Oracle Fusion Middleware 12c on SLES 15 SP1

## Oracle Fusion Middleware 12c on SUSE Linux Enterprise Server 15 SP1 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 15 SP1. Details are provided for Intel x86-64 versions of both Oracle FMW 12c and SUSE Linux Enterprise Server 15 SP1. 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 15 SP1- (x86-64) (http://download.suse.de/install)

## Oracle

• Database 12cR2 (12.2.0.1.0) - (x86\_64) (https://www.oracle.com/downloads/#category-database)

• Java SE Development Kit 8 (jdk-8u221-linux-x64.tar.gz) (<u>https://www.oracle.com/downloads/#category-java</u>)

• WebLogic Server 12cR2 (12.2.1.4) (fmw\_12.2.1.3.0\_wls\_Disk1\_1of1.zip) (https://www.oracle.com/downloads/#category-middleware)

• WebLogic Server 12cR2 (12.2.1.4.0) - (Fusion Middleware Infrastructure Installer) (<u>https://www.oracle.com/downloads/#category-middleware</u>)

• Forms and Reports 12c (12.2.1.4.0) - (x86\_64) (https://www.oracle.com/downloads/#category-middleware)

• WebTier 12cR2 Oracle HTTP Server (12.2.1.4.0) - (x86\_64) (https://www.oracle.com/downloads/#category-middleware)

• WebCenter Portal 12c (12.2.1.4.0) - (V983398-01.zip) (https://www.oracle.com/downloads/#category-middleware)

• SOA Suite 12c (12.2.1.4.0) - (V983385-01\_1of2.zip) (https://www.oracle.com/downloads/#category-middleware)

• Oracle Identity and Access Management 12cPS4 (12.2.1.4.0) – (Generic Quick Installer) (<u>https://www.oracle.com/downloads/#category-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 15 SP1 (x86\_64)
- Kernel version: 4.12.14-197.15-default

## Prerequisites

## 1. Installing SUSE Linux Enterprise Server 15 SP1

1-1. Install SUSE Linux Enterprise Server 15 SP1 on your testing machine. To do so, follow the instructions in the official SUSE Linux Enterprise Server documentation at <a href="https://www.suse.com/documentation/">https://www.suse.com/documentation/</a>.

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	-	·	co	orrect vend	or brand package	s.			
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	ŝŔ	KDE Applications and Plasma 5							
	*	XFCE Desktop Environment							
	Ø	LXDE Desktop Environment						<u>C</u> ancel	<u>A</u> ccept
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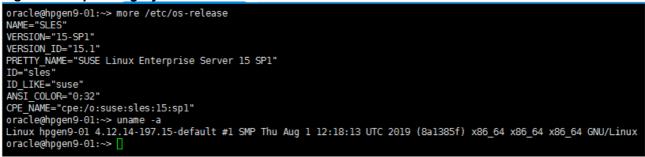
1

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

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	þ	Xen Virt	ual Machine	Host Server										
	þ	KVM Ho	st Server											
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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



1-2. Special Startup Requirements.

1). To set the SHMMAX 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 lines:

\* soft nofile 4096 \* hard nofile 65536 \* soft nproc 2047 \* hard nproc 16384

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

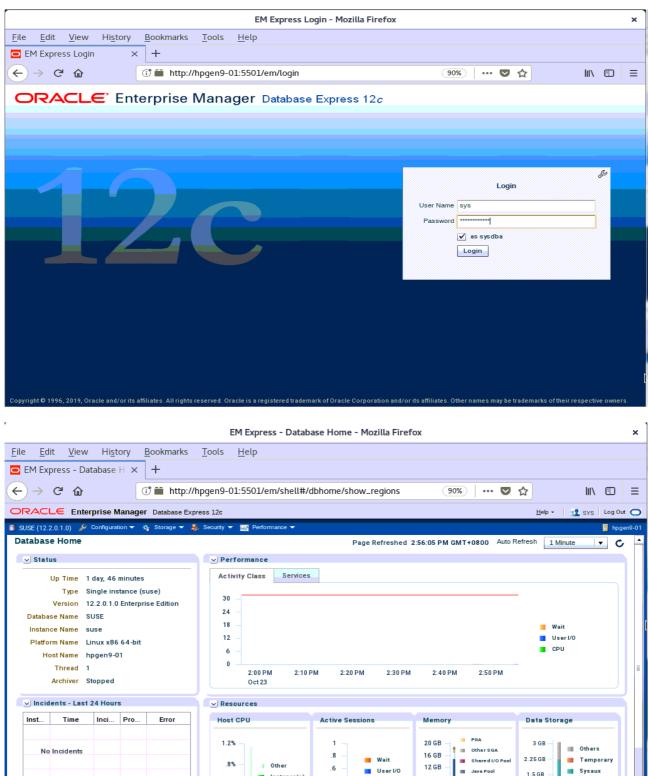
2-1. Log in to the target system (SUSE Linux Enterprise Server 15 SP1 64-bit OS) as a non-admin user. Download Oracle Database 12cR2 (12.2.0.1.0) x86\_64 from <a href="https://www.oracle.com/downloads/#category-database">https://www.oracle.com/downloads/#category-database</a>.

2-2. Oracle Database 12cR2 (12.2.0.1.0) is officially certified for SUSE Linux Enterprise Server 15 (4.12.14-25-default or later) x86\_64. For detailed instructions please use Official Oracle Install guides: <a href="http://docs.oracle.com/en/database/database.html">http://docs.oracle.com/en/database/database.html</a>.

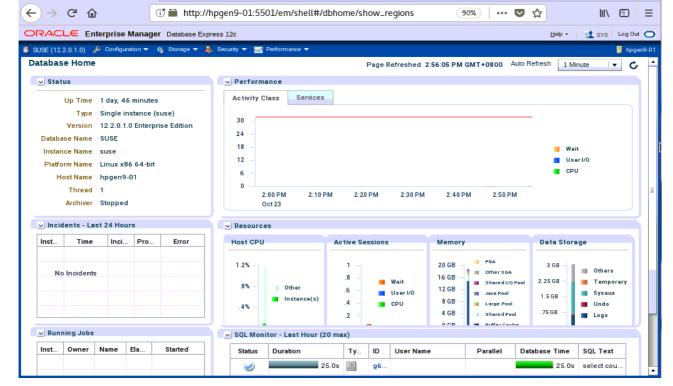
#### Figure 2-1 Make sure the Database up and running

```
oracle@hpgen9-01:~> export ORACLE HOME=/home/oracle/app/product/12.2.0/dbhome 1/
oracle@hpgen9-01:~> export ORACLE_SID=suse
oracle@hpgen9-01:~> /home/oracle/app/product/12.2.0/dbhome 1/bin/sglplus /nolog
SQL*Plus: Release 12.2.0.1.0 Production on Tue Oct 22 14:09:34 2019
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
Database Buffers 1.5771E+10 bytes
Redo Buffers 47957664 bytes
Redo Buffers
                          47857664 bytes
Database mounted.
Database opened.
SQL> show sga
Total System Global Area 2.0200E+10 bytes
Fixed Size
                           19247928 bytes
Additional Size3623881928 bytesDatabase Buffers1.6509E+10 bytesRedo Buffers47057664
                         3623881928 bytes
SQL> select name,open_mode from v$database;
NAME
          OPEN_MODE
                SUSE
          READ WRITE
SQL> exit
Disconnected from Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64bit Production
```

oracle@hpgen9-01:~> 🗌



#### 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.

	Database Configuration A	ssistant - Create a database - Step 2 of 14 _ 🛛 🗙
Select Database (	Creation Mode	
Database Operat     Creation Mode     Deployment Type     Database Identifi     Storage Option     Fast Recovery Op     Database Option     Configuration Op     Management Opt     User Credentials     Creation Option     Summary     Progress Page     Finish	Global database name       Storage type:       Cation       Database files location       tion       Fast Recovery Area (F       Database character s       cions	ne: suse File System on: {ORACLE_BASE}/oradata/{DB_UNIQUE_NAME} Browse FRA): {ORACLE_BASE}/fast_recovery_area/{DB_UNIQUE_NAME} Browse set: AL32UTF8 - Unicode UTF-8 Universal character set word:
Help		< <u>B</u> ack <u>N</u> ext > <u>Finish</u> Cancel

)

## 3. Installing Java

3-1. Log in to the target system (SUSE Linux Enterprise Server 15 SP1 64-bit OS) as a non-admin user. Download Java SE Development Kit 8 (jdk-8u221-linux-x64.tar.gz) from <a href="https://www.oracle.com/downloads/#category-java">https://www.oracle.com/downloads/#category-java</a>.

(Note: The classes in com.oracle.weblogic.management.tools.migration.jar are built with JDK8 and must be run with JDK8. For 12c(12.2.1.4.0), the certified JDK was jdk1.8.0\_191 and later.)

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@hpgen9-01:~ ×
File Edit View Search Terminal Help
oracle@hpgen9-01:~> export JAVA_HOME=/home/oracle/ORACLE_SW/Java/jdk1.8.0_221/ oracle@hpgen9-01:~> export PATH=\$JAVA_HOME/bin:\$PATH oracle@hpgen9-01:~> java -version java version "1.8.0_221" Java(TM) SE Runtime Environment (build 1.8.0_221-b11) Java HotSpot(TM) 64-Bit Server VM (build 25.221-b11, mixed mode) oracle@hpgen9-01:~>

## **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\_191 and later is installed.

1-2. Log in to the target system (SUSE Linux Enterprise Server 15 SP1 64-bit OS) as a non-admin user. Download the Oracle WebLogic Server 12cR2 (12.2.1.4.0) from <a href="https://www.oracle.com/downloads/#category-middleware">https://www.oracle.com/downloads/#category-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 this .zip (fmw\_12.2.1.4.0\_wls\_Disk1\_1of1.zip) file and launch the installation program by running 'java -jar fmw\_12.2.1.4.0\_wls.jar'

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

1). Installation Inventory Setup.

Oracle Fusion Middleware 12c WebLogic Installation ×					
Installation Inven	tory Setup				
Central Inventory Directory Enter the Central inventory of inventory directory if it does	directory for all your oracle installatio not exist.	ns.The installer will create a new c	entral		
Inventory Directory:	/home/oracle/oralnventory Enter the full path for the directory		Browse		
Operating System Group :	oinstall Specify a group with write permiss	ion to the inventory directory			
pointer file, which is used t	le (createCentralInventory.sh) in the inv o identity the location of the central i such as patching and upgrade.				
Help		<u>0</u> K	Cancel		

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.

#### 2). Welcome.

Oracle Fusior	Middleware 12c WebLogic Server and Cohe	rence Installation - Step 1 of 8	×
Welcome			
🖉 Welcome			
Auto Updates	Welcome to the Oracle Fusion Middleware 12c (12.2.1	1.4.0) WebLogic Server and Coherence In	staller.
Installation Location	Use this installer to create a new Oracle home that co Coherence software. You can use this software to cor		
Installation Type	of Java applications.		
Prerequisite Checks	For more information, see Install, Patch, and Upgrade	in the Oracle Fusion Middleware docume	entation library.
Installation Summary	Context-sensitive online help is available from the $\underline{H}el$	p button.	
Installation Complete			
	Copyright © 1996, 2019, Oracle and/or its affiliates. All	l rights reserved.	
Help		< Back Next > Fin	ish Cancel

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 Fusion Middleware 12c WebLogic Server 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 <u>A</u> uto Updates   Select patches from <u>directory</u> Location:   Search <u>My</u> Oracle Support for Updates   Username:   Password:   Proxy Settings     Search		E Browse	
Help		< Back	Finish Cancel	

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

7

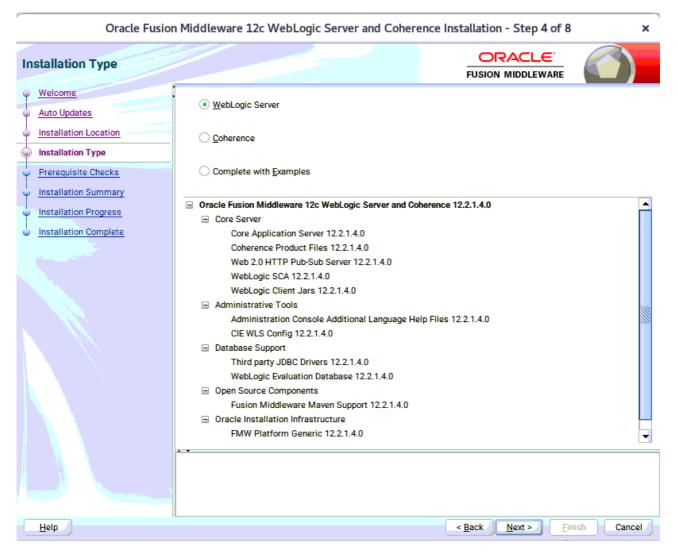
### 4). Installation Location.

r

	on Middleware 12c WebLogic Server and Coherence Installation - Step 3 of 8 ×
Installation 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	
<ul> <li>Installation Complete</li> </ul>	
	The Oracle Home /home/oracle/Oracle/Middleware/Oracle_Home will be used for all Oracle Feature Sets in this installation.
	This page only shows Feature Sets installed at the selected Oracle Home. It does not show Feature Sets installed anywhere else.
Help	< <u>Back</u> <u>Enish</u> Cancel

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

#### 5). Installation Type.



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

### 6). Prerequisite Checks.

Oracle Fusion N	Middle	ware 12c WebLogic Server and Coherence Installation - Step 5 of 8		×
Prerequisite Checks		ORACLE FUSION MIDDLEWARE		
Welcome				
Auto Updates		100%		
Installation Location	<b>v</b>	Checking operating system certification		1
Installation Type	<b>v</b>	Checking Java version used to launch the installer		-
Prerequisite Checks				
Installation Summary				-
Installation Progress				
U Installation Complete				
		·		
	Stop	Rerun Skip View Successful Tasks	View Log	-
	Ex	cking operating system certification pected result: One of oracle-6, oracle-7, redhat-7, redhat-6, SuSE-11, SuSE-12, SuSE-15		
		tual Result: SuSE-15-SP1 leck complete. The overall result of this check is: Passed		
	-	cking Java version used to launch the installer		
		pected result: 1.8.0_191 tual Result: 1.8.0_221		
	Cł	eck complete. The overall result of this check is: Passed		
Help		< Back Next > Fin	ish Cano	cel

Prerequisite Checks results will be shown as above, Oracle Fusion Middleware 12c is certified on SLES 15(+), click **Next** to continue.

#### 7). Installation Summary.

nstallation Summary	
<u>Welcome</u> <u>Auto Updates     Installation Location     Installation Type     <u>Prerequisite Checks     Installation Summary     Installation Progress     Installation Complete </u></u>	<ul> <li>Install Oracle Fusion Middleware 12c WebLogic Server and Coherence</li> <li>Installation Location         Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home         Log File Location: /home/oracle/Oracle/Middleware/Oracle_Home         Core Application Server 12.2.1.4.0         Coherence Product Files 12.2.1.4.0         WebLogic Client Jars 12.2.1.4.0         WebLogic Client Jars 12.2.1.4.0         WebLogic Client Jars 12.2.1.4.0         OPatch 13.9.4.2.1         Administration Console Additional Language Help Files 12.2.1.4.0         ClE WLS Config 12.2.1.4.0         Third party JDBC Drivers 12.2.1.4.0         WebLogic Evaluation Database 12.2.1.4.0         WebLogic Evaluation Database 12.2.1.4.0         Save Response File         Select Install to accept the above options and start the installation.         Select Install to accept the above options and start the installation.</li> <li>To change the above options before starting the installation, select the option to change in the left pane or use th Back button.</li> </ul>

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 Fusion M	iddleware 12c WebLogic Server and Coherence Installation - Step 7 of 8
Installation Progress	
9 Welcome	
Auto Updates	100%
Installation Location	A Deces
Installation Type	Prepare     Copy
Prerequisite Checks	
Unstallation Summary	
Installation Progress	
Installation Complete	
	•
	Post install scripts
	View Messages View Log
	Hardware and Software Engineered to Work Together
Help	< Back Next > Finish 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.

Oracle Fusior	Middleware 12c WebLogic Server and Cohere	ence Installation - Step 8 of 8	×
Installation Complete			
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 Oracle Home Location</li> <li>Oracle Home Location: /home/oracle/Oracle/N Log File Location: /tmp/Oralnstall2019-10-15_03</li> <li>Feature Sets Installed Successfully</li> <li>Core Application Server 12.2.1.4.0</li> <li>Coherence Product Files 12.2.1.4.0</li> <li>WebLogic SCA 12.2.1.4.0</li> <li>WebLogic Client Jars 12.2.1.4.0</li> <li>OPatch 13.9.4.2.1</li> <li>Administration Console Additional Language Hete</li> <li>CIE WLS Config 12.2.1.4.0</li> <li>Third party JDBC Drivers 12.2.1.4.0</li> <li>Fusion Middleware Maven Support 12.2.1.4.0</li> </ul>	Middleware/Oracle_Home )2-40-17PM/install2019-10-15_02-40-17PM.log	
	Next Step(s): <u>Automatically Launch the Configuration Wizard</u> Oracle Fusion Middleware 12c WebLogic Server and Coher	rence installation completed successfully	
Help		< Back Next > Finish Ca	ancel

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.

Fusion Middleware Configuration Wizard - Page 1 of 8

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

1). Configuration Type.

Configuration Type	
🙊 Create Domain	
Lemplates	
Administrator Account	
Domain Mode and JDK	
Advanced Configuration	
Configuration Summary	
O Configuration Progress	What do you want to do?
O End Of Configuration	Create a new domain
	O Update an existing domain
	Domain Location: racle/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain
	Create a new domain.
<u>H</u> elp	< Back Next > Finish Cancel

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

#### 2). Templates.

•

<b>,</b>	Fusion Middleware Configuration Wizard - Page 2 of 8 ×
Templates	
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Create Domain Using Product Templates:   Filter Templates: Type here   Include all selected templates Include all previously applied templates   Available Templates   Basic WebLogic Server Domain [wlserver] *   WebLogic Advanced Web Services for JAX-RPC Extension [oracle_common]   WebLogic Advanced Web Services for JAX-WS Extension [oracle_common]   WebLogic Coherence Cluster Extension [wlserver]   (Create Domain Using Custom Template:
	Template location: /home/oracle/Oracle/Middleware/Oracle_Home Browse
Help	< <u>Back</u> <u>Next</u> <u>Finish</u> 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.

r	Fusion Middle	ware Configuration Wizard	- Page 3 of 8	×
Administrator Account				
Create Domain	•			
Templates				
Administrator Account				
Domain Mode and JDK				
Advanced Configuration				
Configuration Summary				
Configuration Progress				
O End Of Configuration	Name	weblogic		
	Password			
	Confirm Password	•••••		
	Must be the same as	s the password. Password must cont	ain at least 8 alphanumeric characte	ers with at least one
	Must be the same as number or special ch		ain at least 8 alphanumeric characte	rs with at least one
Help			< <u>B</u> ack <u>N</u> ext > E	inish 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	, and do not poll for applications to deploy. E_SW/Java/jdk1.8.0_221	Browse
Help		< <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	
<u>H</u> elp	L	< <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		2		
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	View: Deployment → base_domain (/home/oracle/Oracle/Middleware/Ora → AdminServer AdminServer	Description	Oracle Corporation /home/oracle/Ora WebLogic Coheren Extend an existing Oracle Corporation	bLogic Server domai 1 cle/Middleware/Ora 1ce Cluster Extension WebLogic Server do
	Select Create to accept the above options and start create configuration before starting Domain Creation, go back to by using the <b>Back</b> button.	ting and configurin		

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

### 7). Configuration Progress.

	Fusion Middleware Configuration Wiza	ard - Page 7 of 8	×
Configuration Progress			
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	<ul> <li>Copy Unprocessed Artifacts</li> <li>Security Processing</li> <li>Artifacts Generation</li> <li>String Substitution</li> <li>Post Processing</li> </ul>		
Help		< <u>B</u> ack <u>N</u> ext > <u>F</u> init	sh Cancel

