reachable Settings for suse\_Machine\_1 - base\_domain - WLS Console - Mozilla Firefox

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Create and configure machines													
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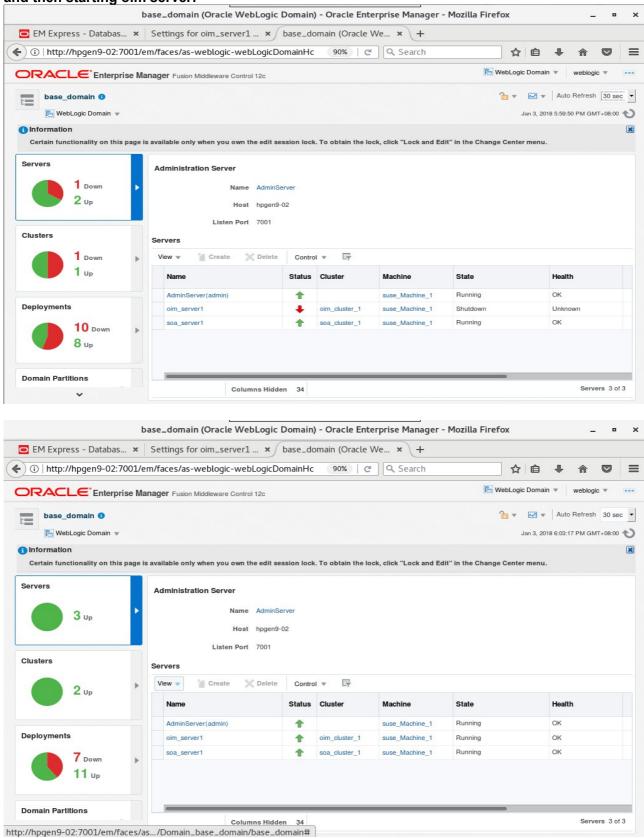
2). Access to Enterprise Manager Console.

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SIGN IN TO <b>ORACLE ENTERPRISE MANAGER</b> FUSION MIDDLEWARE CONTROL 12c			
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#### Home Page:

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2 Down	View View Create Delete Name AdminServer(admin) oim_server1	Status	Cluster oim_cluster_1	suse_Machine_1 suse_Machine_1	Running Shutdown	OK	known	

Starting the managed soa server defined in domain, wait until is comes up into RUNNING state and then starting oim server:



After they start up successfully, each managed server is listed as Running.

#### Oracle Fusion Middleware 12c on SLES 12 SP3

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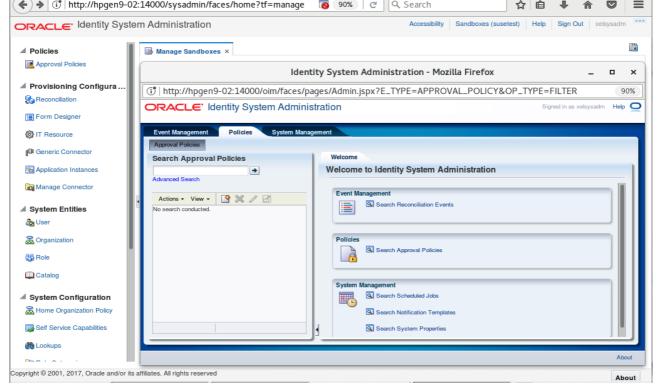
## 3). Access to OIM Identity Self Service - URL: http://host:port/identity

#### Identity Self Service - Mozilla Firefox • × \_ EM Express - Data... × Settings for oim\_serv... × base\_domain (Oracle ... × file:///hom...eStart.html × 🖸 Identity Self Service × + / (i) http://hpgen9-02:14000/identity/faces/home 90% C Q Search Ξ ☆ 自 ♣ ⋒ Sandboxes Customize xelsysadm --ORACLE<sup>®</sup> Identity Self Service Self Service 🎝 Manage Home My Information My Access **Request Access Track Requests** Track the status of your pending requests Manage your profile, passwords and challenge questions See what you have access to Request access for yourself or for others **Provisioning Tasks** Pending Approvals Take action on fulfillment tasks assigned to you Take action on requests assigned to you for approvals

#### Oracle Fusion Middleware 12c on SLES 12 SP3

<ol> <li>Access to OIM Identity System Administration Console – URL: <u>http://host:port/sysad</u></li> </ol>
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## 5). Access to Oracle SOA infrastructure Main Page – URL: http://host:port/soa-infra