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

### 8). End Of Configuration.

End Of Configuration	Fusion Middleware Configuration Wizard	ORACLE	×
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress Configuration Progress	Oracle Weblogic Server Configuration Succeeded New Domain Location /home/oracle/Oracle/Middleware/Oracle_H Admin Server URL http://hpgen9-01:7001/console	FUSION MIDDLEWARE	main
Help		< <u>B</u> ack <u>N</u> ext > <u>Fini</u>	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

oracle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain	ı/bin ×
File Edit View Search Terminal Tabs Help	
oracle@hpgen9-01:/home/oracle/ORACLE_SW/WebLogic/ × oracle@hpgen9-01:/home/oracle/Oracle/Middleware/	Oracl × 🖭 👻
> <oct 15,="" 2019="" 2:52:47,409="" gmt+08:00="" pm=""> <notice> <weblogicserver> <bea-000365> <server cl<br="" state="">.&gt;</server></bea-000365></weblogicserver></notice></oct>	hanged to STARTING
<oct 15,="" 2019="" 2:52:47,454="" gmt+08:00="" pm=""> <notice> <log management=""> <bea-170036> <the logging="" mo<br="">imer has started to check for logged message counts every 30 seconds.&gt;</the></bea-170036></log></notice></oct>	nitoring service t
<pre><oct 15,="" 2019="" 2:52:48,132="" gmt+08:00="" pm=""> <notice> <log management=""> <bea-170027> <the has<br="" server="">blished a connection with the Domain level Diagnostic Service.&gt;</the></bea-170027></log></notice></oct></pre>	successfully esta
<pre><oct 15,="" 2019="" 2:52:48,307="" gmt+08:00="" pm=""> <notice> <weblogicserver> <bea-000365> <server 15,="" 2019="" 2:52:48,367="" <oct="" cl="" gmt+08:00="" pm="" state=""> <notice> <weblogicserver> <bea-000365> <server cl="" state=""></server></bea-000365></weblogicserver></notice></server></bea-000365></weblogicserver></notice></oct></pre>	
<pre><oct 15,="" 2019="" 2:52:48,417="" gmt+08:00="" pm=""> <warning> <server> <bea-002611> <the "localhos="" 0:0:0:0:0:0:0:1.="" 127.0.0.1,="" addresses:="" hostname="" ip="" ple=""></the></bea-002611></server></warning></oct></pre>	, .
<pre><oct 15,="" 2019="" 2:52:48,419="" gmt+08:00="" pm=""> <notice> <server> <bea-002613> <channel "default[2]"="" i:<br="">127.0.0.1:7001 for protocols iiop, t3, ldap, snmp, http.&gt; <oct 15,="" 2019="" 2:52:48,420="" gmt+08:00="" pm=""> <notice> <server> <bea-002613> <channel "default[1]"="" i:<="" pre=""></channel></bea-002613></server></notice></oct></channel></bea-002613></server></notice></oct></pre>	Ŭ
<pre>cloce 10, 2010 2:05:10,420 PM GMT+08:000 inor 13, ldap, snmp, http.&gt; <oct 15,="" 2019="" 2:52:48,420="" gmt+08:00="" pm=""> <notice> <weblogicserver> <bea-000331> <started the="" weblogicserver=""></started></bea-000331></weblogicserver></notice></oct></pre>	
nistration Server "AdminServer" for domain "base_domain" running in development mode.> <oct 15,="" 2019="" 2:52:48,420="" gmt+08:00="" pm=""> <notice> <server> <bea-002613> <channel "default"="" is="" no<="" td=""><td>ow listening on 14</td></channel></bea-002613></server></notice></oct>	ow listening on 14
7.2.207.96:7001 for protocols iiop, t3, ldap, snmp, http.> <oct 15,="" 2019="" 2:52:48,421="" gmt+08:00="" pm=""> <notice> <server> <bea-002613> <channel "default[2]"="" i:<br="">127.0.0.1:7001 for protocols iiop, t3, ldap, snmp, http.&gt;</channel></bea-002613></server></notice></oct>	s now listening on
<pre><oct 15,="" 2019="" 2:52:48,422="" gmt+08:00="" pm=""> <notice> <server> <bea-002613> <channel "default[1]"="" i:<br="">0:0:0:0:0:0:0:1%lo:7001 for protocols iiop, t3, ldap, snmp, http.&gt;</channel></bea-002613></server></notice></oct></pre>	Ŭ
<pre>&lt;0ct 15, 2019 2:52:48,422 PM GMT+08:00&gt; <notice> <server> <bea-002613> <channel "default"="" is="" no<br="">7.2.207.96:7001 for protocols iiop, t3, ldap, snmp, http.&gt;</channel></bea-002613></server></notice></pre>	
<pre>&lt;0ct 15, 2019 2:52:48,431 PM GMT+08:00&gt; <notice> <weblogicserver> <bea-000360> <the de.="" server="" stai=""> </the></bea-000360></weblogicserver></notice></pre> <pre>&lt;0ct 15, 2019 2:52:48,460 PM GMT+08:00&gt; <notice> <weblogicserver> <bea-000365> <server <="" cl="" pre="" state=""></server></bea-000365></weblogicserver></notice></pre>	
>	hanged to konning.

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 Administration Console	- Mozilla Firefox			>
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp				
○ Oracle Fusion Middleware × ☐ login.oracle.com/oaam_se × ○ Oracle Fusion Middle	ware × Oracle Webl	.ogic Server Adm 🗙	+	
← → C û ③ 🔏 http://hpgen9-01:7001/console/login/LoginForm.jsp	90% (	2 ☆	± ∥\	E
ORACLE WebLogic Server Administration Console 12c				
		Welcome		
	Log in to work with t	he WebLogic Server domain		
	Username:	weblogic		
	Password:	•••••		
			Login	
WebLogic Server Version: 12.2.1.4.0 Copyright (c) 1996,2019, 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.				

## Viewing WebLogic Server Admin Console - Home page

	5	Summary of	Servers - b	ase_domain - W	LS Console	- Mozilla Fire	efox			3	<
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>E</u>	ookmarks	<u>T</u> ools	<u>H</u> elp								
Oracle Fusion Middleware ×	🖸 login.	oracle.com/c	baam_se X	Oracle Fus	on Middlewa	are x Sum	mary of Server	rs - base_c	× +		
$\leftrightarrow$ > C $\textcircled{a}$	) http://h	pgen9-01:70	001/console	/console.portal?	_nfpb=t	90%	… ◙ ☆	]	⊥ ∥	\ 🖽 🗄	Ξ
	ministration (	Console 12c								Q	T
Change Center	🔒 Home	Log Out Preferen	nces 📐 Record	Help	Q		We	lcome, weblogi	Connected 1	o:base_domain	1
View changes and restarts	Home >S	ummary of Servers									ľ
Configuration editing is enabled. Future changes	Summary	of Servers									
will automatically be activated as you modify, add or delete items in this domain.	Configur	ation Control									
Domain Structure base_domain ⊕ -Domain Partitions ⊕ -Environment → Deployments	This pag		-	at runs in its own Java Vir een configured in the cur			figuration.				
<ul> <li>Security Realms</li> <li>Interoperability</li> <li>Diagnostics</li> </ul>	es Q ty Realms perability Customize this table 0										
	New	Clone Delete						Showing 1 t	o1of1 Previ	ous   Next	I
		Name 💫		Туре	Cluster	Machine	State	Health	Listen Port		
		AdminServer(admi	in)	Configured			RUNNING	🗸 ок	7001		
How do I 🗉	New	Clone Delete	1	- 1				Showing 1 t	olof1 Previ	ous Next	
Create Managed Servers     Clone servers											I
Cone servers     Delete Managed Servers											I
Delete the Administration Server											I
Start and stop servers											I
View objects in the JNDI tree											ł
System Status											
Health of Running Servers as of 2:56 PM											
Failed (0) Critical (0)											

End of Oracle WebLogic Server Software.

*Oracle 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\_191 and later installed.
- 3). Oracle WebLogic Server 12cR2 (12.2.1.4.0) (Fusion Middleware Infrastructure Installer)

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

3-1). Installation Inventory Setup.

Installation Inve	ntory Setup		
Central Inventory Directo Enter the Central inventor inventory directory if it do	y directory for all your oracle installati	ions.The installer will create a new central	
Inventory Directory:	/home/oracle/oralnventory Enter the full path for the director	Browse	
	Enter the run path for the areator	y.	
Operating System Group	•	·	

Specify the Oracle inventory directory and group permissions for that directory. The group must have write permissions to the Oracle inventory directory, then click **OK** to continue.

#### 3-2). Welcome.

elcome	
Welcome	
Auto Updates	Welcome to the Oracle Fusion Middleware 12c (12.2.1.4.0) 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.
Installation Summary	For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware documentation library.
nstallation Progress	Context-sensitive online help is available from the Help button.
Installation Complete	
	Copyright © 1996, 2019, Oracle and/or its affiliates. All rights reserved.

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

7

#### 3-3). Installation Location.

r

Installation Location       Oracle Home:         Welcome       Oracle Home:         Auto Updates       /home/oracle/Oracle/Middleware/Oracle_Home         Installation Location       Feature Sets Installed At Selected Oracle Home:         Installation Type       No Features are installed at selected Oracle Home.	
Auto Updates     Installation Location     Installation Type     No Features are installed at selected Oracle Home.     View     No Features are installed at selected Oracle Home.	✓ Browse
Installation Type     Installation Type     No Features are installed at selected Oracle Home. <u>View</u> No Features are installed at selected Oracle Home.	Browse
No Features are installed at selected Uracle Home.	
Braze suisite Checke	
Prerequisite Checks	
unstallation Summary	
Installation Progress	
Unstallation Complete	
The Oracle Home /home/oracle/Oracle/Middleware/Oracle_Home will be used for all 0 installation.	racle Feature Sets in this
This page only shows Feature Sets installed at the selected Oracle Home.	
It does not show Feature Sets installed anywhere else.	
Help < Back Next >	EinishCancel

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

#### 35

### 3-4). Installation Type.

Installation Type	
<u>Welcome</u> Auto Updates	☐ Fusion <u>M</u> iddleware Infrastructure With Examples
Installation Location	Eusion Middleware Infrastructure
Prerequisite Checks Installation Summary Installation Progress Installation Complete	<ul> <li>Oracle Fusion Middleware 12c Infrastructure 12.2.1.4.0</li> <li>Core Server</li> <li>Core Application Server 12.2.1.4.0</li> <li>Coherence Product Files 12.2.1.4.0</li> <li>Web 2.0 HTTP Pub-Sub Server 12.2.1.4.0</li> <li>WebLogic SCA 12.2.1.4.0</li> <li>WebLogic Client Jars 12.2.1.4.0</li> <li>Administrative Tools</li> <li>Administration Console Additional Language Help Files 12.2.1.4.0</li> <li>CIE WLS Config 12.2.1.4.0</li> <li>Enterprise manager 12.2.1.4.0</li> <li>Database Support</li> <li>Third party JDBC Drivers 12.2.1.4.0</li> <li>Open Source Components</li> <li>Fusion Middleware Maven Support 12.2.1.4.0</li> <li>JRF and Enterprise Manager</li> <li>WLS for FMW 12.2.1.4.0</li> <li>Oracle Automatic Diagnostic Repository Feature Set Group</li> <li>FMW Platform Generic 12.2.1.4.0</li> </ul>
	OPatch 13.9.4.2.1 Toplink Developer 12.2.1.4.0

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

### 3-5). Installation Complete.

nstallation Complete			
Welcome	Install Oracle Fusion Middleware 12c Infrastructure		
Auto Updates	Installation Location		
Installation Location	Oracle Home Location: /home/oracle/Oracle/M	liddleware/Oracle_Home	
Installation Location	Log File Location: /tmp/Oralnstall2019-10-23_03	3-03-57PM/install2019-10-23_03-03-57	PM.log
Installation Type	Feature Sets Installed Successfully		
Prerequisite Checks	Administration Console Additional Language He	lp Files 12.2.1.4.0	
	CIE WLS Config 12.2.1.4.0		
Installation Summary	Enterprise manager 12.2.1.4.0		
Installation Progress	FMW Platform Generic 12.2.1.4.0		
Installation Complete	OPatch 13.9.4.2.1		
Installation Complete	Toplink Developer 12.2.1.4.0		
	WLS for FMW 12.2.1.4.0		
	Core Application Server 12.2.1.4.0		
	Coherence Product Files 12.2.1.4.0		
	Web 2.0 HTTP Pub-Sub Server 12.2.1.4.0		
	WebLogic SCA 12.2.1.4.0		
	WebLogic Client Jars 12.2.1.4.0		
	Third party JDBC Drivers 12.2.1.4.0		
	WebLogic Evaluation Database 12.2.1.4.0		
	Fusion Middleware Maven Support 12.2.1.4.0		
	Next Step(s): See the online help for next steps after installation.		
	Oracle Fusion Middleware 12c Infrastructure installation co	ompleted successfully	
Help	IL	< Back Next > Fi	inish Cancel

1-2. Log in to the target system (SUSE Linux Enterprise Server 15 SP1 64-bit OS) as a non-admin user. Download the Oracle Forms and Reports 12c (12.2.1.4.0) from <a href="https://www.oracle.com/downloads/#category-middleware">https://www.oracle.com/downloads/#category-middleware</a>.

(Note: Please ensure the 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 ('V983392-01\_1of2.zip' and 'V983392-01\_2of2.zip') files and launch the installation program by running '**fmw\_12.2.1.4.0\_fr\_linux64.bin**'.

For the actual installation, follow the steps below:

## 1). Welcome page.

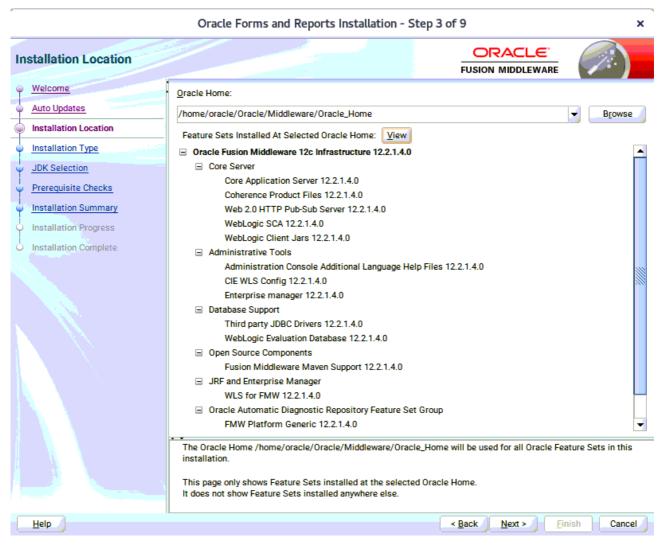
r	Oracle Forms and Reports Installation - S	Step 1 of 9 ×
Welcome		
Welcome         Auto Updates         Installation Location         Installation Type         JDK Selection         Prerequisite Checks         Installation Summary         Installation Progress         Installation Complete	Welcome to Oracle Fusion Middleware 12c (12.2.1.4.0) For more information, see <u>Install, Patch, and Upgrade</u> in Context-sensitive online help is available from the <u>H</u> elp	Oracle Forms and Reports Installer. n the Oracle Fusion Middleware documentation library.
	Copyright (c) 1999, 2019, Oracle and/or its affiliates. All	l rights reserved.
Help		< Back Next > Finish Cancel

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

r	Oracle Forms and Reports Installation	- Step 2 of 9 ×
Auto Updates		
Welcome     Auto Updates	<ul> <li>Skip <u>A</u>uto Updates</li> <li>Select patches from <u>directory</u></li> </ul>	
Installation Location     Installation Type     JDK Selection	Location:	Browse
Prerequisite Checks     Installation Summary	Search My Oracle Support for Updates       Username:       Password:	
Installation Progress     Installation Complete	Proxy Settings	Test Connection
Help		< Back Next > Finish Cancel

## 2). The Auto Updates page appears.

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.



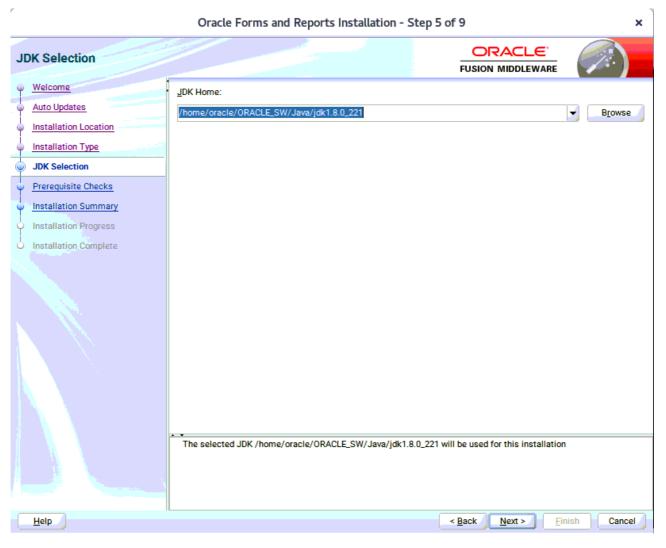
#### 3). The Installation Location page appears.

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

r	Oracle Forms and Reports Installation - Ste	p 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 Forms Builder</li> <li>● Forms and Reports Deployment</li> <li>■ Oracle Forms and Reports 12.2.1.4.0</li> <li>■ Forms</li> <li>Oracle Forms Builder 12.2.1.4.0</li> <li>■ Reports</li> <li>Oracle Reports 12.2.1.4.0</li> <li>■ OHS</li> <li>Oracle Common Configuration Infrastructure</li> <li>CIE CAM Shared Config 12.2.1.4.0</li> <li>■ Infrastructure</li> <li>Database Client LDAP Extended Components 12.2.1</li> <li>OPatch 13.9.4.2.1</li> </ul>	.4.0	
Help		< Back Next > Fir	nish Cancel

## 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.



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

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

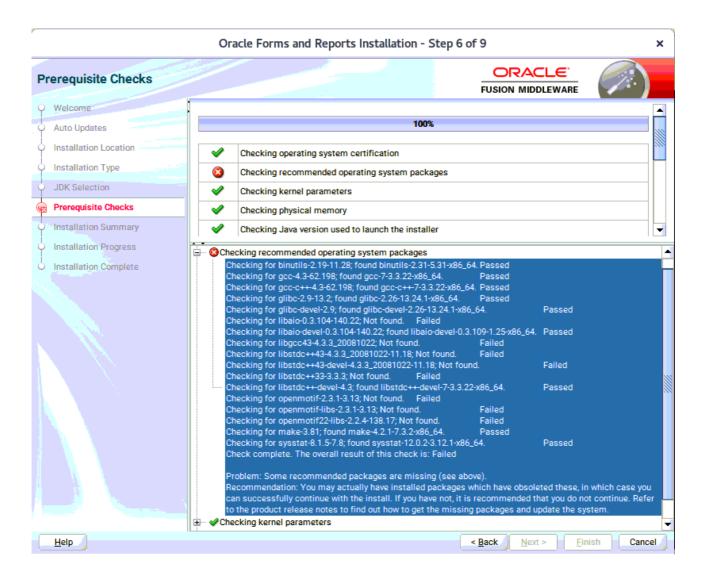
## 6). The **Prerequisite Checks** page appears.

r

7	Oracle Forms and Reports Installation - Step 6 of 9	×				
Prerequisite Checks						
Q Welcome						
Auto Updates	100%					
Installation Location	Checking operating system certification					
Installation Type	Checking recommended operating system packages					
JDK Selection	Checking kernel parameters					
Reference Prerequisite Checks	Checking physical memory					
O Installation Summary	<ul> <li>Checking Java version used to launch the installer</li> </ul>					
Installation Progress						
O Installation Complete						
	Stop Rerun Skip	Normal and				
	Stop Rerun Skip	View <u>L</u> og				
	Ochecking recommended operating system packages					
	Checking Java version used to launch the installer					
Help	< Back Next > Finish	Cancel				

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

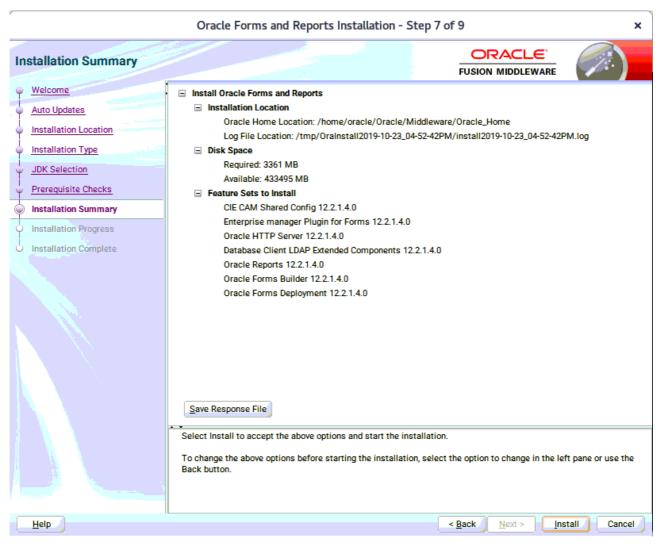
(Note: "Checking recommended operating system packages" failed with following error:



This issue caused by the different naming of these packages on SLES 15 (SP1). Oracle FUSION Middleware 12c (12.2.1.4) is certified on SLES15 (SP1), please make sure that the following packages are installed:

binutils-2.29.1-4.46.x86\_64 gcc7-ada-7.3.1+r258812-2.15.x86\_64 gcc-c++-7-1.563.x86\_64 gcc-ada-7-1.563.x86\_64 gcc-locale-7-1.563.x86\_64 gcc-locale-7-1.563.x86\_64 gcc-r1.563.x86\_64 gcc7-c++-7.3.1+r258812-2.15.x86\_64 gcc7-info-7.3.1+r258812-2.15.x86\_64 gcc7-locale-7.3.1+r258812-2.15.x86\_64 gcc7-c++-32bit-7.3.1+r258812-2.15.x86\_64 gcc7-32bit-7.3.1+r258812-2.15.x86\_64 glibc-2.26-11.8.x86 64 linux-glibc-devel-4.15-1.47.noarch glibc-devel-2.26-11.8.x86\_64 glibc-locale-2.26-11.8.x86\_64 glibc-extra-2.26-11.8.x86 64 glibc-32bit-2.26-11.8.x86\_64 glibc-devel-32bit-2.26-11.8.x86 64 mksh-56c-1.10.x86 64 libaio1-0.3.109-1.25.x86\_64 libaio1-32bit-0.3.109-1.25.x86\_64 libaio-devel-32bit-0.3.109-1.25.x86\_64 libaio-devel-0.3.109-1.25.x86\_64 libcap2-2.25-2.41.x86\_64 libcap-ng0-0.7.9-1.42.x86\_64 libcap2-32bit-2.25-2.41.x86\_64 libstdc++6-7.3.1+r258812-2.15.x86 64 libstdc++6-devel-gcc7-7.3.1+r258812-2.15.x86 64 libstdc++6-32bit-7.3.1+r258812-2.15.x86\_64 libstdc++6-devel-gcc7-32bit-7.3.1+r258812-2.15.x86\_64 libstdc++6-locale-7.3.1+r258812-2.15.x86\_64 libstdc++-devel-7-1.563.x86\_64 libgcc\_s1-7.3.1+r258812-2.15.x86\_64 libgcc\_s1-32bit-7.3.1+r258812-2.15.x86\_64 make-4.2.1-5.48.x86 64 make-lang-4.2.1-5.48.noarch makedumpfile-1.6.3-5.6.x86\_64 xorg-x11-7.6 1-1.22.noarch xorg-x11-server-1.19.6-6.19.x86\_64 xorg-x11-fonts-7.6-3.9.noarch xorg-x11-driver-video-7.6 1-2.30.x86 64 xorg-x11-Xvnc-1.8.0-11.23.x86\_64 xorg-x11-fonts-core-7.6-3.9.noarch xorg-x11-server-extra-1.19.6-6.19.x86 64 xorg-x11-essentials-7.6\_1-1.22.noarch

)



#### 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.

r	Oracle Forms and Reports Installation -	Step 8 of 9 ×
Installation Progress		
Q Welcome		
Auto Updates	1	00%
Installation Location	a -	
Installation Type	Prepare	
JDK Selection	✓ Сору	
Prerequisite Checks	Generating Libraries	
Q Installation Summary	Performing String Substitutions	
Installation Progress	Linking	
Installation Complete	✓ Setup	
- Instantion complete	Saving the inventory	
	Post install scripts	
	View Messages	w Successful Tasks View Log
		Hardware and Software Engineered to Work Together
Help		< Back Next > Einish 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.

Oracle Forms and Reports Installation - Step 9 of 9			
Installation Complete			
Welcome	Install Oracle Forms and Reports		
Auto Updates	Installation Location		
Installation Location	Oracle Home Location: /home/oracle/Oracle/N Log File Location: /tmp/OraInstall2019-10-23_0		A.log
Installation Type	Feature Sets Installed Successfully		
<ul> <li>JDK Selection</li> </ul>	CIE CAM Shared Config 12.2.1.4.0		
U JDK Selection	Enterprise manager Plugin for Forms 12.2.1.4.0	1	
<ul> <li>Prerequisite Checks</li> </ul>	Oracle HTTP Server 12.2.1.4.0		
i • Installation Summary	Database Client LDAP Extended Components 12	2.2.1.4.0	
	Oracle Reports 12.2.1.4.0		
Installation Progress	Oracle Forms Builder 12.2.1.4.0		
Installation Complete	Oracle Forms Deployment 12.2.1.4.0		
	OPatch 13.9.4.2.1		
	Next Step(s):		
	1. Create a domain using the Configuration Wizard.		
	2. Start Node Manager and Domain Servers.		
	Reference Installing and Configuring Oracle Forms & Rep	ports available on OTN for detailed instru	ictions.
	Oracle Forms and Reports installation completed success	sfully	
	IL	< <u>B</u> ack <u>N</u> ext > <u>Fini</u>	sh Cancel

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.

Screenshot: Database schemas creating for Oracle Forms and Reports.

r	Repository Crea	tion Utility - Step 4 of 8	•	×
Repository Creation Utility				7)
Welcome	Specify a unique prefix for all sche schemas later.	emas created in this session, so yo	ou can easily locate, reference, and ma	anage the
Create Repository     Database Connection Details	Select existing prefix:	[		•
Select Components	Create new prefix:	DEV		
Schema Passwords		Alpha numeric only. Cannot st	art with a number. No special charact	ters.
<u>Map Tablespaces</u> <u>Summary</u>	Component		Schema Owner	
Completion Summary	Oracle AS Repository     AS Common Sche	mas		
		structure Services * n Security Services	DEV_STB DEV_OPSS	
	User Messaging	g Service	UMS DEV_IAU	
	Audit Services		DEV_IAU_APPEND DEV_IAU_VIEWER	
	Metadata Servi	ces	MDS	
	Weblogic Servic	ces *	DEV_WLS	
	* Mandatory component. Mar	ndatory components cannot be des	elected.	
Help			< Back Next > Finish	Cancel

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**\*.

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

Ensure the schema creation is successful.

	Repository (	Creation Utility -	Step 8	of 8		×
Repository Creation Utility						\$
Q Welcome	Database details:					
Create Repository	Host Name	hpgen9-01				
Database Connection Details	Port	1521				
Q Select Components	Service Name	SUSE				
	Connected As	sys				
Schema Passwords	Operation	System and Data Lo	oad conci	urrently		
Map Tablespaces	Execution Time	2 minutes 21 seco	onds			
Summary	DOUL - CL					
Completion Summary	RCU Logfile			81299661/logs/rcu.log		
	Component Log Directory View Log	/tmp/RCU2019-10- rcu.log	23_17-10	_81299661/logs		
	Prefix for (prefixable) Schem Owners	IA DEV				
	Component		Status	Time	Logfil	e(Click to view)
	Common Infrastructure Serv			00:09.998(sec)		stb.log
	Oracle Platform Security Se Audit Services	rvices Succe Succe		00:42.688(sec) 00:24.700(sec)		opss.log
	Audit Services Append	Succe		00:24.700(sec) 00:09.482(sec)	iau	append.log
	Audit Services Viewer	Succe		00:09.449(sec)		_viewer.log
	Weblogic Services	Succe	ess	00:29.816(sec)		wls.log
Help				< <u>B</u> ack <u>N</u> ext	> <u>C</u> re	ate <u>C</u> lose

# 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 Configuration Wizard - Page 1 of 8			
Configuration Type				
🙊 Create Domain				
<u> </u>				
Administrator Account				
Domain Mode and JDK				
Advanced Configuration				
Configuration Summary				
Configuration Progress	What do you want to do?			
End Of Configuration	Create a new domain			
	O Update an existing domain			
	Domain Location: racle/Oracle/Middleware/Oracle_	Home/user_projects/domains/base_domain	Browse	
Help		< <u>B</u> ack <u>N</u> ext > <u>F</u> inish	Cancel	

### 2). The Templates screen appears.

	Fusion Middleware Configuration Wizard - Page 2 of 12			
Templates				
Create Domain Femplates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	<ul> <li>Create Domain Using Product Templates:</li> <li>Filter Templates: Type here</li> <li>Include all selected templates</li> <li>Available Templates</li> <li>Basic WebLogic Server Domain [wlserver] *</li> <li>Oracle Forms Application Deployment Service (FA</li> <li>Oracle Forms [forms]</li> <li>Oracle Forms (upgrade only) [forms]</li> <li>Oracle Reports Application (reports]</li> <li>Oracle Enterprise Manager [em]</li> <li>Oracle Enterprise Manager-Restricted JRF [em]</li> <li>Oracle HTTP Server (Collocated) [ohs]</li> <li>Oracle Reports Tools [Reports ToolsComponent]</li> <li>Create Domain Using Custom Template:</li> <li>Template location: //home/oracle/Oracle/Middlewar</li> </ul>	DS) [forms]		
Help		< Back Next > Finish Cancel		

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

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

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

r	Fusion Middlew	are Configuration Wizard -	Page 3 of 12	×
Application Location				
Create Domain	•			
Examplates				
Application Location				
<u>Administrator Account</u>				
Domain Mode and JDK				
Database Configuration Type				
Component Datasources				
<u>JDBC Test</u>	Domain name:	base_domain		
Advanced Configuration	Domain location:		/Oracle_Home/user_projects/domains	
Configuration Summary	Application location:	Oracle/Middleware/Oracle_Home	e/user_projects/applications/base_domain	Browse
Configuration Progress				
O End Of Configuration				
	· •			
<u>H</u> elp			< <u>Back Next &gt;</u> Finish	Cancel

3). The Application Location screen appears.

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

-	Fusion Middleware Configuration Wizard - Page 4 of 12						
1	Administrator Account						
4	Create Domain						
$\mathbf{A}$	Templates						
9	Application Location						
0	Administrator Account						
Ý	Domain Mode and JDK						
ų	Database Configuration Type						
<b>.</b>	Component Datasources						
- <b>\</b>	JDBC Test	Name	weblogic				
$\mathbb{A}$	Advanced Configuration	Password					
Ý	Configuration Summary	Confirm Password					
Ý	Configuration Progress						
Ŕ	End Of Configuration						
		• •					
		Must be the same as number or special ch		ain at least 8 alphanumeric characters v	with at least one		
	Help			< <u>B</u> ack <u>N</u> ext > <u>F</u> inis	h 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.

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

-	Fusion Middleware Configuration Wizard	- Page 5 of 12	×
Domain Mode and JDK			
Create Domain Templates Application Location Administrator Account Omain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain Mode	d, and do not poll for applications to deploy.	SE
Help		< Back Next > Einish Can	:el

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.

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

r	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>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       Oriver: *Oracle's Driver (Thin) for Service connections; Versions:            • Connection Parameters Connection URL String          Host Name: hpgen9-01         DBMS/Service: suse       Port: 1521         Schema Owner: DEV_STB       Schema Password:
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.

r	Fusion Middleware Configuration Wizard - Page 7 of 12							
JDBC Component Schema								
Create Domain Templates	Vendor:	Di	river:					
Application Location	Onnection Parameters	O Connection	<u>U</u> RL String					
Administrator Account	Host Name:							
Domain Mode and JDK	DBMS/Service:	P	ort:					
Database Configuration Type	Schema Owner:	S	chema Password:					
Component Datasources	Oracle RAC configuration for o							
<u>JDBC Test</u> <u>Advanced Configuration</u> <u>Configuration Summary</u>	Convert to C	aridLink O C	onvert to RAC multi		🔵 Don't con	vert		
Configuration Progress	Component Schema	DBMS/Service	Host Name	Port	Schema Owner	Schema Password		
<ul> <li>End Of Configuration</li> </ul>	LocalSvcTbl Schema	SUSE	hpgen9-01	1521	DEV_STB			
	WLS Schema	SUSE	hpgen9-01	1521	DEV_WLS_RUN			
	OPSS Audit Schema	SUSE	hpgen9-01	1521	DEV_IAU_APPEI			
	OPSS Audit Viewer Sche		hpgen9-01	1521	DEV_IAU_VIEW			
	OPSS Schema	SUSE	hpgen9-01	1521	DEV_OPSS			
	+ •							
Help			< <u>B</u> a	ck <u>N</u> e	xt > <u>F</u> inis	h Cancel		

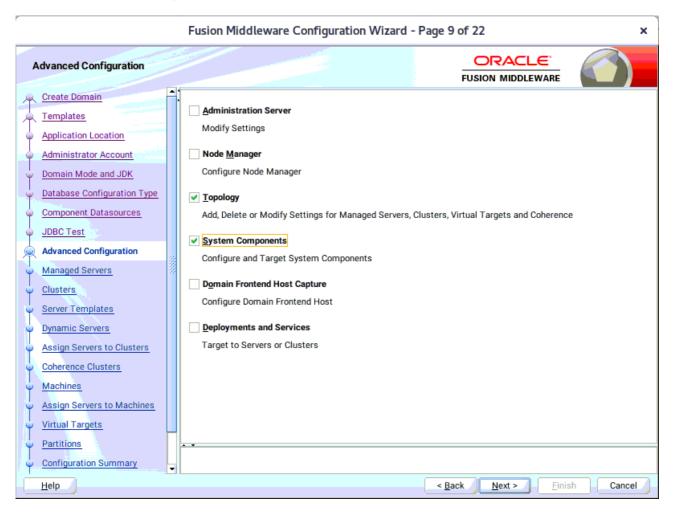
## 7). The JDBC Component Schema screen appears.

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

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

r	Fusion M	iddleware Configuration Wizard -	Page 8 of 12 ×
JDBC Component Schema Test			
Create Domain	V Status	Component Schema	JDBC Connection URL
Templates	<ul> <li>Image: Image: Ima</li></ul>	LocalSvcTbl Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE
Application Location	<ul> <li>Image: Image: Ima</li></ul>	WLS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE
	<ul> <li>Image: Image: Ima</li></ul>	OPSS Audit Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE
<u>Administrator Account</u>	<ul> <li>Image: Image: Ima</li></ul>	OPSS Audit Viewer Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE
Domain Mode and JDK	<ul> <li>Image: Image: Ima</li></ul>	OPSS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE
University of the Database Configuration Type			
Component Datasources			
JDBC Test			
Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Connection Component Driver=oracl URL=jdbc:or User=DEV_S Password=* SQL Test=S CFGFWK-64 CFGFWK-64	Schema=LocalSvcTbl Schema e.jdbc.OracleDriver acle:thin:@//hpgen9-01:1521/SUSE TB	
Help			< Back Next > Einish Cancel

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.

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

	Fusior	Middleware (	Configuration Wizar	d - Page 10	of 22		×
Managed Servers							
Create Domain Templates	Î 📭	Add E Clor	e 🔀 <u>D</u> elete			🔊 Dis <u>c</u>	ard Changes
Application Location     Administrator Account	s	erver Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Groups
Domain Mode and JDK	WLS_FO	RMS	All Local Addresses 💙	9001		Disabled	FORMS-MA
Database Configuration Type	WLS_RE	PORTS	All Local Addresses 💙	9002		Disabled	REPORTS-A
Component Datasources							
JDBC Test							
Advanced Configuration							
Managed Servers	100000						
Ulusters							
Server Templates							
Dynamic Servers							
Assign Servers to Clusters							
Coherence Clusters							
Machines							
Assign Servers to Machines							
Virtual Targets							
Partitions							
Configuration Summary	-						
Help				< <u>B</u> ac	:k <u>N</u> ext >	<u> </u>	Cancel

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.

T	Fusion Middleware Configuration Wizard - Page 11 of 22 ×						
Clusters					Ē		
Create Domain Templates		Add 🗙	Delete				Dis <u>c</u> ard Changes
Application Location		Cluster Name	Cluster Address	Fronter	nd Host	Frontend HTTP Port	Frontend HTTPS Port
Administrator Account		cluster_forms				0	0
Domain Mode and JDK		cluster_reports				0	0
Database Configuration Type							
Component Datasources							
JDBC Test							
Advanced Configuration	-						
Managed Servers	1000						
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 >	nish Cancel

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

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

12). Then Server Templates screen appears.

Fusion Middleware Configuration Wizard - Page 12 of 22						×
Server Templates						
Create Domain Templates		🕂 Add 🖉 🗙 Delete	]		Dis <u>c</u> ar	d Changes
<u>Application Location</u>		Name	Listen Port	SSL Listen Port		le SSL
Administrator Account     Domain Mode and JDK	1	wsm-cache-server-template	7100	8100		<b>v</b>
<u>Database Configuration Type</u> <u>Component Datasources</u>						
Advanced Configuration     Advanced Servers     Clusters	50000					
Server Templates						
Dynamic Servers         Assign Servers to Clusters         Coherence Clusters         Machines         Assign Servers to Machines         Virtual Targets         Partitions         Configuration Summary	-	•				
Help	-			< Back Next >	<u>F</u> inish	Cancel

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

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

	Fusion Mid	dleware C	onfiguration	n Wizard - I	Page 13 of 2	22		×
Dynamic Servers								
Create Domain							Dis <u>c</u> ar	d 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 Server Groups
Database Configuration Type	cluster_form	Disabled	Unspecifi	Disabled	Disabled			Unspecifi
Component Datasources	cluster_repor	Disabled	Unspecifi	Disabled	Disabled			Unspecifi•
Managed Servers     Clusters     Server Templates     Dynamic Servers								
Assign Servers to Clusters								
Coherence Clusters								
Machines								
Assign Servers to Machines								
Virtual Targets								
Partitions     Configuration Summary								
<u>H</u> elp					< <u>B</u> ack	<u>N</u> ext >	<u> </u>	Cancel

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

### 14). The Assign Servers to Clusters screen appears.

	Fusion Middleware Configuration Wizard -	Page 14 of 22 ×
Assign Servers to Clusters		
🔍 Create Domain	Servers	Clusters
Templates		စာ Cluster ခ စာ cluster_forms
Application Location		🖃 🧊 Server
Administrator Account		WLS_FORMS
Domain Mode and JDK		☐ Ò cluster_reports ☐ Server
Database Configuration Type		WLS_REPORTS
Component Datasources		
JDBC Test		
Advanced Configuration		
Managed Servers		
<u>Clusters</u>		
<ul> <li>Server Templates</li> </ul>		8
Dynamic Servers		
Assign Servers to Clusters		
Coherence Clusters		
Machines		
<ul> <li>Assign Servers to Machines</li> </ul>		
Virtual Targets		
	4	
<u>Partitions</u>	Select one or more servers in the left pane and one cluste	r in the right pane. Then use the right arrow button (>) to
<u>Configuration Summary</u>		· · · · · · · · · · · · · · · · · · ·
Help		< Back Next > Finish Cancel

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.

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r	Fusion Middleware Configuration Wizard - Page 15 of 22							
Coherence Clusters								
Create Domain Templates				_ <b>1</b> 2	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								
Component Datasources								
JDBC Test								
Advanced Configuration	1000							
<u>Managed Servers</u> Clusters	22							
Clusters     Server Templates								
Dynamic Servers								
Assign Servers to Clusters								
Coherence Clusters								
<ul> <li><u>Machines</u></li> </ul>								
Assign Servers to Machines								
<ul> <li><u>Virtual Targets</u></li> </ul>								
<u>Partitions</u> <u>Configuration Summary</u>	_	* *						
Help	-	L	< <u>B</u> ack	<u>N</u> ext > <u>Finis</u>	sh Cancel			

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

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

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

Machines	Fusion Middleware Configur		
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 Coherence Clusters Machines Assign Servers to Machines Virtual Targets Partitions Configuration Summary	Machine Unix Machine	Node Manager Listen Address	Node Manager Listen Port 5556
Help		< Back	Next > Finish Cancel

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

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17). The Assign Servers to Machines screen appears.

r	Fusion Middleware Configuration Wizard -	Page 17 of 22 ×
Assign Servers to Machines		
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		Machine Machine Machine MainServer WLS_FORMS WLS_REPORTS
<u>Partitions</u> <u>Configuration Summary</u>	Select one or more servers in the left pane and one machine.	ine in the right pane. Then use the right arrow button (>)
Help		< Back Next > Finish Cancel

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

## 18). The Virtual Targets screen appears.

.

-	Fusion Middleware	Configuration V	Vizard - Page	18 of 22		×
Virtual Targets						
Create Domain	Add 🗙 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						
Component Datasources						
Advanced Configuration						
Managed Servers     Clusters						
Server Templates     Dynamic Servers						
Assign Servers to Clusters     Coherence Clusters						
<u>Machines</u> Assign Servers to Machines						
Virtual Targets						
Partitions     Configuration Summary	• •					
Help	-		<	Back <u>N</u> ext >	<u> </u>	Cancel

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

r		Fusion Middleware Configuration Wizard - P	Page 19 of	22		×
Partitions						
Create Domain Templates		Add Delete		9	Dis <u>c</u> ard	Changes
Application Location		Nar	me			
Administrator Account     Domain Mode and JDK						
<ul> <li><u>Database Configuration Type</u></li> </ul>						
Component Datasources     JDBC Test						
Advanced Configuration	10					
Managed Servers     Clusters	1000					
Server Templates						
<u>Dynamic Servers</u> <u>Assign Servers to Clusters</u>						
<u>Coherence Clusters</u>						
<u>Machines</u> Accient Servers to Machines						
<u>Assign Servers to Machines</u> <u>Virtual Targets</u>						
Partitions		• •				
Configuration Summary	-					
Help			< <u>B</u> ack	<u>N</u> ext > <u>F</u> in	ish	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.

Fusion Middleware Configuration Wizard - Page 20 of 24 ×					
System Components					
Create Domain Templates	-1 	<u>D</u> elete		Dis <u>c</u> ard Changes	
Application Location	System Component	t Component Type	Restart Interval Seconds	Restart Delay Seconds	
Administrator Account	forms1	FORMS	3600	0	
Domain Mode and JDK	ohs_1	онз 👻	3600	0	
<ul> <li>Database Configuration Type</li> <li>Component Datasources</li> <li>JDBC Test</li> <li>Advanced Configuration</li> <li>Managed Servers</li> <li>Clusters</li> <li>Clusters</li> <li>Server Templates</li> <li>Dynamic Servers</li> <li>Assign Servers to Clusters</li> <li>Coherence Clusters</li> <li>Machines</li> <li>Assign Servers to Machines</li> <li>Virtual Targets</li> <li>Partitions</li> <li>System Components</li> </ul>					
Help			< Back Next >	Finish Cancel	

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.
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Fusion Middleware Configuration Wizard - Page 21 of 25					×	
OHS Server						
	System Component Admin Host Admin Port Listen Address Listen Port SSL Listen Port Server Name	ohs_1  127.0.0.1  7779  7777  4443  http://localhost:7777				
Assign Servers to Machines     Virtual Targets     Partitions	+ <del>-</del>					
System Components			< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

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

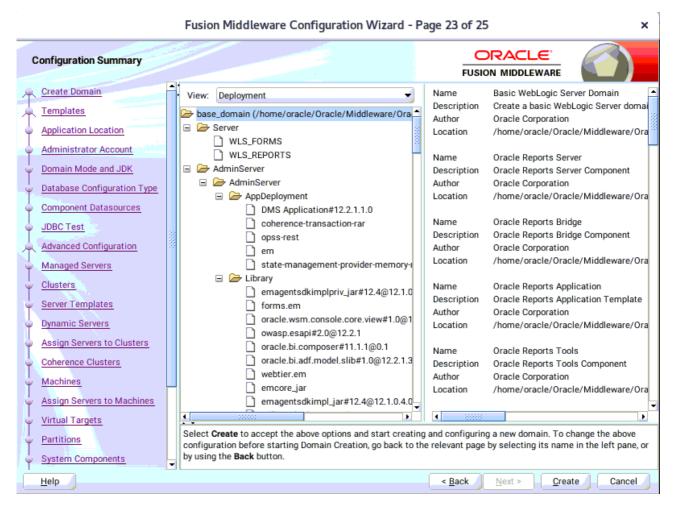
Oracle Fusion Middleware 12c on SLES 15 SP1

22). The Assign System Components screen appears.