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Velcome to the Oracle SOA Platform or	WebLogic						Lir	nks
DA Version; v12.2.1.3.0 - MAIN_170820.1700.2557							Compo	
ebLogic Server 12.2.1.3.0 (12.2.1.3.0) inning on: soa_server1						<u>BPI</u>	M Work	dist
ne following composites are currently deployed:								
1. default/AutoApproval!1.0*soa_e74bee45-d738-4dac-b9	18-c9c8c252ef06							
<ul> <li>Web Service: RequestApprovalService</li> </ul>								
2. default/BeneficiaryManagerApproval!4.0*soa_f47b5c18	-cdeb-4d2c-8076-c1996860e3	329						
<ul> <li>Web Service: RequestApprovalService</li> </ul>								
3. default/CertificationOverseerProcess!2.0*soa_5c499b1	-d38f-44c0-8477-6c06084b9b	b1d						
Web Service: CertificationTaskService	06 h 6 d = E06400040400							
<ul> <li>4. default/CertificationProcess!2.0*soa_1f4f94b9-4c1b-45</li> <li>O Web Service: CertificationTaskService</li> </ul>	90-D606-291432842409							
5. default/DefaultOperationalApproval!5.0*soa_66f28970-	deb-4664-8af4-12587484f67	71						
<ul> <li>Web Service: RequestApprovalService</li> </ul>	3000 1001 0011 12007 101107							
6. default/DefaultRequestApproval!5.0*soa_0aa7428c-0b4	4-4c0e-b3bd-4657858b3729							
<ul> <li>Web Service: RequestApprovalService</li> </ul>								
7. default/DefaultRequestApproval!6.0*soa_5d9c1d3a-eed	6-429f-82f0-c5acf029e45e							
<ul> <li>Web Service: RequestApprovalService</li> </ul>								
8. default/DefaultRoleApproval!3.0*soa_1aa2a180-698a-4	bcd-8859-faee689697e1							
<ul> <li>Web Service: RequestApprovalService</li> <li>9. default/DefaultSODApproval!2.0*soa_d11bee3c-54e9-42</li> </ul>	04 0415 01124-402							
<ul> <li>Web Service: ReguestApproval/2.0^soa_011bee3c-54e9-4.</li> </ul>	.04-841D-01134e4cce03							
10. default/DisconnectedProvisioning!2.0*soa_ccac580b-6b	4c-49fd-b2a7-28b4fb6f40f7							
<ul> <li>Web Service: manualprovisioningprocess_client</li> </ul>	+6 +910 0207 200+1001+017							
11. default/IdentityAuditRemediation!1.0*soa_e2b72613-84	90-4f76-a836-2db286c7548f							
<ul> <li>Web Service: IdentityAuditRemediationService</li> </ul>								
12. default/OAACGRoleAssignSODCheck!1.0*soa_87b11d6	-6dc5-4960-8b5c-065009584	6b5						
<ul> <li>Web Service: RequestApprovalService</li> <li>13. default/ProvideInformation!3.0*soa ab70eb82-b8e1-4ft</li> </ul>								

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## 6). Access to Oracle SOA composer - URL:<u>http://host:port/soa/composer</u>

7). Verifying connection for OIM design console. Launch the Design Console (via the xlclient.sh script in \$MW\_HOME/idm/designconsole)

export JAVA\_HOME=xxx chmod +x xlclient.sh ./xlclient.sh

oracle@hpgen9-02:/home/oracle/Oracle/Middleware/Oracle_Home/idm/designconsole								
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Jan 03, 2018 7:45 INF0: Config file	<pre>/home/oracle/Oracle/Middleware/Oracle_Home/idm/designconsole&gt; ./xlclient.sh :59 PM com.thortech.util.logging.Logger info modified successful Oracle Identity Manager Design Consolex</pre>	
	modified successful	
	Alert ×	
	<b>?</b> 1. The Design Console will be deprecated in an upcomming release and will be subsequently desupported. Are you sure you want to continue ?	
	2. Use Design console for Non-ICF based connectors if you are upgrading from previous release.	
	3. New Connector development following Non-ICF manner has been deprecated.	
	4. New ICF based connector development should use new Application Template based install process. Refer product documentation for simplified Application On-boarding introduced in 12c release.	
	Application installed via new wizard would be managed through Application On-boarding wizard available on	
	Self-Service UI. Java Task & Pre-populate Adapter related customization for Template based application should be done using Application On-boarding wizard. Design Console is still operational because of backward	
	compatibility reason, now Schema Attribute, Process Task, Adapter related customization should be done via Application On-boarding UI.	
	Login Cancel	_
	Login	

#### Click on Login. Then click Yes to confirm.

#### Viewing OIM Design Console.

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log4j:WARN N Oracle Identity Manager Design Con-	Adapter Factory								
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INFO: Java C	Adapter Name		Corr	npile Status					
E Resource Objects	Adapter Type		Last	Edit					
Process Management	Description								
Email Definition									
Event Handler Manager			e Lookup	Response			,		
Data Object Manager      En Process Definition	A	dapter Tasks			Execution Sched	ule			
	Add	<b>A</b>		·	4	•			
Lookup Definition	Delete								
🖻 💼 Development Tools	Legend								
Adapter Factory	Legend								
Form Designer									
Reconciliation Rules									
	Adapter Manage	Adapter Factory							

End of Oracle Identity Manager.

## **Additional Comments**

This document shows how to install and configure a standard topology for Oracle Fusion Middleware components 12c on SLES 12 SP3. You can extend this topology to make it highly available and secure so it is suitable for a production system.

*Thank you ! SUSE ISV Engineering Team Mar 15th, 2018* 

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