Fusion Middleware Configuration Wizard	- Page 22 of 25 ×
Assign System Components to Machines	
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	Machine Machine Machine Machine Machine SystemComponent Machine SystemComponent Machine SystemComponent Machine SystemComponent Machine SystemComponent Machine Ma
Coherence Clusters     Machines     Assign Servers to Machines     Virtual Targets     Partitions     System Components     System Components     Help	

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.

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

r	Fusion Middleware Configuration Wizard - Page 24 of 25×										
Configuration Progress											
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C Templates			100%								
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Help				< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel				

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.



#### 25). 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 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&

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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:

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Server state changed to RUNNING.

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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:

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#### Oracle Fusion Middleware 12c on SLES 15 SP1

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## Starting WLS\_FORMS

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#### Oracle Fusion Middleware 12c on SLES 15 SP1

### Starting WLS\_REPORTS

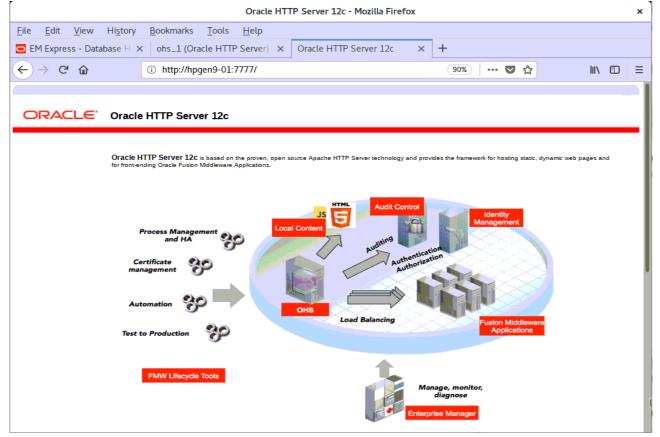
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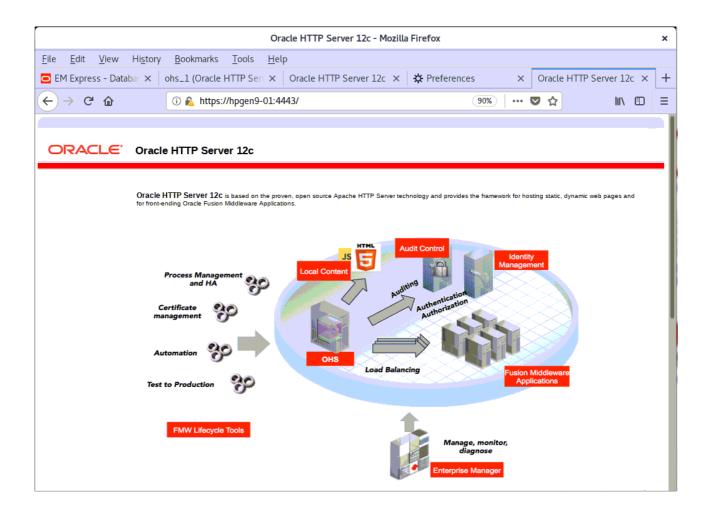
### Viewing Home page - All three servers are up and running.

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Memory Usage (%)	State	Running		
	Host	hpgen9-01		
/irtual Hosts	Ports	7777 4443 127.0.0.1:7779		
	Machine Name	AdminServerMachine	12:17 PM 12:20 12:23 12:26 12:29 October 24 2019	
2 ► Virtual Hosts	Auto Restart			
Viituai 105t5	Oracle Home	/home/oracle/Oracle/Middleware	Request Processing Time (milli seconds) //Domain_base_domain/base_domain/ohs_1: Request Throu	
	Utacle Home	/Oracle_Home	Table Vie	9W
Nodules	Key Statistics			
	Idle Processes	Unavailable	CPU and Memory Usage	
52 🕨	Busy Processes	Unavailable	1.0	
Modules			0.6	
	Error Rate (%)		0.2 0.0 3,0	000
	Connection Duration (seconds)	Unavailable	2,0	000
	Request Processing Time (seconds)	Unavailable	1,0	000
	Request Throughput (per second)	-1.00	12:17 PM 12:20 12:23 12:26 12:29 October 24 2019	0

#### Verified ohs1 URLs can be accessed.





### 2). Access to Administration Server Console

ogin Page as show.	n below:				
	Oracle WebLogic Server Administration Console	- Mozilla Firefox			~
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory	<u>B</u> ookmarks <u>T</u> ools <u>H</u> elp				
Oracle WebLogic Server Adm 🗙	✿ Preferences × +				
← → ♂ ଢ	🛈 🔏 http://hpgen9-01:7001/console/login/LoginForm.jsp	90%	•• ♥ ☆	III\ 🗊	≡
ORACLE Web	ogic Server Administration Console 12c				
			Welcome		
		Log in to work with the	e WebLogic Server domain		
		Username:	weblogic		
		Password:	•••••		
				Login	
WebLogic Server Version: 12.2.1.4.0					
Copyright (c) 1996,2019, Oracle and/or its affiliates Oracle is a registered trademark of Oracle Corporat	. All rights reserved. tion and/or its affiliates. Other names may be trademarks of their respective owners.				

### Home Page:

Home Page - base_domain - WLS Console - Mozilla Firefox									
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>E</u>	<u>3</u> ookmarks <u>T</u> ools <u>H</u> elp								
Home Page - base_domain - 🗙	✿ Preferences								
$\leftarrow$ $\rightarrow$ C $\textcircled{a}$	) http://hpgen9-01:7001/console/conso	ole.portal?_nfpb=true& 🔳 90%		≡					
	Iministration Console 12c		Ģ	2					
Change Center	👔 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: base_dom	nain					
View changes and restarts	Home								
Click the Lock & Eff button to modify, add or delete items in this domain. Lock & Edt Release Configuration Domain Structure base_domain ⊕-Dormain Partitions ⊕-Environment b-Deployments ⊕-Services b-Services b-Services b-Theroperability ⊕-Diagnostics	Home Page  Information and Resources Helpful Tools Configure applications Configure applications Configure applications Set your console preferences Oracle Enterprise Manager Domain Domain Domain Domain Domain Domain Domain Domain Partitions Domain Partitions	General Information Common Administration Task Descriptions Read the documentation Ask a question on My Oracle Support Resource Group Templates Resource Group Templates Resource Groups Resource Groups Resource Groups	Interoperability • WTC Servers • Joht Connection Pools Diagnostics	-					
How do I	Partition Work Managers	Deployed Resources	Log Files     Diagnostic Modules	10					
Search the configuration     Use the Change Center	Environment • Servers	Deployments	Built-in Diagnostic Modules     Diagnostic Images						
Record WLST scripts	Clusters	Services	Request Performance						
Change Console preferences     Manage Console extensions     Monitor servers  System Status	Server Templates     Migratable Targets     Coherence Clusters     Machines	Messaging     JMS Servers     Store-and-Forward Agents     JMS Modules	Archives     Context     SNMP     Interceptors						
System Status  Retrieving Health Data	Virtual Hosts     Virtual Targets	<ul><li>Path Services</li><li>Bridges</li></ul>	Charts and Graphs						

### Viewing the summary of servers:

,		:	Summary of Servers	- base_dom	ain - WLS Conso	ole - Mozilla Firefox				×
<u>File Edit View History</u>	<u>B</u> ooki	mark	s <u>T</u> ools <u>H</u> elp							
Summary of Servers - base_C $ imes$	☆	Prefe	rences	×   +						
$\leftarrow$ $\rightarrow$ C $\textcircled{a}$	D ht	tp://ł	npgen9-01:7001/cons	ole/console.	portal?_nfpb=tru	e&. 🗉 90%	··· 🛡 🖒	7	III\ 🗊	≡
	dminist	ration	Console 12c							2
Change Center		Hom	e Log Out Preferences 脑 Rec	ord Help	Q		Welcome	e, weblogic	Connected to:base_d	omain
View changes and restarts	H	lome >\$	Summary of Servers							
Click the Lock & Edit button to modify, add or delete items in this domain.		nmary onfigu	of Servers ration Control							-1
Release Configuration		Aserve	r is an instance of WebLogic Serv	er that runs in its ov	vn Java Virtual Machine (J	VM) and has its own configuration	L			
Domain Structure	·	This pa	ge summarizes each server that l	has been configure	d in the current WebLogic	Server domain.				- 18
base_domain ⊕-Domain Partitions ⊕-Environment Deployments		کې کې د د د د د د د د د د د د د د د د د د د								
Services     Security Realms		Server	s (Filtered - More Columns Exis	t)						
			he Lock & Edit button in the Chang		all the buttons on this pag	je.				
		New	Clone Delete				s	howing 1 to 3	of 3 Previous   Nex	t i
			Name 谷	Туре	Cluster	Machine	State	Health	Listen Port	
			AdminServer(admin)	Configured		AdminServerMachine	RUNNING	🖋 ок	7001	
How do I			WLS_FORMS	Configured	cluster_forms	AdminServerMachine	RUNNING	🖋 ок	9001	
Create Managed Servers			WLS_REPORTS	Configured	cluster_reports	AdminServerMachine	RUNNING	🖋 ок	9002	
Clone servers     Delete Managed Servers		New	Clone Delete				s	howing 1 to 3	of 3 Previous   Nex	
Delete the Administration Server										- 11
Start and stop servers										
View objects in the JNDI tree										
System Status	i									
Health of Running Servers as of 1:08 PM										

### 3). Access to Oracle Forms Services.

le <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory			
Immary of Servers - base_C	× Oracle Fusion Middleware F○ × +		
-)→ C û	i http://hpgen9-01:9001/forms/	90% 💟 🏠	III\ 🗊
raolo Eucion N	/liddleware Forms Services		
racie Fusion N	inddieware Forms Services		
e Forms Listener Servlet i	s up and running.		

### 4). Access to Oracle Reports Services.

	orac	acle Reports Services - Servlet - Mo	lilla Firerox	
e <u>E</u> dit <u>V</u> iew Hi <u>s</u> to	ory <u>B</u> ookmarks <u>T</u> ools <u>I</u>	<u>H</u> elp		
mmary of Servers - base_	C X Oracle Reports Servic	ces - Sei 🗙 🕂		
) > C @	i http://hpgen9-01:90	002/reports/	90% 🛛 🕶 😋 🏠	III\ 🗊
Reports				) H
acle Reports Servi	ces - Servlet Comman	nd Help		
		r/yourservletpath/rwservlet[/command]?[args quest, and optional command is a keyword,	;] modifying request in some way (see list below)	
more information about how		et ruserulet refer to the product docume		
Valid Reports Servlet	to setup and use Reports Servle	et rwservlet, refer to the product documer =name) can be omitted rwservlet will try to u		
Valid Reports Servlet n following commands, the na	to setup and use Reports Servle	•	itation.	

End of Oracle Forms and Reports.

\*\*\*\*\*

### 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\_191 and later installed.
- 3). Oracle WebLogic Server 12cR2 (12.2.1.4.0) (Fusion Middleware Infrastructure Installer)

1-2. Login to the target system (SLES 15 SP1 64-bit OS) as a non-admin user. Download the Oracle WebTier 12cR2 OHS (12.2.1.4.0) from <u>https://www.oracle.com/downloads/#category-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 this .zip (fmw\_12.2.1.4.0\_ohs\_linux64\_Disk1\_1of1.zip) file and launch the installation program by running 'fmw\_12.2.1.4.0\_ohs\_linux64.bin'

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

1). Installation Inventory Setup.

Oracle Fusion Middleware 12c Infrastructure Installation			
Installation Inver	ntory Setup		
Central Inventory Directory			
Enter the Central inventory inventory directory if it does		tions.The installer will create a new cen	tral
Inventory Directory:	/home/oracle/oralnventory	Br	owse
	Enter the full path for the directo	ory.	
Operating System Group :	oinstall		
	Specify a group with write permi	ssion to the inventory directory	
Central Inventory Pointer Fi	ile		
		nventory directory. Run this script to cre I inventory for future installations and	ate a
administrative operations,	such as patching and upgrade.		
Help			

Specify the Oracle inventory directory and group permissions for that directory. The group must have write permissions to the Oracle inventory directory, then click **OK** to continue.

### 2). Welcome page.

Oracle HTTP Server Installation - Step 1 of 9 ×		
Welcome		
	Welcome to Oracle Fusion Middleware 12c (12.2.1.4.0) Use this installer to create a new Oracle Home or exter Middleware Web Tier software, including Oracle HTTP For more information, see <u>Install, Patch, and Upgrade</u> in Context-sensitive online help is available from the <u>H</u> elp	nd an existing Oracle home with the Oracle Fusion Server. n the Oracle Fusion Middleware documentation library.
Installation Complete		
	Copyright (c) 1999, 2019, Oracle and/or its affiliates. All	
Help		< Back Next > Finish Cancel

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

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

Oracle HTTP Server Installation - Step 2 of 9 ×		
Auto Updates		
Welcome         Auto Updates         Installation Location         Installation Type         JDK Selection         Prerequisite Checks         Installation Summary         Installation Progress         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>U</u> sername:   Password:   Proxy Settings     Search	FUSION MIDDLEWARE     Browse        Test Connection
Help		< Back Next > 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.

_	Oracle HTTP Server Installation - Step 3 of 9		
In	stallation Location		
φ	Welcome	Oracle Home:	
÷	Auto Updates	/home/oracle/Oracle/Middleware/Oracle_Home	7
þ	Installation Location	Feature Sets Installed At Selected Oracle Home: View	
5	Installation Type	Oracle Fusion Middleware 12c Infrastructure 12.2.1.4.0	•
I.	IDK Coloction		
٢.	JDK Selection	Core Application Server 12.2.1.4.0	
2	Prerequisite Checks	Coherence Product Files 12.2.1.4.0	
	Installation Summary	Web 2.0 HTTP Pub-Sub Server 12.2.1.4.0	
		WebLogic SCA 12.2.1.4.0	
	Installation Progress	WebLogic Client Jars 12.2.1.4.0	
)	Installation Complete	Administrative Tools	
		Administration Console Additional Language Help Files 12.2.1.4.0	
		CIE WLS Config 12.2.1.4.0	
		Enterprise manager 12.2.1.4.0	
		Database Support	
		Third party JDBC Drivers 12.2.1.4.0	
		WebLogic Evaluation Database 12.2.1.4.0	
		Open Source Components	
		Fusion Middleware Maven Support 12.2.1.4.0	
		☐ JRF and Enterprise Manager	
		WLS for FMW 12.2.1.4.0	_
		Oracle Automatic Diagnostic Repository Feature Set Group	
			¥
		The Oracle Home /home/oracle/Oracle/Middleware/Oracle_Home will be used for all Oracle Feature Sets in this installation. This page only shows Feature Sets installed at the selected Oracle Home. It does not show Feature Sets installed anywhere else.	
	Help	< Back Next > Finish Cancel	

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



Oracle HTTP Server Installation - Step 4 of 9 ×		
Installation Type		
<ul> <li><u>Welcome</u></li> <li><u>Auto Updates</u></li> <li><u>Installation Location</u></li> <li>Installation Type</li> <li><u>JDK Selection</u></li> <li><u>Prerequisite Checks</u></li> <li><u>Installation Summary</u></li> <li><u>Installation Progress</u></li> <li><u>Installation Complete</u></li> </ul>	<ul> <li>Standalone HTTP Server (Managed independently of</li> <li>Collocated HTTP Server (Managed through WebLogie</li> <li>Oracle HTTP Server 12.2.1.4.0</li> <li>OHS</li> <li>Oracle HTTP Server 12.2.1.4.0</li> <li>Java Runtime Environment</li> <li>Oracle JRE 12.2.1.4.0</li> <li>Oracle Common Configuration Infrastructure</li> <li>CIE CAM Shared Config 12.2.1.4.0</li> <li>Enterprise manager Plugin for OHS 12.2.1.4.0</li> <li>Infrastructure</li> <li>Database Client 12.2.1.4.0</li> <li>OAM WebGate For Oracle HTTP Server 12.2.1.4</li> <li>OPatch 13.9.4.2.1</li> <li>LDAP 12.2.1.4.0</li> </ul>	c server)
Help		< Back Next > Finish 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 - Step 5 of 9		×
JDK Selection			
Welcome	JDK Home:		
Auto Updates	/home/oracle/ORACLE_SW/Java/jdk1.8.0_221		Browse
Installation Location			
Installation Type			
JDK Selection			
Prerequisite Checks			
Installation Summary			
Installation Progress			
Installation Complete			
	The selected JDK /home/oracle/ORACLE_SW/Java/jdk1.8	3.0_221 will be used for this installation	
Help		< Back Next > Finis	h Cancel

The selected JDK will be used for this installation. Click  $\ensuremath{\textbf{Next}}$  to continue.

	Oracle HTTP Server Installation - Step 6 of 9	×
Prerequisite Checks		
Q Welcome		
Auto Updates	100%	
Installation Location	Checking operating system certification	
Installation Type	Checking recommended operating system packages	
<ul> <li>JDK Selection</li> </ul>	Checking kernel parameters	
R Prerequisite Checks	Checking physical memory	
Installation Summary	Checking Java version used to launch the installer	
<ul> <li>Installation Progress</li> </ul>		
O Installation Complete		
	Stop Rerun Skip	View Log
	Checking operating system certification	-
	Expected result: One of redhat-7, redhat-6, oracle-6, oracle-7, SuSE-11, SuSE-12, SuSE-15 Actual Result: SuSE-15-SP1	
	Check complete. The overall result of this check is: Passed	
	Grecking kernel parameters	
Help	Checking physical memory  Checking physical memory  Checking physical memory  Checking physical memory  Finish	Cancel
	- Equit Terra	

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

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

(Note: "Checking recommended operating system packages" failed with following error:

Prerequisite Checks	
Welcome	
Auto Updates	100%
Installation Location	Checking operating system certification
Installation Type	Checking recommended operating system packages
JDK Selection	Checking kernel parameters
Prerequisite Checks	Checking physical memory
Installation Summary	Checking Java version used to launch the installer
Installation Complete	Checking for binutils-2.19-11.28; found binutils-2.31-5.31-x86_64. Passed Checking for gcc-4.3-62.198; found gcc-7-3.3.22-x86_64. Passed Checking for glibc-2.9-13.2; found glibc-32bit-2.26-13.24.1-x86_64. Passed Checking for glibc-32bit-2.9-13.2; found glibc-32bit-2.26-13.24.1-x86_64. Passed Checking for glibc-devel-2.9; found glibc-devel-2.26-13.24.1-x86_64. Passed Checking for glibc-devel-32bit-2.9-13.2; found glibc-devel-32bit-2.26-13.24.1-x86_64. Passed Checking for glibc-devel-32bit-2.9-13.2; found glibc-devel-32bit-2.26-13.24.1-x86_64. Passed Checking for glibc-devel-32bit-2.9-13.2; found glibc-devel-32bit-2.26-13.24.1-x86_64. Passed Checking for libaio-0.3.104-140.22; Not found. Failed Checking for libaio-devel-0.3.104-140.22; found libaio-devel-0.3.109-1.25-x86_64. Passed Checking for libaio-devel-3.3.20081022; 11.18; Not found. Failed Checking for libstdc++43-4.3.3_20081022-11.18; Not found. Failed Checking for libstdc++43-4.3.3_20081022-11.18; Not found. Failed Checking for make-3.81; found make-4.2.1-7.3.2-x86_64. Passed Checking for gcc-32bit-4.3; found gysstat-12.0.2-3.12.1-x86_64. Passed Checking for gc-32bit-4.3; found gysstat-12.0.2-3.12.1-x86_64. Passed Checking for gc-32bit-4.3; found gysstat-12.0.2-3.12.1-x86_64. Passed Checking for libaio-32bit-0.3.104; Not found. Failed Checking for libaio-32bit-0.3.104; Not found. Failed Checking for libaio-devel-32bit-0.3.104; Not found. Failed Checking for libaio-devel-32bit-0.3.104; Not found. Failed Checking for libatdc++33-3.3; Not found. Failed Checking for libatdc++33-3.3; Not found. Failed Checking for libatdc++43-32bit-3.3.2; Not found. Failed Checking for libatdc++43-32bit-3.3.2; Not found. Failed Checking for libatdc++43-32bit-3.3.2; Not found. Failed Checking for libatdc++43-devel-32bit-3.3.2; Not found. Failed Checking for libatdc++43-devel-32bit-3.3.2; Not found. Failed

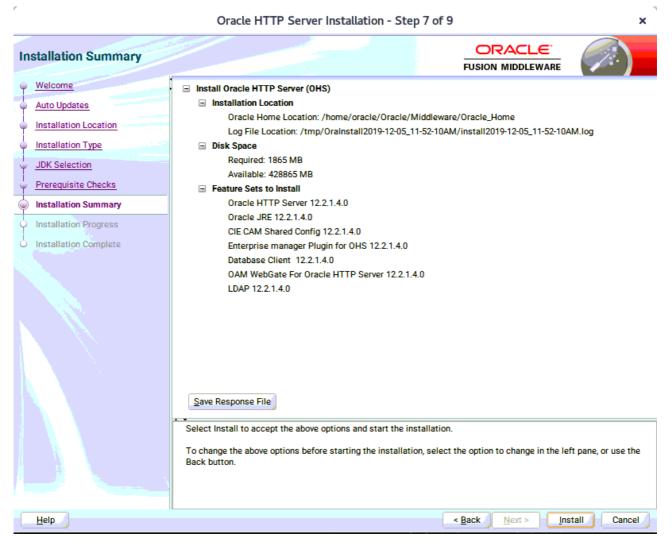
This is due to rpm name change in SLES15 (SP1). Oracle FUSION Middleware 12c (12.2.1.4) is certified on SLES15 (SP1). Manually ensure the following updated packages are installed.

binutils-2.29.1-4.46.x86 64 gcc7-ada-7.3.1+r258812-2.15.x86\_64 gcc-c++-7-1.563.x86\_64 gcc-c++-32bit-7-1.563.x86 64 gcc-ada-7-1.563.x86\_64 gcc-locale-7-1.563.x86\_64 gcc-info-7-1.563.x86\_64 gcc-7-1.563.x86\_64 gcc7-c++-7.3.1+r258812-2.15.x86\_64 gcc7-info-7.3.1+r258812-2.15.noarch gcc7-7.3.1+r258812-2.15.x86\_64 gcc7-locale-7.3.1+r258812-2.15.x86\_64 gcc7-c++-32bit-7.3.1+r258812-2.15.x86 64 gcc7-32bit-7.3.1+r258812-2.15.x86\_64 gcc-32bit-7-1.563.x86\_64 glibc-2.26-11.8.x86\_64 linux-glibc-devel-4.15-1.47.noarch

glibc-devel-2.26-11.8.x86 64 glibc-locale-2.26-11.8.x86\_64 glibc-extra-2.26-11.8.x86\_64 glibc-32bit-2.26-11.8.x86\_64 glibc-devel-32bit-2.26-11.8.x86 64 mksh-56c-1.10.x86 64 libaio1-0.3.109-1.25.x86 64 libaio1-32bit-0.3.109-1.25.x86 64 libaio-devel-32bit-0.3.109-1.25.x86\_64 libaio-devel-0.3.109-1.25.x86\_64 libcap2-2.25-2.41.x86\_64 libcap-ng0-0.7.9-1.42.x86\_64 libcap2-32bit-2.25-2.41.x86\_64 libstdc++6-7.3.1+r258812-2.15.x86\_64 libstdc++6-devel-gcc7-7.3.1+r258812-2.15.x86\_64 libstdc++6-32bit-7.3.1+r258812-2.15.x86\_64 libstdc++6-devel-gcc7-32bit-7.3.1+r258812-2.15.x86 64 libstdc++6-locale-7.3.1+r258812-2.15.x86\_64 libstdc++-devel-7-1.563.x86\_64 libgcc s1-7.3.1+r258812-2.15.x86 64 libgcc\_s1-32bit-7.3.1+r258812-2.15.x86\_64 make-4.2.1-5.48.x86\_64 make-lang-4.2.1-5.48.noarch makedumpfile-1.6.3-5.6.x86 64 xorg-x11-7.6\_1-1.22.noarch xorg-x11-server-1.19.6-6.19.x86\_64 xorg-x11-fonts-7.6-3.9.noarch xorg-x11-driver-video-7.6\_1-2.30.x86\_64 xorg-x11-Xvnc-1.8.0-11.23.x86\_64 xorg-x11-fonts-core-7.6-3.9.noarch xorg-x11-server-extra-1.19.6-6.19.x86\_64 xorg-x11-essentials-7.6\_1-1.22.noarch

)

#### 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		
9 Welcome		
Auto Updates	100	%
Installation Location	✓ Prepare	
Installation Type	Copy	
U JDK Selection	Generating Libraries	
Prerequisite Checks	Performing String Substitutions	
O Installation Summary	<ul> <li>Linking</li> </ul>	
Installation Progress	✓ Setup	
Installation Complete	Saving the inventory	
	Post install scripts	
	View <u>M</u> essages	uccessful Tasks View Log
		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.

Oracle HTTP Server Installation - Step 9 of 9			
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/Oralnstall2019-12-05_11-52-10AM/install2019-12-05_11-52-10AM.log</li> </ul> </li> <li>Feature sets Installed Successfully         <ul> <li>Oracle HTTP Server 12.2.1.4.0</li> <li>Oracle JRE 12.2.1.4.0</li> <li>CIE CAM Shared Config 12.2.1.4.0</li> <li>Enterprise manager Plugin for OHS 12.2.1.4.0</li> <li>Database Client 12.2.1.4.0</li> <li>OAM WebGate For Oracle HTTP Server 12.2.1.4.0</li> <li>LDAP 12.2.1.4.0</li> </ul> </li> <li>Pre-Existing Feature Sets         <ul> <li>OPatch 13.9.4.2.1</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 quide for detailed instructions.         Oracle HTTP Server (OHS) installation completed successfully.		
Help	< <u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel		

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.

Welcome         scher           Create Repository	ify a unique prefix for all schem mas later. ) <u>S</u> elect existing prefix:		ORACLE JSION MIDDLEWARE
Welcome         scher           Create Repository	mas later.	as created in this session, so you car	easily locate, reference, and manage the
Database Connection Details	Select existing prefix:		
Select Components	Select existing prefix:		
Select Components	2		
g select components			
	<u>Create new prefix</u> :	DEV	
Schema Passwords		Alpha numeric only. Cannot start wi	th a number. No special characters.
Map Tablespaces			
Summary	Component		Schema Owner
	Oracle AS Repository Co		
Completion Summary	🖃 🗹 AS Common Schema		
	Common Infrastr		DEV_STB
	🗹 Oracle Platform S		DEV_OPSS
	User Messaging S	ervice	DEV_UMS
	Audit Services		DEV_IAU
	Audit Services Ap		DEV_IAU_APPEND
	Audit Services Vie		DEV_IAU_VIEWER
	Metadata Service		DEV_MDS
	Weblogic Services	*	DEV_WLS

Select the **Create new prefix** radio button and provide a schema prefix (such as DEV). 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.

r	Fusion Middleware Configuration Wizard	- Page 1 of 8	×
Configuration Type			
Create Domain			
Administrator Account     Domain Mode and JDK     Advanced Configuration			
Configuration Summary Configuration Progress	What do you want to do?		
් End Of Configuration	<ul> <li>Create a new domain</li> <li>Update an existing domain</li> </ul>		
	Domain Location: racle/Oracle/Middleware/Oracle_Ho	ome/user_projects/domains/base_domain B <u>r</u> owse	2
	Create a new domain.		
Help		< Back Next > Finish Cance	н

Click Next to continue.

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

.

r	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 Summary         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   Ø Basic WebLogic Server Domain [wlserver] *   Ø Oracle Enterprise Manager [em]   Oracle Enterprise Manager [em]   Ø Oracle Enterprise Manager Restricted JRF [em]   Ø Oracle HTTP Server (Collocated) [ohs]   Oracle User Messaging Service Basic [oracle_common]   Oracle User Messaging Service [oracle_common]   Oracle WSM Policy Manager [oracle_common]   Oracle JRF [oracle_common]   Ø Oracle JRF [oracle_common]   Ø Oracle JRF [oracle_common]   Ø Oracle Dust Monager [oracle_common]   Ø Oracle JRF [oracle_common]   Ø Oracle JRF [oracle_common]   Ø Oracle JRF [oracle_common]
<u>H</u> elp	< <u>Back</u> <u>Next</u> > <u>Einish</u> Cancel

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

r	Fusion Middlew	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 Progress End Of Configuration	Domain name: Domain location: Application location:		/Oracle_Home/user_projects/domains //user_projects/applications/base_domain	Browse
Help			< <u>Back Next &gt; Finish</u>	Cancel

### 3). The Application Location screen appears.

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

7

	Fusion Middlev	ware 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	Name Password	weblogic		
Configuration Summary Configuration Progress End Of Configuration	Confirm Password	•••••		
	Must be the same as number or special ch	s the password. Password must cont naracter.		
Help			< <u>B</u> ack <u>N</u> ext >	<u>Finish</u> Cancel

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

r

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.

7

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

.

	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_221 /home/oracle/ORACL         Other JDK Location:	l, and do not poll for applications to deploy.	Browse	
Help		< Back Next > Finish	Cancel	

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.

r	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>R</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:       hpgen9-01         DBMS/Service:       suse       Port:         Schema Owner:       DEV_STB       Schema Password:         Get RCU Configuration       Cancel         Connection Result Log       Connection g schema data from database serverOK         Binding local schema components with retrieved dataOK       Successfully Done.				
Help	< Back Next > Finish Cancel				

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

#### Oracle Fusion Middleware 12c on SLES 15 SP1

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

r	Fusion Middleware Co	nfiguration V	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	Vendor:	Connection Connection P S Component scher SridLink C C	ort: chema Password: [ nas: onvert to RAC multi		O Don't conv	vert
Configuration Progress	Component Schema	DBMS/Service	Host Name	Port	Schema Owner	Schema Password
Lend Of Configuration	LocalSvcTbl Schema	SUSE	hpgen9-01	1521	DEV_STB	
	WLS Schema	SUSE	hpgen9-01	1521	DEV_WLS_RUN	
	OPSS Audit Schema	SUSE	hpgen9-01	1521	DEV_IAU_APPEI	
	OPSS Audit Viewer Sche	SUSE	hpgen9-01	1521	DEV_IAU_VIEWE	
	OPSS Schema	SUSE	hpgen9-01	1521	DEV_OPSS	
	* •					
Help			< <u>B</u> a	ack <u>N</u> e	xt > <u>F</u> inisi	h Cancel

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

Oracle Fusion Middleware 12c on SLES 15 SP1

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

r

Fusion Middleware Configuration Wizard - Page 8 of 12					×	
JDBC Component Schema Test						
Reate Domain	<b>v</b>	Status	Component Schema	JDBC Connection URL		
🚊 Templates		1	LocalSvcTbl Schema	jdbc:oracle:thin:@//hpgen9-01:1521/S	SUSE	
Application Location	<ul> <li>Image: A set of the set of the</li></ul>	1	WLS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/S	SUSE	
	<ul> <li>Image: A start of the start of</li></ul>	1	OPSS Audit Schema	jdbc:oracle:thin:@//hpgen9-01:1521/§	SUSE	
<u>Administrator Account</u>	<ul> <li>Image: A set of the set of the</li></ul>	1	OPSS Audit Viewer Schema	jdbc:oracle:thin:@//hpgen9-01:1521/§	SUSE	
Domain Mode and JDK		1	OPSS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/S	SUSE	
Database Configuration Type						
Component Datasources						
JDBC Test						
Advanced Configuration						
Configuration Summary	<b>—</b>					
Configuration Progress	Test Selected Connections / Cancel Testing					
C End Of Configuration	Connection Result Log					
	Drive URL: Pass SQL CFGI CFGI	r=oracl idbc:or =DEV_S word=* Test=S FWK-64:	******** ELECT 1 FROM DUAL 213: Test Successful! 213: JDBC connection test was successful.			
	1		559593			
Help				< Back Next > Einish	Cancel	

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

r	Fusion Middleware Configuration Wizard - Page 9 of 12			
Advanced 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>Configuration Summary</li> <li>Configuration Progress</li> <li>End Of Configuration</li> </ul>	<ul> <li>Administration Server Modify Settings</li> <li>Node Manager Configure Node Manager</li> <li>Topology Add, Delete or Modify Settings for Managed Servers,</li> <li>System Components Configure and Target System Components</li> <li>Domain Frontend Host Capture Configure Domain Frontend Host</li> <li>Deployments and Services Target to Servers or Clusters</li> </ul>	Clusters, Virtual Targets and Coherence		
Help		< <u>Back Next &gt;</u> Einish Ca	ancel	

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

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

r	Fusion Middleware C	Configuration Wizard - I	Page 10 of 14	×
System Components				
Create Domain Templates	· Add X Dele	te		🔊 Dis <u>c</u> ard Changes
Application Location	System Component	Component Type	Restart Interval Seconds	Restart Delay Seconds
Administrator Account	ohs_1	онз 🚽	3600	0
<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>Machines</u></li> <li><u>Configuration Summary</u></li> <li><u>Configuration Progress</u></li> <li>End Of Configuration</li> </ul>				
<u>H</u> elp			< Back Next >	<u>Finish</u> 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.

7

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

r

	Fusion Middlew	are Configuration Wizard - P	age 11 of 1	15		×
OHS Server						
Reate Domain						
Femplates	System Component	ohs_1				
Application Location						
Administrator Account	Admin Host	127.0.0.1				
Domain Mode and JDK	Admin Port	7779				
<u>Database Configuration Type</u> <u>Component Datasources</u>	Listen Address	hpgen9-01				
JDBC Test	Listen Port	7777				
Advanced Configuration	SSL Listen Port	4443				
System Components	Server Name	http://hoppen0.01/7777				
OHS Server	Server Marrie	http://hpgen9-01:7777				
<ul> <li><u>Machines</u></li> <li><u>Configuration Summary</u></li> <li>Configuration Progress</li> <li>End Of Configuration</li> </ul>						
<u>H</u> elp			< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

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.

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

Fusion Middleware Configur	Ation Wizard - Page 12 of 16 ×
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration System Components OHS Server	Image: Node Manager Listen Address       Node Manager Listen Port         147.2.207.96       ✓       5556
Machines Assign System Components Configuration Summary Configuration Progress End Of Configuration	

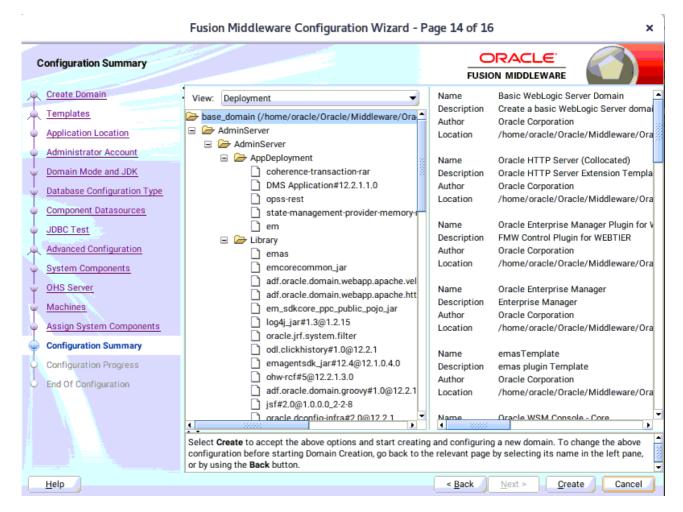
You can use this screen to override the machine name or add addition Machine names for extend domain. Click Next to continue.

13). The Assign System Components screen appears.

, 	Fusion Middleware Configuration Wizard -	- Pag	je 13 of 1	6			×
Assign System Components to	Machines						
Create Domain	•		Machines				
Templates			o Machine 🕤 🕞	e E_Machine_	1		
Application Location			-	SystemCom			
Administrator Account				📦 ohs_1			
Domain Mode and JDK							
Database Configuration Type							
Component Datasources							
JDBC Test		>					
Advanced Configuration							
System Components							
OHS Server							
Machines		٢					
Assign System Components		1					
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 rig	ht arrow
Help			< <u>B</u> ack	<u>N</u> ext > /	Einis	h C	ancel

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.

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

	Fusion Middleware Configuration Wizard - Page 15 of 16	×
Configuration Progress		
Create Domain		
A Templates	100%	
Application Location	V Copy Unprocessed Artifacts	
Administrator Account	OPSS Processing	
Domain Mode and JDK	Security Processing     Artifacts Generation	
	String Substitution	
<ul> <li>Database Configuration Type</li> </ul>	V Post Processing	
Component Datasources		
U JDBC Test		
Advanced Configuration		
System Components		
OHS Server		
O Machines		
Assign System Components		
Configuration Summary		
Configuration Progress		
End Of Configuration		
Help	< Back	ish Cancel

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.

r	Fusion Middleware Configuration Wizard - Page 16 of 16			×
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>System Components</li> <li>OHS Server</li> <li>Machines</li> <li>Assign System Components</li> <li>Configuration Summary</li> <li>Configuration Progress</li> <li>End Of Configuration</li> </ul>	Oracle Weblogic Server Configuration Succeeded New Domain base_domain Creation Succeeded Domain Location /home/oracle/Oracle/Middleware/Oracle_Home/user_projects/doma Admin Server URL http://hpgen9-01:7001/console	<u>iins/base_dom</u>	ain	
Help	After successful domain creation, you must run the WLST command ohs_updatel required steps. Please refer to OHS product documentation for more details.			_

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&'

			orac	e@hpgen	€-01:/ho	me/oracle/Oracle/Mi	ddleware/Oracle_H	ome/user	_projects/domains/base_domain/bin	×
File	Edit	View	Search	Termina	ıl Tabs	Help				
or	acle@	hpgen9	)-01:/ho	me/oracle	/O ×	oracle@hpgen9	-01:/home/oracle/O	r ×	oracle@hpgen9-01:/home/oracle/Or ×	<u>+1</u> •
			01:/h		le/Ora	cle/Middleware/	Oracle_Home/use	r_proje	ects/domains/base_domain/bin> nohup ./	/start
[1] orac	18423 le@hp	gen9-	01:/h	ome/orac		cle/Middleware/ o stdout	Dracle_Home/use	r_proje	ects/domains/base_domain/bin> nohup: i	ignori
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r_pr	oject	s/dom	nains/H	base_dom	ain/no	demanager/nodem	anager.domains>		ne/oracle/Oracle/Middleware/Oracle_Hom Ager properties version to 12.2.1.4.0>	
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Dec	05, 2	2019 1	2:42:5	57 PM or	acle.s	ecurity.jps.int	ernal.config.xm	l.XmlCo	onfigurationFactory validateFileLocati	ion

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

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File	Edit	View	Search	Terminal	Tabs H	lelp								
0	racle@	Dhpgen	9-01:/ho.	×	oracle@	npgen9-01:/ho	×	oracle@hpg	gen9-01:/ho		oracle@hpgen9	-01:/ho ×	Æ	,
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)ec	5,	2019 :	12:48:2	3,399 PM	9 GMT+08	:00> <noti< td=""><td>ce&gt; <se< td=""><td>rver&gt; <bea-< td=""><td></td><td>hannel</td><td>"Default" is</td><td>now listen</td><td>ing on</td><td></td></bea-<></td></se<></td></noti<>	ce> <se< td=""><td>rver&gt; <bea-< td=""><td></td><td>hannel</td><td>"Default" is</td><td>now listen</td><td>ing on</td><td></td></bea-<></td></se<>	rver> <bea-< td=""><td></td><td>hannel</td><td>"Default" is</td><td>now listen</td><td>ing on</td><td></td></bea-<>		hannel	"Default" is	now listen	ing on	
						t3, ldap,								
)ec :.>		2019 :	12:48:2	3,402 PM	4 GMT+08	:00> <noti< td=""><td>ce&gt; <we< td=""><td>bLogicServe</td><td>r&gt; <bea-00< td=""><td>0360&gt;</td><td><the s<="" server="" td=""><td>started in R</td><td>UNNING</td><td></td></the></td></bea-00<></td></we<></td></noti<>	ce> <we< td=""><td>bLogicServe</td><td>r&gt; <bea-00< td=""><td>0360&gt;</td><td><the s<="" server="" td=""><td>started in R</td><td>UNNING</td><td></td></the></td></bea-00<></td></we<>	bLogicServe	r> <bea-00< td=""><td>0360&gt;</td><td><the s<="" server="" td=""><td>started in R</td><td>UNNING</td><td></td></the></td></bea-00<>	0360>	<the s<="" server="" td=""><td>started in R</td><td>UNNING</td><td></td></the>	started in R	UNNING	
		2019 -	12:48:2	3.443 PM	GMT+08	:00> <noti< td=""><td>ce&gt; <we< td=""><td>bLogicServe</td><td>r&gt; <bea-00< td=""><td>0365&gt;</td><td><server state<="" td=""><td>changed to</td><td>RUNNT</td><td>N</td></server></td></bea-00<></td></we<></td></noti<>	ce> <we< td=""><td>bLogicServe</td><td>r&gt; <bea-00< td=""><td>0365&gt;</td><td><server state<="" td=""><td>changed to</td><td>RUNNT</td><td>N</td></server></td></bea-00<></td></we<>	bLogicServe	r> <bea-00< td=""><td>0365&gt;</td><td><server state<="" td=""><td>changed to</td><td>RUNNT</td><td>N</td></server></td></bea-00<>	0365>	<server state<="" td=""><td>changed to</td><td>RUNNT</td><td>N</td></server>	changed to	RUNNT	N
											Sector States			

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

\_\_\_\_\_

Server state changed to RUNNING.

------

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

Initializing WebLogic Scripting Tool (WLST) ... [INFO] Unable to bind key for unsupported operation: up-history [INFO] Unable to bind key for unsupported operation: down-history [INFO] Unable to bind key for unsupported operation: up-history [INFO] Unable to bind key for unsupported operation: dp-nistory [INFO] Unable to bind key for unsupported operation: down-history [INFO] Unable to bind key for unsupported operation: up-history [INFO] Unable to bind key for unsupported operation: down-history [INFO] Unable to bind key for unsupported operation: up-history [INFO] Unable to bind key for unsupported operation: down-history [INFO] Unable to bind key for unsupported operation: up-history [INFO] Unable to bind key for unsupported operation: down-history [INFO] Unable to bind key for unsupported operation: up-history [INFO] Unable to bind key for unsupported operation: down-history [INFO] Unable to bind key for unsupported operation: up-history [INFO] Unable to bind key for unsupported operation: down-history [INFO] Unable to bind key for unsupported operation: up-history [INFO] Unable to bind key for unsupported operation: down-history Welcome to WebLogic Server Administration Scripting Shell Type help() for help on available commands wls:/offline> connect('weblogic','welcomel','hpgen9-01:7001') Connecting to t3://hpgen9-01:7001 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/> ohs updateInstances() Location changed to edit custom tree. This is a writable tree with No root. For more help, use help('editCustom') Starting an edit session ... Started edit session, be sure to save and activate your changes once you are done. Saving all your changes ... Saved all your changes successfully. Activating all your changes, this may take a while ... The edit lock associated with this edit session is released once the activation is completed. Activation completed OHS instances have been updated successfully. wls:/base\_domain/serverConfig/> [

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

#### Login Page:

Sign in - Oracle Enterprise Manager - Mozilla Firefox	×
<u>File Edit View History Bookmarks Tools H</u> elp	
Sign in - Oracle Enterprise Mi × +	
(←) → C' ŵ ① <sup>2</sup> / <sub>2</sub> http://hpgen9-01:7001/em/faces/targetauth/emasLogin?target 90% ···· ♥ ☆ III\ ①	≡
SIGN IN TO	
ORACLE ENTERPRISE MANAGER	
FUSION MIDDLEWARE CONTROL 12c	
Domain Domain_base_domain	
* User Name weblogic	
*Password	
Login to Partition	
Sign in	

#### Home Page:

	base_domain (Oracle WebLogic	Domain	- Oracle En	terprise Manager	- Mozilla Firefox		×
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory	<u>B</u> ookmarks <u>T</u> ools <u>H</u> elp						
base_domain (Oracle WebLo $ imes$	+						
← → ⊂ ŵ	i http://hpgen9-01:7001/em/fac	es/as-we	blogic-webL	ogicDomainHe	90%) 💟 🏠	ت ۱۱۱ 🗈	≡
	anager Fusion Middleware Control 12c				KebLogic	Domain 💌 weblogic 💌	
base_domain <b>0</b>					۰ 🕈	Auto Refresh Off	•
🖶 WebLogic Domain 👻					Dec	5, 2019 12:58:29 PM GMT+08:00	0 v
() Information	is available only when you own the edit s						×
Servers 1 up	Administration Server Name AdminS Host hpgen9 Listen Port 7001 Servers						
0.	View 🔻 🎽 Create 🛛 🗶 Delete	Contro	ol ▼ E				
Clusters	Name	Status	Cluster	Machine	State	Health	
	AdminServer(admin)	÷			Running	ок	
Deployments							
~	Columns Hidden 34					Servers 1 c	of 1

## Starting Oracle HTTP Server (ohs\_1)

	ohs_1 (Oracle HTTP Server) -	Oracle Enterprise Manager - Mozilla Firefox ×
<u>File Edit View History</u>	<u>B</u> ookmarks <u>T</u> ools <u>H</u> elp	
ohs_1 (Oracle HTTP Server)	+	
← → ♂ ଢ	i) http://hpgen9-01:7001/em/faces/as	s_ohs_ohsHome?type=oracle.
	anager Fusion Middleware Control 12c	WebLogic Domain 🔻 weblogic 🔻 🚥
+ ohs_1 0	🕨 Start Up 🚺 Shut Down 【 Restart	2 → 2 → 2 → 2 → 2 → 2 → 2 → 2 → 2 → 2 →
Monitoring	General	Response and Load
Metrics Unavailable	Component Name ohs_1 Version 12.2.1 State Shutdo Host 147.2.	4.0
0 Virtual Hosts	Auto Restart	0.1:7779 12:48 PM 12:51 12:54 12:57 01:00
Modules O Modules	Key Statistics Idle Processes Unava Busy Processes Unava Error Rate (%) -1.00	
	Connection Duration (seconds) Unava Request Processing Time (seconds) Request Throughput (per second)	

#### Oracle Fusion Middleware 12c on SLES 15 SP1

e Edit View History	F	Bookmarks Tools Help				
/	_					
s_1 (Oracle HTTP Server)	×	+				
$\rightarrow$ × $\textcircled{a}$	0	) 🔏 http://hpgen9-01:7001/en	n/faces/as_ohs_ohsHome?t	ype=orac	90% 🛡 🏠	III\ 🗊
	e Ma	nager Fusion Middleware Control 12c			🔚 WebLogic Domain	• weblogic •
1 ohs_1						`∎ + 🖂
oracle HTTP Server 👻		🕨 Start Up 📄 Shut Down 🔣 R	estart		Dec 5, 2019	1:03:33 PM GMT+08:00 🕇
Monitoring		General		Response and	d Load	
0.00 CPU Usage (%)		Component Name	ohs_1	3		
3.51		Version	12.2.1.4.0	2		
Memory Usage (%)		State	Running	1		
		Host	147.2.207.96			
Virtual Hosts		Ports	hpgen9-01:7777 hpgen9-01:4443 127.0.0.1:7779			
		Machine Name	SuSE_Machine_1	12:50 PM Decembe	12:53 12:56 12:59 er 05 2019	01:02
2 Virtual Hosts	►	Auto Restart		•		•
VIITUAI HOSTS			/home/oracle/Oracle/Middleware	Request Proc /Domain_bas	essing Time (milli seconds) e_domain/base_domain/ohs_1: Request 1	Throu
		Oracle Home	/Oracle_Home			Table View
Modules		Key Statistics		CPU and Men	norv Usage	
50		Idle Processes	3	0.02	iory congo	
52 Modules	•	Busy Processes	0	0.01		
		Dusy Hocesses	v	0.01		
		Error Rate (%)	0.00	0.00		3,000
		Connection Duration (seconds)	0			2,000
		Request Processing Time	0	12:50 PM	12:53 12:56 12:59	01:02 0

### ohs 1 is up.

http://hpgen9-01:7001/em/faces/as\_ohs\_ohsHome?type=oracle\_apache&target=/Domain\_base\_domain/base\_domain/ohs\_1#

#### OHS Ports Configuration as shown below.

rt Usage: ohs_1 (Oracle H × + → C	e <u>E</u> dit	<u>V</u> iew Hi <u>s</u> to	ory <u>B</u> ookmarks	Tools <u>H</u> elp		
Port in Use       IP Address       Component       Protocol         7779       127.0.0.1       ohs_1       HTTPS         4443       hpgen9-01       ohs_1       HTTPS	t Usage: d	hs_1 (Oracle	HIX +			
Portin       IP Address       Component       Protocol         7779       127.0.0.1       ohs_1       HTTPS         4443       hpgen9-01       ohs_1       HTTPS	) → G	奋	i 🔏 http://h	pgen9-01:7001/em/faces/as/as/portsUsage?ty	rpe=orac 90%   ••• ♥ ☆ III\	
Portin Use         P Address         Component         Protocol         Protocol           7779         127.0.1         ohs_1         HTTPS           4443         hpgen9-01         ohs_1         HTTPS			rise Manager Fusion N	fiddleware Control 12c	💭 WebLogic Domain 💌 🛛 weblogic	•
7779         127.0.0.1         ohs_1         HTTPS           4443         hpgen9-01         ohs_1         HTTPS	<b>6</b> 0	racle HTTP Server	👻 🕨 Start Up	Shut Down  🔀 Restart	Dec 5, 2019 1:05:14 PM GMT	-+08:00 <b>t</b>
4443 hpgen9-01 ohs_1 HTTPS	Port in Use	IP Address	Component	Protocol		
	7779	127.0.0.1	ohs_1	HTTPS		
7777 hpgen9-01 ohs_1 HTTP	4443	hpgen9-01	ohs_1	HTTPS		
	7777	hpgen9-01	ohs_1	HTTP		

## 2). Access to Administration Server Console

Oracle WebLogic Server Administration Console -	Mozilla Firefox	×
<u>File E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp		
Port Usage: ohs_1 (Oracle H 🗙 Oracle WebLogic Server Adm 🗙 🕂		
← → C û û ≱ http://hpgen9-01:7001/console/login/LoginForm.jsp	90% 🛛 🕶 🔂	\ ⊡ ≡
	Welcome	
	Log in to work with the WebLogic Server do	imain
	Username: weblogic	
	Password:	Login
		Lugin
WebLogic Server Version: 12.2.1.4.0 Copyright (c) 1996,2019, 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.		

#### Login Page as shown below:

## Home Page:

Home Page - base_domain - WLS Console - Mozilla Firefox ×							
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>E</u>	<u>3</u> ookmarks <u>T</u> ools <u>H</u> elp						
Port Usage: ohs_1 (Oracle Hi ×	Home Page - base_domain - 🗙 🕂						
$\left( \leftarrow \right) \rightarrow C \ \mathbf{\hat{o}}$	) http://hpgen9-01:7001/console/cons	sole.portal?_nfpb=true&	%♥☆				
	Iministration Console 12c		Q				
Change Center	👔 Home Log Out Preferences 📐 Record Help	Q	Welcome, weblogic Connected to: base_domain				
View changes and restarts	Home						
Click the <i>Lock &amp; Edit</i> button to modify, add or delete items in this domain.	Home Page — Information and Resources —						
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 oracle support</li> </ul>					
Environment	Set your console preferences						
Deployments	Oracle Enterprise Manager						
ServicesSecurity 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	<ul> <li>Partition Work Managers</li> </ul>		Log Files				
		Deployed Resources	Diagnostic Modules				
Search the configuration     Use the Change Center	Environment	Deployments	Built-in Diagnostic Modules				
Record WLST scripts	Servers		Diagnostic Images     Request Performance				
Change Console preferences	Clusters     Server Templates	Services	Archives				
Manage Console extensions	Migratable Targets	Messaging	Context				
Monitor servers	Coherence Clusters	<ul> <li>JMS Servers</li> <li>Store-and-Forward Agents</li> </ul>	SNMP				
	Conerence Clusters     Machines	<ul> <li>Store-and-Forward Agents</li> <li>JMS Modules</li> </ul>	Interceptors				
System Status	Virtual Hosts	<ul> <li>Path Services</li> </ul>					
Health of Running Servers as of 1:08 PM	Virtual Targets	<ul> <li>Bridges</li> </ul>	Charts and Graphs				
the second s							

fielding the summary									
	Summ	ary of Servers - ba	se_domain - W	LS Console	e - Mozilla Fire	efox			×
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>E</u>	<u>B</u> ookmarks <u>T</u> o	ools <u>H</u> elp							
Port Usage: ohs_1 (Oracle $\exists X$	Summary of Se	ervers - base_ $<$ ×	+						
← → ℃ ŵ	) http://hpgen9	)-01:7001/console/	console.portal?.	_nfpb=true	8. 🗉 🧐	0% (	ס בי	III\ 🗊	≡
	Iministration Console	12c							<u> </u>
Change Center	🔒 Home Log Ou	t Preferences 🚵 Record H	Help	٩		W	/elcome, weblogi	c Connected to: base_do	omain
View changes and restarts	Home >Summary of	of Servers							
Click the Lock & Edit button to modify, add or	Summary of Server	s							
delete items in this domain.	Configuration	Control							- 11
Release Configuration		ance of WebLogic Server that				nfiguration.			
base_domain									_ []
Domain Partitions     Environment	Ç5								_ 11
Deployments	Customize this	table							
Services     Security Realms	Servers (Filtered	l - More Columns Exist)							
Interoperability     Diagnostics		Edit button in the Change Cent	er to activate all the butt	ons on this page.					
	New Clone	Delete					Showing 1	to1of1 Previous   Next	
	Name 🔅	,	Туре	Cluster	Machine	State	Health	Listen Port	
	AdminSe	rver(admin)	Configured			RUNNING	≪ ок	7001	
How do I	New Clone	Delete		I			Showing 1	to 1 of 1 Previous   Next	
Create Managed Servers									- 11
Clone servers									
Delete Managed Servers									- 1
Delete the Administration Server     Start and stop servers									
View objects in the JNDI tree									- 1
System Status									
Health of Running Servers as of 1:10 PM									

#### Viewing the summary of servers:

## Viewing the summary of Machines:

Summary of Machines - base_domain - WLS Console - Mozilla Firefox ×							
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp							
Port Usage: ohs_1 (Oracle HT × Summary of Machines - base × +							
$(\leftarrow \rightarrow \ \  \  \textcircled{\ }\  \  \  \textcircled{\ }\  \  \  \  \  \  \  \  \  \  \  \  \$	≡						
ORACLE WebLogic Server Administration Console 12c	<u> </u>						
Change Center 🕜 Home Log Out Preferences 🐼 Record Help 🔍 Welcome, weblogia Connected to:base_doi	main						
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.							
Lock & Edt A machine is the logical representation of the computer that hosts one or more WebLogic Server instances (servers). WebLogic Server uses configured machine names to determine the optimum server in a cluster to which certain tasks, such as HTTP session replication, are delegated. The Administration Server uses the machine definition in 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.	- 18						
base_domain       ⊕-Domain Partitions       ⊕-Environment       ⊡-Epolpoyments       ⊕-Services							
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 Previous Next	1						
Name 🌣 Type							
SuSE_Machine_1 Machine	111						
New Clone Delete Showing 1 to 1 of 1 Previous Next	t						
How do L	- UR						
Create and configure machines	- 1						
Assign server instances to machines	- 1						
Clone machines							
Delete machines	- 1						
System Status	- 1						
Health of Running Servers as of 1:11 PM							
Failed (0)							

## 3). Access to Oracle HTTP Server listening address

URL: http://host:7777/	
Oracle HTTP Server 12c - Mozilla Firefox	×
<u>File Edit View History Bookmarks Tools H</u> elp	
Port Usage: ohs_1 (Oracle H × Summary of Machines - base × Oracle HTTP Server 12c × +	
$( \leftarrow \rightarrow \ \  C \ \  \  \  \  \  \  \  \  \  \  $	≡
Create HTTP Server 12c is based on the proven, open source Apache HTTP Server technology and provides the framework for hosting static, dynamic web pages and for front-ending Oracle University of the provent apace and the provent open source Apache HTTP Server technology and provides the framework for hosting static, dynamic web pages and for front-ending Oracle Process Management and HA Crefificate management web	
Automation Test to Production FMW Lifecycle Tools Manage, monitor, diagnose	
Enterprise Manager	

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

Oracle HTTP Server 12c - Mozilla Firefox	×
<u>File Edit View History Bookmarks Tools H</u> elp	
Port Usage: ohs_1 (Oracle H × Summary of Machines - base × Oracle HTTP Server 12c × Oracle HTTP Server 12c × +	
$( \leftrightarrow \rightarrow \mathbb{C} \ \widehat{\mathbf{u}} \qquad (1) \ \widehat{\mathbf{k}} \ \text{https://hpgen9-01:4443/} \qquad (80\%) \ \cdots \ \bigtriangledown \ \widehat{\mathbf{k}} \qquad \text{II} \ (1) \ \widehat{\mathbf{k}} \qquad (1) \ \widehat{\mathbf{k}} \ $	≡
ORACLE Oracle HTTP Server 12c	1
Cracte HTTP Server 12c is based on the proven, open source Apache HTTP Server technology and provides the framework for hosting static, dynamic web pages and for front-ending Oracle Frocess Management and HA Cortificate management Oracle Arbon Middleware Test to Production	
FMW Lifecycle Tools Manage, monitor, diagnose Enterprise Manager	
Features	

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

P	roblem loading page - Mozilla Firefox ×
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> el	p
Port Usage: ohs_1 (Oracl × Summary of Machines - b ×	Oracle HTTP Server 12c × Oracle HTTP Server 12c × 🛕 Problem loading page × 🕂
← → C û (i) http://127.0.0.1:7779/	90%   … ♥ ☆                         =
	

(Issue: The page can not be displayed.)

Checking	tha	lictoning	nort	and	firowall
CHECKING	uie	IISLEIIIIIG	ρυιι	anu	illewall.

<pre>hpgen9-01:/opt/oracle # netstat -tupln   grep 7777</pre>		
tcp 0 0 147.2.207.96:7777 0.0.0.0:*	LISTEN	24027/httpd
<pre>hpgen9-01:/opt/oracle # netstat -tupln   grep 4443</pre>		
tcp 0 0 147.2.207.96:4443 0.0.0.0:*	LISTEN	24027/httpd
<pre>hpgen9-01:/opt/oracle # netstat -tupln   grep 7779</pre>		
tcp 0 0 127.0.0.1:7779 0.0.0.0:*	LISTEN	24027/httpd
<pre>hpgen9-01:/opt/oracle # firewall-cmdstate</pre>		
not running		
hpgen9-01:/opt/oracle #		

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

```
oracle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/ohs/common/bin> ./wlst.sh
WARNING: This is a deprecated script. Please invoke the wlst.sh script under oracle_common/common/bin.
Initializing WebLogic Scripting Tool (WLST) ...
[INFO] Unable to bind key for unsupported operation: up-history
[INFO] Unable to bind key for unsupported operation: down-history
[INFO] Unable to bind key for unsupported operation: up-history
[INFO] Unable to bind key for unsupported operation: down-history
[INFO] Unable to bind key for unsupported operation: up-history
[INFO] Unable to bind key for unsupported operation: down-history
[INFO] Unable to bind key for unsupported operation: up-history
[INFO] Unable to bind key for unsupported operation: down-history
[INFO] Unable to bind key for unsupported operation: up-history
[INFO] Unable to bind key for unsupported operation: down-history
[INFO] Unable to bind key for unsupported operation: up-history
[INFO] Unable to bind key for unsupported operation: down-history
[INFO] Unable to bind key for unsupported operation: up-history
[INFO] Unable to bind key for unsupported operation: down-history
[INFO] Unable to bind key for unsupported operation: up-history
[INFO] Unable to bind key for unsupported operation: down-history
Welcome to WebLogic Server Administration Scripting Shell
Type help() for help on available commands
wls:/offline> connect('weblogic','welcome1','hpgen9-01:7001')
Connecting to t3://hpgen9-01:/001 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('ohs_1')
Current state of "ohs_1" : RUNNING
wls:/base_domain/servercontig/>
```

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\_191 and later installed.
- 3). Oracle WebLogic Server 12cR2 (12.2.1.4.0) (Fusion Middleware Infrastructure Installer)

1-2. Log in to the target system (SLES 15 SP1 64-bit OS) as a non-admin user. Download the Oracle WebCenter Portal 12c (12.2.1.4.0) from <u>https://www.oracle.com/downloads/#category-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 this .zip (V983398-01.zip) file and launch the installation program by running 'java -jar fmw\_12.2.1.4.0\_wcportal.jar'

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

1). Installation Inventory Setup.

Installation Inven	tory Setup	
Central Inventory Directory		
Enter the Central inventory o inventory directory if it does		ons.The installer will create a new central
Inventory Directory:	/home/oracle/orainventory	Browse
	Enter the full path for the director	у.
Operating System Group :	oinstall	-
	Specify a group with write permise	sion to the inventory directory
Central Inventory Pointer Fil	le	
	· · · · · · · · · · · · · · · · · · ·	ventory directory. Run this script to create a inventory for future installations and
-	o identity the location of the central	

Specify the Oracle inventory directory and group permissions for that directory. The group must have write permissions to the Oracle inventory directory, then click **OK** to continue.

## 2). Welcome page.

Oracle Fusion Middleware 12c WebCenter Portal Installation - Step 1 of 8 ×						
Welcome						
<ul> <li>Welcome</li> <li><u>Auto Updates</u></li> <li><u>Installation Location</u></li> <li><u>Installation Type</u></li> <li><u>Prerequisite Checks</u></li> <li><u>Installation Summary</u></li> <li>Installation Progress</li> <li>Installation Complete</li> </ul>	Welcome to the Oracle Fusion Middleware 12c (12.2.1. Use this installer to install the WebCenter Portal softwa Before proceeding, ensure that you have installed Orac For more information, see Install, Patch, and Upgrade in Context-sensitive online help is available from the Help	4.0) WebCenter Portal Installer. are into an existing Oracle Home. <b>:le Fusion Middleware Infrastructure</b> n the Oracle Fusion Middleware docum	12c.			
	Copyright © 1996, 2019, Oracle and/or its affiliates. All ${\rm r}$	rights reserved.				
Help		< Back Next >	inish Cancel			

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

Oracle	e Fusion Middleware 12c WebCenter Portal Insta	llation - Step 2 of 8	×
Auto Updates			
Auto Updates          Welcome         Auto Updates         Installation Location         Installation Type         Prerequisite Checks         Installation Summary         Installation Progress         Installation Complete	Skip Auto Updates   Select patches from girectory   Location:   Search My Oracle Support for Updates   Username:   Password:   Proxy Settings     Search		E Connection
Help		< Back Next >	Finish Cancel

## 3). The Auto Updates page appears.

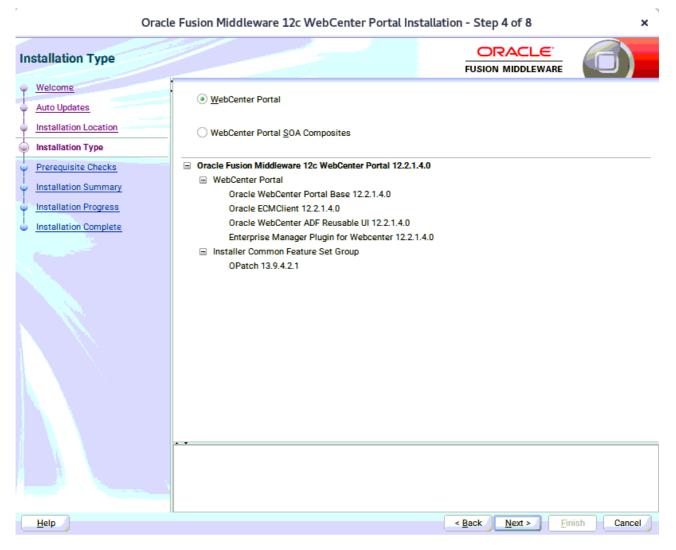
This page enables you to choose to automatically receive software updates for your components from Oracle Corporation. make your choices, then click **Next** to continue.

-

## 4). The Installation Location page appears.

Oracle	e Fusion Middleware 12c WebCenter Portal Installation - Step 3 of 8 ×
Installation Location	
<u>Welcome</u>	Oracle Home:
<u>Auto Updates</u>	/home/oracle/Oracle/Middleware/Oracle_Home
Installation Location	Feature Sets Installed At Selected Oracle Home: View
Installation Type	Oracle Fusion Middleware 12c Infrastructure 12.2.1.4.0
Prerequisite Checks	
	Core Application Server 12.2.1.4.0
Installation Summary	Coherence Product Files 12.2.1.4.0
Q Installation Progress	Web 2.0 HTTP Pub-Sub Server 12.2.1.4.0
Installation Complete	WebLogic SCA 12.2.1.4.0
O Installation complete	WebLogic Client Jars 12.2.1.4.0
	Administrative Tools
	Administration Console Additional Language Help Files 12.2.1.4.0
	CIE WLS Config 12.2.1.4.0
	Enterprise manager 12.2.1.4.0
	Database Support
	Third party JDBC Drivers 12.2.1.4.0
	WebLogic Evaluation Database 12.2.1.4.0
	Open Source Components
	Fusion Middleware Maven Support 12.2.1.4.0
	JRF and Enterprise Manager
	WLS for FMW 12.2.1.4.0
	Oracle Automatic Diagnostic Repository Feature Set Group
	FMW Platform Generic 12.2.1.4.0
	The Oracle Home /home/oracle/Oracle/Middleware/Oracle_Home will be used for all Oracle Feature Sets in this installation. This page only shows Feature Sets installed at the selected Oracle Home. It does not show Feature Sets installed anywhere else.
Help	< Back Next > Finish Cancel

Specify the Oracle home location into which you want to install the product(s). Click  $\ensuremath{\textbf{Next}}$  to continue.



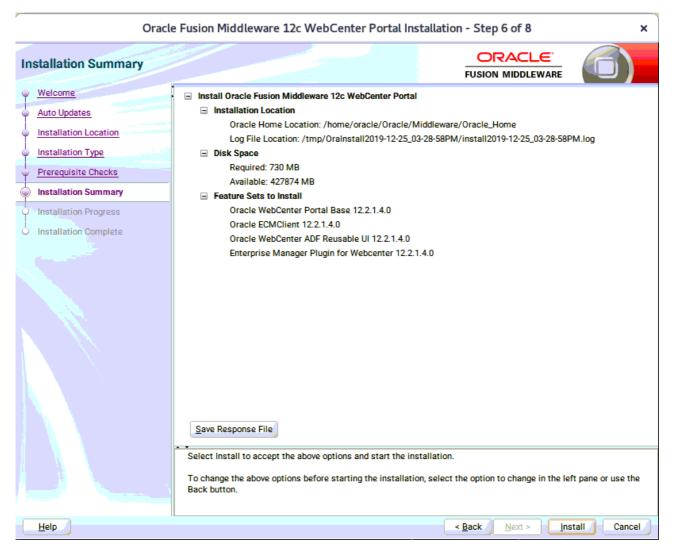
#### 5). The Installation Type page appears.

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.

	Oracl	le Fusion Middleware 12c WebCenter Portal Installation - Step 5 of 8	×
P	rerequisite Checks		
φ	Welcome		
Ý	Auto Updates	100%	
-	Installation Location	Checking operating system certification	
÷	Installation Type	Checking Java version used to launch the installer	
0	Prerequisite Checks		
Ý	Installation Summary		
Ý	Installation Progress		
0	Installation Complete		
		Stop Rerun Skip View Successful Tasks	View Log
		Checking operating system certification	
		Expected result: One of oracle-6, oracle-7, redhat-7, redhat-6, SuSE-11, SuSE-12, SuSE-15 Actual Result: SuSE-15-SP1	
		Check complete. The overall result of this check is: Passed  Checking Java version used to launch the installer	
C	Help	< Back Next > Fin	ish 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.



#### 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.

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

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Oracle	e Fusion Middleware 12c WebCenter Portal Installation - Step 7 of 8	×
Installation Progress		)
O Welcome		
Auto Updates	100%	
Installation Location	V Prepare	
Installation Type		
Prerequisite Checks	• • • • • • • • • • • • • • • • • • •	
i Unstallation Summary		
Installation Progress		
Installation Complete		
	Post install scripts	
	View Messages View Successful Tasks View	w <u>L</u> og
	Oracle Fusion Middleware Productivity. Flexibility. Experience.	+ + + 1 1 1 + + +
Help	< <u>Back</u> <u>Next</u> <u>Finish</u> Ca	incel

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.

Orac	le Fusion Middleware 12c WebCenter Portal In	stallation - Step 8 of 8 ×		
Installation Complete				
Welcome     Auto Updates     Installation Location     Installation Type     Prerequisite Checks     Installation Summary     Installation Progress     Installation Complete	<ul> <li>Installation Location         <ul> <li>Oracle Home Location: /home/oracle/Oracle/N Log File Location: /tmp/Oralnstall2019-12-25_0</li> <li>Feature Sets Installed Successfully                 Oracle WebCenter Portal Base 12.2.1.4.0                 Oracle ECMClient 12.2.1.4.0                 Oracle WebCenter ADF Reusable UI 12.2.1.4.0</li> </ul> </li> </ul>	Install Oracle Fusion Middleware 12c WebCenter Portal  Installation Location Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home Log File Location: /tmp/Oralnstall2019-12-25_03-28-58PM/install2019-12-25_03-28-58PM.log Feature Sets Installed Successfully Oracle WebCenter Portal Base 12.2.1.4.0 Oracle ECMClient 12.2.1.4.0 Cracle WebCenter ADF Reusable UI 12.2.1.4.0 Enterprise Manager Plugin for Webcenter 12.2.1.4.0 Pre-Existing Feature Sets		
	Next Step(s):  1. Use the Repository Creation Utility to create the requir 2. Use the Configuration Wizard to create a domain using See the product installation guide for more information.  Oracle Fusion Middleware 12c WebCenter Portal installat	g the required domain configuration templates.		
Help		< Back Next > Finish Cancel		

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 Utilit	у		
Welcome	Specify a unique prefix for all sch schemas later.	nemas created in this session, so	you can easily locate, reference, and manage th
Create Repository			
Database Connection Details	Select existing prefix:		
Select Components	<ul> <li>Create new prefix:</li> </ul>	DEV	
Schema Passwords			start with a number. No special characters.
Map Tablespaces		sipha hamene estiy. eatine	
Pumman	Component		Schema Owner
Summary_	Oracle AS Repository	Components	
Completion Summary	AS Common Sch	emas	
	Common Infra	astructure Services *	DEV_STB
	✓ Oracle Platfor	m Security Services	DEV_OPSS
	User Messagir	ng Service	UMS
	Audit Services		DEV_IAU
	Audit Services	Append	DEV_IAU_APPEND
	Audit Services	Viewer	DEV_IAU_VIEWER
	Metadata Serv	rices	DEV_MDS
	✓ Weblogic Serv	ices *	DEV_WLS
	■ WebCenter Porta		
	Portal and Ser	vices	DEV_WEBCENTER
	Portlet Produc	ers	DEV_PORTLET
	Analytics		DEV_ACTIVITIES

Select the **Create new prefix** radio button and provide a schema prefix (such as DEV). 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:

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

	Fusion Middle	eware Configuration Wizard	- Page 1 of 8	×
Configuration Type				
👰 Create Domain				
Templates				
Administrator Account				
Domain Mode and JDK				
Advanced Configuration				
Configuration Summary Configuration Progress	What do you want	to do?		
O End Of Configuration	<u> <u> C</u>reate a new d </u>	omain		
	O Update an exist	ting domain		
	Domain Location:		łome/user_projects/domains/base_dor	nain Browse
Help			< <u>B</u> ack <u>N</u> ext > <u>F</u> ini	sh Cancel

Click Next to continue.

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

	Fusion Middleware Configuration Wizard - Page 2 of 12	×
Templates		
Create Domain  Femplates  Application Location  Administrator Account  Domain Mode and JDK  Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	FUSION MIDDLEWARE            • Create Domain Using Product Templates:         Filter Templates:          Type here             □ Include all gelected templates             □ Include all gelected templates             △ Vailable Templates             ♥ Basic WebLogic Server Domain [wlserver] *             ♥ Oracle WebCenter Portal [wcportal]             ♥ Oracle WebCenter Porducers [wcportal]             ♥ Oracle WebCenter Portule Producers [wcportal]             ♥ Oracle WebCenter Analytics Collector [wcportal]             ♥ Oracle Enterprise Manager [em]             ○ Oracle Enterprise Manager [em]             ○ Oracle B2B Client [soa]             ○ Oracle B2B Client [soa]             ○ Oracle B2B Service Basic [oracle_common]             ○ Oracle RAS Session Service [oracle_common]             ○ Oracle RAS Session Service [oracle_common]             ○ Create Domain Using Custom Template:             Template location: [/home/oracle/Oracle/Middleware/Oracle_Home	se
Help	< Back Next > Finish Can	cel

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 [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.

P	Fusion Middlew	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:		/Oracle_Home/user_projects/domains /user_projects/applications/base_domain	
Help			< Back Next > Finish	Cancel

## 3). The Application Location screen appears.

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

	Fusion Middle	ware 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		ain at least 8 alphanumeric characters	
<u>H</u> elp			< <u>Back Next &gt; Finis</u>	h 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.

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

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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 passw         Production         Require the entry of a username and password         JDK         Oracle HotSpot 1.8.0_221 /home/oracle/ORACL         Other JDK Location:	I, and do not poll for applications to deploy.	Browse
<u>H</u> elp		< Back Next > Finish	Cancel

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: <ul> <li>RCU Data</li> <li>Manual Configuration</li> </ul> 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:, <ul> <li>Connection Parameters</li> <li>Connection URL String</li> </ul> Host Name:         hpgen9-01           DBMS/Service:         suse         Port:         1521           Schema Owner:         DEV_STB         Schema Password:				
Help	< Back Next > Finish Cancel				

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

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

Fusion Middleware Configuration Wizard - Page 7 of 12								
JDBC Component Schema								
Create Domain Templates Application Location	Vendor: <ul> <li>Driver:</li> <li>Connection Parameters</li> <li>Connection URL String</li> <li>Image: String</li> <li>Driver:</li> <li></li></ul>							
Administrator Account     Domain Mode and JDK	Host Name: DBMS/Service: Port:							
Database Configuration Type     Component Datasources	Schema Owner: Schema Password:							
Advanced Configuration Configuration Summary	Oracle RAC configuration for component schemas: Convert to GridLink Convert to RAC multi data source Don't convert Edits to the data above will affect all checked rows in the table below.							
Configuration Progress	Component Schema	DBMS/Service	Host Name	Port	Schema Owner	Schema Password		
C End Of Configuration	ActivitiesDS Schema	SUSE	hpgen9-01	1521	DEV_ACTIVITIE			
	LocalSvcTbl Schema	SUSE	hpgen9-01	1521	DEV_STB			
	PortletDS Schema	SUSE	hpgen9-01	1521	DEV_PORTLET			
	WLS Schema	SUSE	hpgen9-01	1521	DEV_WLS_RUN			
	WebCenterDS Schema	SUSE	hpgen9-01	1521	DEV_WEBCENT			
	mds-PageletProducerDS	SUSE	hpgen9-01	1521	DEV_MDS			
	WebCenter MDS Schem	SUSE	hpgen9-01	1521	DEV_MDS			
	OWSM MDS Schema	SUSE	hpgen9-01	1521	DEV_MDS	·····		
Help < Back Next > Finish Cancel								

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

#### 143

Fusion Middleware Configuration Wizard - Page 8 of 12 ×								
JDBC Component Schem	a Test							
Create Domain	Status	Component Schema	JDBC Connection URL					
Templates	<ul> <li>✓</li> <li>✓</li> </ul>	ActivitiesDS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE					
Application Location		LocalSvcTbl Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE					
Administrator Account		PortletDS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE					
	V	WLS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE					
Domain Mode and JDK	<ul> <li>Image: Image: Ima</li></ul>	WebCenterDS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE					
Database Configuration Ty	<u>pe</u> 🔽 🖋	mds-PageletProducerDS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE					
Component Datasources	<ul> <li>Image: Image: Ima</li></ul>	WebCenter MDS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE					
JDBC Test		OWSM MDS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE					
		OPSS Audit Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE					
Advanced Configuration	<ul> <li>Image: Image: Ima</li></ul>	OPSS Audit Viewer Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE 🚽					
Configuration Summary     Configuration Progress     End Of Configuration		Test Selected Connections Cancel Testing						
	Driver=oracl URL=jdbc:or User=DEV_A Password=*	Component Schema=ActivitiesDS Schema Driver=oracle.jdbc.OracleDriver URL=jdbc:oracle:thin:@//hpgen9-01:1521/SUSE User=DEV_ACTIVITIES Password=********* SQL Test=select 1 from schema_version_registry where owner=(select user from dual) and mr_type='ACTIVITIES'						
	CFGFWK-64 CFGFWK-64	CFGFWK-64213: Test Successful! CFGFWK-64213: JDBC connection test was successful.						
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.

# 9). The Advanced Configuration screen appears.

Fusion Middleware Configuration Wizard - Page 9 of 21					
Advanced Configuration					
	<ul> <li>Administration Server Modify Settings</li> <li>Node Manager Configure Node Manager</li> <li>Topology Add, Delete or Modify Settings for Managed Servers, 4</li> <li>Domain Frontend Host Capture Configure Domain Frontend Host</li> <li>Deployments and Services Target to Servers or Clusters</li> <li>File Store Modify Settings</li> </ul>		Cancel		
<u>H</u> elp		< <u>Back Next &gt; Finish</u>	Cancel		

On the Advanced Configuration screen, select:

- Administration Server
- Node Manager
- Topology

Then, click **Next** to continue.

Fusion Middleware Configuration Wizard - Page 10 of 21						
Administration Server						
Create Domain Create Component Datasources DDBC Test Component Datasources DDBC Test Advanced Configuration Create Configuration Server Clusters Server Templates Coherence Clusters Machines Virtual Targets Partitions Configuration Summary Configuration Progress Configuration Progress Create Domain Create Crea	Server Name AdminServer Listen Address All Local Addresses Listen Port 7001 Enable SSL SSL Listen Port Server Groups Unspecified	may not contain any : , = * ? % / _cloned.				
Help		< <u>B</u> ack <u>N</u> ext >	EinishCancel			

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.

Fusion Middleware Configuration Wizard - Page 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	Node Manager Type Per Domain Default Lou Per Domain Qustom Lou Node Manager Home: Manual Node Manager Node Manager Credentials	cation _re/Oracle_Home/user_proje	cts/domains/base_domain/nodemana	ger B <u>r</u> owse	
<ul> <li>Managed Servers</li> <li>Clusters</li> <li>Server Templates</li> <li>Coherence Clusters</li> <li>Machines</li> <li>Virtual Targets</li> <li>Partitions</li> <li>Configuration Summary</li> <li>Configuration Progress</li> </ul>	number or special character.		in at least 8 alphanumeric characters	with at least one	
Help			< <u>Back Next &gt; Finis</u>	h Cancel	

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

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

r		Fusion Middleware	Configuration Wizar	d - Page 12	of 21		×
Managed Servers							
Create Domain		Clo	ne 🖉 🔀 <u>D</u> elete			🔊 Dis <u>c</u>	ard Changes 🥖
Application Location     Administrator Accou		Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Groups
	_	WC_Portlet	147.2.207.96 🚽	8889		Disabled	WebCenter 🌱
Domain Mode and JL     Database Configurat	_	WC_Portal	147.2.207.96	8888		Disabled	WebCenter 🔻
Component Datasour     JDBC Test     Advanced Configurat     Advinistration Server     Node Manager     Managed Servers	ion						
<ul> <li><u>Clusters</u></li> <li><u>Server Templates</u></li> <li><u>Coherence Clusters</u></li> <li><u>Machines</u></li> <li><u>Virtual Targets</u></li> <li><u>Darbitizat</u></li> </ul>							
<u>Partitions</u> <u>Configuration Summ</u> <u>Configuration Progre</u> Help				C Pac	k Novt -	Finish	Cancel
Help				< <u>B</u> ac	k <u>N</u> ext >	<u>Finish</u>	Cancer

#### 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.

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

Fusion Middleware Configuration Wizard - Page 13 of 23							
Clusters							
Create Domain Templates	•		<u>D</u> elete				Dis <u>c</u> ard Changes
Application Location		Cluster Name	Cluster Address	Fronte	nd Host	Frontend HTTP Port	Frontend HTTPS Port
<u>Administrator Account</u>		wcp_cluster_1				0	0
Domain Mode and JDK		wcp_cluster_2				0	0
Database Configuration Type							
Component Datasources							
JDBC Test							
Advanced Configuration	1999						
Administration Server	22						
Node Manager							
Managed Servers							
Clusters							
Server Templates							
Dynamic Servers							
Assign Servers to Clusters							
Coherence Clusters							
<u>Machines</u>	Π						
Virtual Targets							
Partitions	-						
<u>H</u> elp					< <u>B</u> ac	k Next > Ei	nish Cancel

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 Middleware Conf	figuration Wizard - Pa	age 14 of 23	×
Server Templates				
Create Domain Templates	Add X Delete	]		🔊 Dis <u>c</u> ard Changes 🌙
Application Location     Administrator Account	Name	Listen Port	SSL Listen Port	Enable SSL
	portal-server-template	7100	8100	
Domain Mode and JDK	portlet-server-template	7100	8100	
Database Configuration Type	wsm-cache-server-template	7100	8100	
Component Datasources	wsmpm-server-template	7100	8100	
JDBC Test		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Advanced Configuration	8			
Administration Server	×			
Node Manager				
Managed Servers				
Clusters				
Server Templates				
Dynamic Servers				
Assign Servers to Clusters				
Coherence Clusters				
Machines	-			
<ul> <li>Virtual Targets</li> </ul>	* <b>*</b>			
Partitions	-			
Help			< Back Next >	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								Dis <u>c</u> ar	d Changes
<u>Application Location</u> <u>Administrator Account</u> <u>Domain Mode and JDK</u>		Cluster Name	Server Name Prefix	Server Template	Dynamic Cluster Size	Machine Name Match Expression	Calculated Machine Names	Calculated Listen Ports	Dynamic Server Groups
Database Configuration Type		wcp_cluster_1	Disabled	Unspecifi	Disabled	Disabled			Unspecifi
Component Datasources		wcp_cluster_2	Disabled	Unspecifi	Disabled	Disabled			Unspecifi.
Administration Server Node Manager Managed Servers	**								
<u>Clusters</u> Server Templates									
Clusters Server Templates Dynamic Servers									
<u>Clusters</u> Server Templates									

#### 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.

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	Fusion Middleware Configuration Wizard -	Page 16 of 23	×
Assign Servers to Clusters			
Create Domain     Templates     Application Location	Servers	Clusters Cluster Cluster_1 Cluster_1 Cluster_1	
Administrator Account     Domain Mode and JDK     Detabase Configuration Turns		WC_Portal  Wcp_cluster_2  Server WC_Portlet	
<u>Database Configuration Type</u> <u>Component Datasources</u> <u>JDBC Test</u>	C	»	
Advanced Configuration Administration Server Node Manager			
<u>Managed Servers</u> <u>Clusters</u>		٩	
Server Templates     Dynamic Servers     Assign Servers to Clusters			
<u>Coherence Clusters</u> <u>Machines</u>			
Virtual Targets     Partitions     Help	Select <b>one or more</b> servers in the left pane and <b>one</b> cluster assign the server or servers to the cluster.	er in the right pane. Then use the right arrow	ow button (>) to
Telb		Ellian	Cancer

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						
Templates	≜1 •	🛛 Discard Changes				
Application Location	Cluster Name	Cluster Listen Port				
<u>Administrator Account</u>	defaultCoherenceCluster	7574				
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	· ·					
<u>Machines</u> <u>Virtual Targets</u> <u>Partitions</u>	-					
Help		< Back Next > Finish Cancel				

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

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

	Fusion Middleware Configura	tion Wizard -	Page 18 of 24		×
Machines					
<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> <li>Clusters</li> <li>Server Templates</li> <li>Dynamic Servers to Clusters</li> <li>Coherence Clusters</li> <li>Machines</li> <li>Assign Servers to Machines</li> <li>Virtual Targets</li> </ul>	Machine Unix Machine	Node Manage	er Listen Address		Dis <u>c</u> ard Changes
Help			< <u>B</u> ack <u>N</u> e	ext > Einis	sh Cancel

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

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

19). The Assign Servers to Machines screen appears.

			Fusion Middleware Configuration Wizar	d - Pa	ge 19 of 24	×
	Assign Servers to Machines					
<b></b>	Create Domain		Servers	1	Machines	
	Templates				o Machine □ o suse_Machine_1	
4	Application Location				AdminServer	
- J	Administrator Account				WC_Portal	
J	Domain Mode and JDK				WC_Portlet	
	Database Configuration Type					
- T	Component Datasources			>		
Ī	JDBC Test			<u> </u>		
I	Advanced Configuration	100				
T	Administration Server	3				
Ť						
Ť	Node Manager			٢		
Ť	Managed Servers					
Ĩ	<u>Clusters</u>					
Ŷ	Server Templates					
ψ	Dynamic Servers					
ψ	Assign Servers to Clusters					
÷	Coherence Clusters					_
÷	Machines		Select <b>one or more</b> servers in the left pane and <b>one</b> m assign the server or servers to the machine.	achine i	in the right pane. Then use the right arrow button (>) t	0
	Assign Servers to Machines					
ļψ	Virtual Targets	-				
Ċ	<u>H</u> elp				< Back Next > Finish Cancel	7

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

r		Fusion Middleware	Configuration V	Vizard - Pa	age 20 of 2	24		×
Virtual Targets								
Create Domain Templates		Add 🗶 ⊵	elete				🔊 Dis <u>c</u> ard	Changes
Application Location     Administrator Account		Name	Target	Host Name	-	JRI Prefix	Explicit Port	Port Offset
Domain Mode and JDK								
<u>Database Configuration Type</u> <u>Component Datasources</u>								
<u>JDBC Test</u> <u>Advanced Configuration</u>	0000							
Administration Server     Node Manager								
Managed Servers								
<u>Clusters</u> <u>Server Templates</u>								
<u>Dynamic Servers</u> <u>Assign Servers to Clusters</u>								
<u>Coherence Clusters</u> Machines	μ							
Assign Servers to Machines								
Virtual Targets	-				< Back	Next >	Finish	Cancel

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

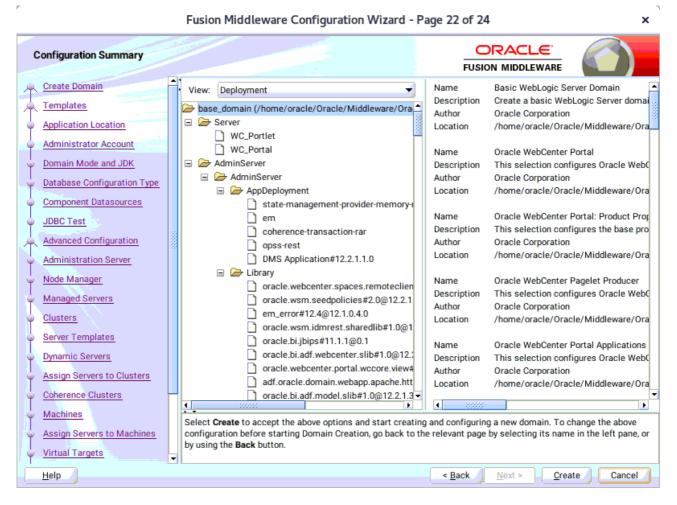
If you have a WebLogic Server Multitenant (MT) environment, you use the Virtual Targets screen to add or delete virtual targets. For this installation (not a WebLogic Server MT environment), you do not enter any values; just select **Next**.

	Fusion Middleware Configuration Wizard -	Page 21 of 24 ×
Partitions		
Create Domain	Add Delete	Discard Changes
Application Location     Administrator Account	N	lame
<u>Domain Mode and JDK</u> <u>Database Configuration Type</u>		
<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		< Back Next > Finish 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	Fusion Middleware Configuration Wizar	d - Pa	ge 23 of 2	4		×
Configuration Progress						
Create Domain						
C Templates		100%				
Application Location	Copy Unprocessed Artifacts					
Administrator Account	OPSS Processing					
	OWSM Processing     Security Processing					
O Database Configuration Type	Artifacts Generation					
	String Substitution     Post Processing					
JDBC Test	- For Foresting					
Q Advanced Configuration						
Administration Server						
Ú Node Manager						
Managed Servers						
O Clusters						
O Server Templates						
Oppramic Servers						
Assign Servers to Clusters						
Coherence Clusters						
Machines	-					
Assign Servers to Machines						
Virtual Targets						
Help			< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	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.

r

r	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> <li>Clusters</li> <li>Server Templates</li> <li>Dynamic Servers</li> <li>Assign Servers to Clusters</li> <li>Coherence Clusters</li> <li>Machines</li> <li>Assign Servers to Machines</li> <li>Virtual Targets</li> </ul>	Oracle Weblogic Server Configuration Succeeded New Domain base_domain Creation Succeeded Domain Location /home/oracle/Oracle/Middleware/Oracle_I Admin Server URL http://hpgen9-01:7001/console	<u>Home/user_projects/domains/base_domain</u>	
Help		< <u>Back</u> <u>N</u> ext > <u>Finish</u> Ca	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 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&'

			orad	cle@ł	npgen	9-01:	/hon	ne/oracle/	Oracle/M	liddlewa	are/Ora	cle_Ho	me/usei	er_p	projects/	domains	s/base	om	ains/b	ase_	se_	ma	ins/	/bas	e_d	se_	.do	ase	e_c	dor	ma	lor	ma	air	na	ain	air	n/	/b	bir	n									×
File	Edit	View	Searc	h Te	ermina	ιT	abs	Help																																										
or	acle@	hpgen	)-01:/h	ome/o	oracle	10		oracle	e@hpgen9	9-01:/hoi	me/ora	acle/Or.	×	c	oracle@I	npgen9-	01:/ho	oge	n9-01:	:/hon	hom	jei	19-01	1:/h	om	hon	ne/	/ho	om	ne/	/ora	e/	or	rac	ora	ac	ac	cle	le/	:/C	Or	r		×	¢		Ŀ	3		Ŧ
			01:/h			le/	Orac	cle/Midd	lleware/	/Oracle	e_Home	e/user	_proje	ect	ts/doma	ins/ba	ase_d	ins	/base	e_do	_do	۱S.	/bas	se_	dor	_do	oma	:_(	dor	ma	iin	1a	ir	n/	in	٦/	٦/	/b	oi	in	1>		n	ioh	nu	p	./	st	ar	t
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# Starting the Admin Server, go to the DOMAIN\_HOME/bin directory and run ./startWebLogic.sh.

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File Edit View Search Terminal Tabs Help	
oracle@hpgen9-01:/ho × oracle@hpgen9-01:/ho × oracle@hpgen9-01:/ho × oracle@hpgen9-01:/ho ×	•
2019-12-25 16:44:19.103/129.230 Oracle Coherence GE 12.2.1.4.0 <info> (thread=[STANDBY] ExecuteThread: '3' for ueue: 'weblogic.kernel.Default (self-tuning)', member=n/a): Created cache factory com.tangosol.net.ExtensibleCo</info>	
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2019-12-25 16:44:21.533/131.661 Oracle Coherence GE 12.2.1.4.0 <info> (thread=[ACTIVE] ExecuteThread: '63' for ueue: 'weblogic.kernel.Default (self-tuning)', member=n/a): Configured versioned, multi-cluster Management over ReST</info>	

\_\_\_\_\_

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

Server state changed to RUNNING.

-

# 4-3. Checking Oracle WebCenter Product URLs.

1). Access to Enterprise Manager Console.

# Login Page:

<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp	
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$\leftarrow \rightarrow \mathbb{C} \ \widehat{\mathbf{a}} \qquad \qquad \boxed{\mathbb{O} \ \cancel{a}} \ \texttt{http://hpgen9-01:7001/em/faces/targetauth/emasLogin?target} \qquad \boxed{\mathbb{R}} \ $	≡
SIGN IN TO	
ORACLE ENTERPRISE MANAGER	
FUSION MIDDLEWARE CONTROL 12c	
Domain Domain_base_domain	- 1
* User Name weblogic	- 1
* Password	
Login to Partition	
Sign in	
	- 1
ORACLE	
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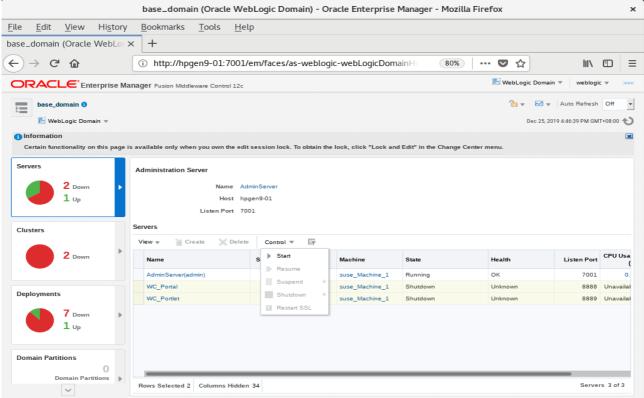
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#### Starting the Oracle WebCenter Portal Managed Servers:

# 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.



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

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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','hpgen9-01:7001')
Connecting to t3://hpgen9-01:7001 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
wls:/base_domain/serverConfig/> [
```

2). Access to Administration Server Console

#### Login Page as shown below:

Oracle WebLogic Server Administration Console - Mozilla F	irefox			×
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ORACLE WebLogic Server Administration Console 12c				
		Welcome		
	Log in to work with the V	VebLogic Server domain		
	Username:	weblogic		
	Password:	•••••	Login	
WebLogic Server Version: 12.2.1.4.0				
webuogis before version: 1.2.2.1.4.0 Copyright (c) 1996,2019, Create 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 Firefo	х	×
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ORACLE WebLogic Server Ad	ministration Console 12c		ç	$\supseteq$
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	٩	Welcome, weblogic Connected to: base_dom	main
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	Habéd Taala	General Information		
Release Configuration	Helpful Tools  Configure applications	Common Administration Task Descriptions		
	Configure applications     Configure GridLink for RAC Data Source	Read the documentation		
Domain Structure	Configure a Dynamic Cluster	<ul> <li>Ask a guestion on My Oracle Support</li> </ul>		
base_domain	Recent Task Status			
Environment	<ul> <li>Set your console preferences</li> </ul>			- 11
Deployments	Oracle Enterprise Manager			
Services				
<ul> <li>Security Realms</li> <li>Interoperability</li> </ul>	- Domain Configurations			- 11
Diagnostics	Domain	Resource Group Templates	Interoperability	
	Domain	Resource Group Templates	WTC Servers	
			Jolt Connection Pools	
	Domain Partitions	Resource Groups		
	Domain Partitions	Resource Groups	Diagnostics	
	Partition Work Managers	<ul> <li>Resource oroups</li> </ul>	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	• Deployments	Diagnostic Images	
Record WLST scripts	Clusters	Services	Request Performance	
Change Console preferences	<ul> <li>Server Templates</li> </ul>	Messaging	Archives	- 18
Manage Console extensions	<ul> <li>Migratable Targets</li> </ul>	<ul> <li>Messaging</li> <li>JMS Servers</li> </ul>	Context	
Monitor servers	Coherence Clusters	<ul> <li>Store-and-Forward Agents</li> </ul>	SNMP	
	Machines	<ul> <li>JMS Modules</li> </ul>	Interceptors	
System Status 🖂	Virtual Hosts	Path Services		- 11
Retrieving Health Data	Virtual Targets	<ul> <li>Bridges</li> </ul>	Charts and Graphs	
Failed (0)	Work Managers	Data Sources	Monitoring Dashboard	
Critical (0)	Concurrent Templates	Persistent Stores		
Overloaded (0)	Resource Management	XML Registries		
Warning (0)	Startup And Shutdown Classes	XML Entity Caches		
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# Viewing the summary of servers:

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ORACLE WebLogic Server Adm	ninistratio	n Console 12c							2
Change Center	🔒 Ho	me Log Out Preferences 💽 Record	Help	Q		We	lcome, weblogic	Connected to: base	domain
View changes and restarts	Home	>Summary of Servers							
Click the Lock & Edit button to modify, add or	Summa	ary of Servers							
delete items in this domain.	Config	guration Control							
Lock & Edit									
Release Configuration	Ase	erver is an instance of WebLogic Server	that runs in its own Java	Virtual Machine (JVM) and h	as its own configuration.				
Domain Structure	This	page summarizes each server that has	s been configured in the	current WebLogic Server dom	iain.				
base_domain	52								!!
-Domain Partitions     -Environment	C2								
Deployments     Services	De Cu	stomize this table							
Security Realms	Sen	vers (Filtered - More Columns Exist)							
Interoperability     Diagnostics	Clic	k the Lock & Edit button in the Change C	Center to activate all the	buttons on this page.					
	TNR.	ew Clone Delete					Showing 11	to 3 of 3 Previous Ne	ext
		Name 💫	Туре	Cluster	Machine	State	Health	Listen Port	
		AdminServer(admin)	Configured		suse_Machine_1	RUNNING	🖋 ОК	7001	
How do I 🗉		WC_Portal	Configured	wcp_cluster_1	suse_Machine_1	RUNNING	🗸 ок	8888	
Create Managed Servers		WC_Portlet	Configured	wcp_cluster_2	suse_Machine_1	RUNNING	🖋 ок	8889	111
Clone servers     Delete Managed Servers	N	ew Clone Delete					Showing 11	to 3 of 3 Previous Ne	ot
Delete the Administration Server									
Start and stop servers									
View objects in the JNDI tree									
System Status									
Health of Running Servers as of 4:59 PM									
Failed (0) Critical (0)									
Overloaded (0)									
Warning (0)									

### 3). Test Oracle WebCenter Portal Web Service

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

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		plete list of supported APIs	and more inform	nation about each.			
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	existing entry in domain	CSF with new credential.	- Delete an entry	from domain CSF for a given map, key in	formation Search entire domain	CSF for maps and key	rs.
				d JWT issuer, subject DN, and its attribu			
4	a list of Trust Configura	tion Upload a Collection of	of Trust Token At	tributes and DNs Download a list of Tr	ust Token Attribute Information. Ke	y Store Service (KSS)	)-

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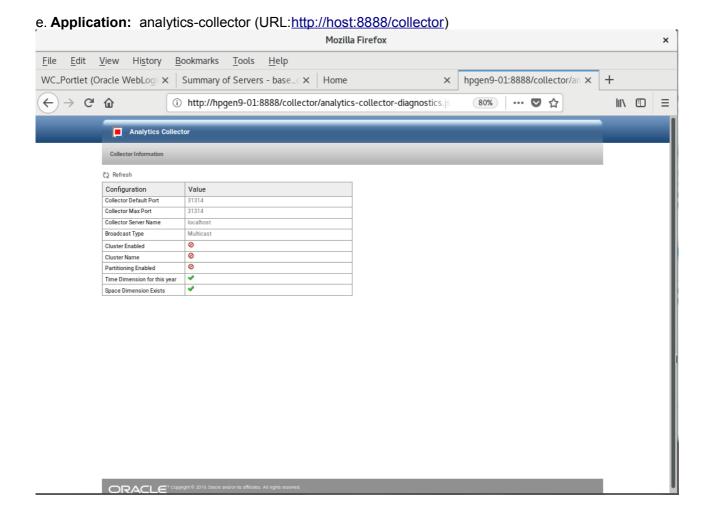
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End of Oracle WebCenter Portal.

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\_191 and later installed.

1-2. Log in to the target system (SLES 15 SP1 64-bit OS) as a non-admin user. Download the Oracle SOA Suite 12c (12.2.1.4.0) Quick Start installer zip file from <a href="https://www.oracle.com/downloads/#category-middleware">https://www.oracle.com/downloads/#category-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 ('V983385-01\_1of2.zip') files and launch the installation program by running '**java -jar fmw\_12.2.1.4.0\_soa\_quickstart.jar** '

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

1). Installation Inventory Setup.

Oracle Fusion Middleware 12c SOA Quick Start Installation ×									
Installation Inven	tory Setup								
Central Inventory Directory Enter the Central inventory of inventory directory if it does	directory for all your oracle installatio a not exist.	ns.The installer will create a nev	w central						
Inventory Directory:	/home/oracle/orainventory Enter the full path for the directory		Browse						
Operating System Group :	oinstall								
Central Inventory Pointer Fi	Specify a group with write permiss	ion to the inventory directory							
	(createCentralInventory.sh) in the inv o identity the location of the central i								
administrative operations,	such as patching and upgrade.								
Help		ОК	Cancel						

Specify the Oracle inventory directory and group permissions for that directory. The group must have write permissions to the Oracle inventory directory, then click **OK** to continue.

# 2). Welcome page.

r

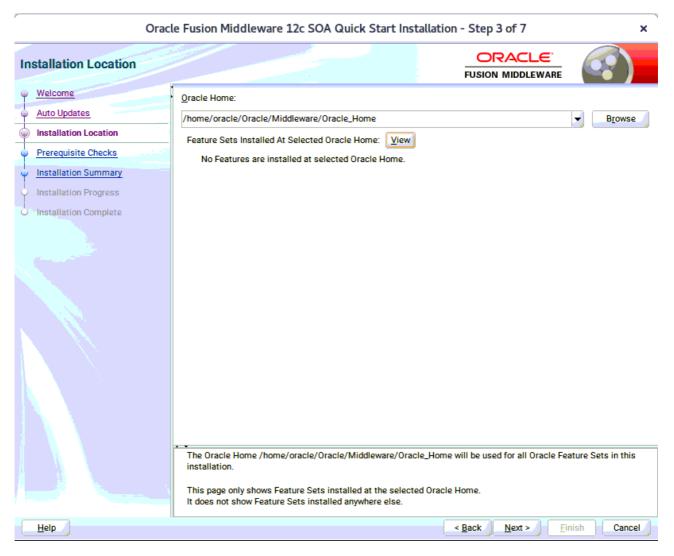
Ora	acle Fusion Middleware 12c SOA Quick Start Installation - Step 1 of 7
elcome	
Welcome	
Auto Updates	Welcome to the Oracle Fusion Middleware 12c (12.2.1.4.0) SOA Suite Quick Start for Developers Installer.
Installation Location	Use this installer to create a new Oracle home or to extend an existing Oracle Home that contains everything you need to evaluate or develop applications with the Oracle SOA Suite software.
Prerequisite Checks 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	
	Copyright © 1996, 2019, Oracle and/or its affiliates. All rights reserved.
Help	< <u>Back</u> <u>Finish</u> Cance

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

# 3). The Auto Updates page appears.

Orac	le Fusion Middle	ware 12c SOA Quick St	tart Installation - Step 2 of 7	×
Auto Updates				
Welcome				
Auto Updates	Skip <u>A</u> uto Upda	tes		
Installation Location	Select patches	from <u>d</u> irectory		
Prerequisite Checks	Location:			Browse
Installation Summary	O Search My Ora	cle Support for Updates		
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liala			Reak Nut	Finish Cancel
Help			< <u>B</u> ack <u>N</u> ext >	<u>Finish</u> 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.



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

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

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

Orac	le Fusion	Middleware 12c SOA Quick Start Installation - Step 4 of 7	×
Prerequisite Checks			
Welcome			
<u>Auto Updates</u>		100%	
Installation Location	✓	Checking operating system certification	
Prerequisite Checks	<b>v</b>	Checking Java version used to launch the installer	
Installation Summary			
Installation Progress			
C Installation Complete			
	Stop	Rerun     Skip       View Successful Tasks	View Log
	Ex Ac Ch	cking operating system certification pected result: One of oracle-6, oracle-7, redhat-7, redhat-6, SuSE-11, SuSE-12, SuSE-15 ctual Result: SuSE-15-SP1 heck complete. The overall result of this check is: Passed cking Java version used to launch the installer	
Help		Sack Next > Einis	sh Cancel

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.

# 6). The Installation Summary page appears.

Welcome         Auto Updates         Installation Location         Prerequisite Checks         Installation Summary         Installation Complete         Required: 4042 MB         Available: 425385 MB         Enstallation Complete         Required: 4042 MB         Available: 425385 MB         Enstallation Complete         NetLallation Complete         Required: 4042 MB         Available: 425385 MB         Enstallation Complete         Required: 4042 MB         Available: 425385 MB         Enstallation Complete         NetLogic Evaluation Database 12.2.1.4.0         WebLogic Evaluation Database 12.2.1.4.0         Service Bus 12.2.1.4.0         Oracle Enterprise Scheduler 12.2.1.4.0         BAM Components 12.2.1.4.0         BAM Components 12.2.1.4.0         Service Bus Designer 12.2.1.4.0         Servi	Installation Summary		
	Auto Updates     Installation Location     Prerequisite Checks     Installation Summary     Installation Progress	<ul> <li>Install Oracle Fusion Middleware 12c SOA Quick Start</li> <li>Installation Location         Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home         Log File Location: /tmp/Oralnstall2020-01-02_11-14-14AM/install2020-01-02_11-14-14AM.log</li> <li>Disk Space         Required: 4042 MB         Available: 425385 MB</li> <li>Feature Sets to Install         Third party JDBC Drivers 12.2.1.4.0         WebLogic Evaluation Database 12.2.1.4.0         SOA Core Components 12.2.1.4.0         Service Bus 12.2.1.4.0         Oracle Enterprise Scheduler 12.2.1.4.0         SoA Foundation Designer 12.2.1.4.0         SoA Foundation Designer 12.2.1.4.0         SoA Foundation Designer 12.2.1.4.0         SoA Foundation Designer 12.2.1.4.0         JBeveloper Spring Extension 12.2.1.4.0         JBeveloper Spring Extension 12.2.1.4.0         JBeveloper Spring Extension 12.2.1.4.0         Service Bus Designer 12.2.1.4.0         Service Bus Designer 12.2.1.4.0         SoA Foundation Designer 12.2.1.4.0         SoA Foundation Designer 12.2.1.4.0         JBeveloper Spring Extension 12.2.1.4.0         JBeveloper Spring Extension 12.2.1.4.0         JBeveloper Spring Extension 12.2.1.4.0         Service Bus Designer 12.2.1.4.0         JBeveloper Spring Extension 12.2.1.4.0         JBeveloper Spring Extension 12.2.1.4.0         JBeveloper Spring Extension 12.2.1.4.0         JBeveloper Spring Extension 12.2.1.4.0         Service Bus Designer 12.2.1.4.0         Service Bus Designer 12.2.1.4.0         Service Bus Designer 12.2.1.4.0         JBeveloper Spring Extension 12.2.1.4.0         JBeveloper Spring Extension 12.2.1.4.0         Service Bus Designer 12.</li></ul>	

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.

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Oracle Fusion Middleware 12c SOA Quick Start Installation - Step 6 of 7 ×						
Installation Progress						
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## 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.

Orac	le Fusion Middleware 12c SOA Quick Start Inst	tallation - Step 7 of 7	×
Installation Complete			
<ul> <li>Welcome</li> <li>Auto Updates</li> <li>Installation Location</li> <li>Prerequisite Checks</li> <li>Installation Summary</li> <li>Installation Progress</li> <li>Installation Complete</li> </ul>	<ul> <li>Install Oracle Fusion Middleware 12c SOA Quick Start</li> <li>Installation Location         <ul> <li>Oracle Home Location: /home/oracle/Oracle/N Log File Location: /tmp/Oralnstall2020-01-02_1</li> <li>Feature Sets Installed Successfully             <ul></ul></li></ul></li></ul>	1-14-14AM/install2020-01-02_11-14-14A	M.log
Help		< Back Next >	ish Cancel

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.

Welcome       Specify a unique prefix for all schemas created in this session, so you can easily locate, reference, and manage t schemas later.         Create Repository       Database Connection Details         Select Components       Select existing prefix:         Schema Passwords       Map Tablespaces         Summary       Component         Completion Summary       Oracle AS Repository Components         Component       Schema Owner         Schema Passwords       Map Tablespaces         Summary       Component         Component       Schema Owner         Schema Passwords       Schema Owner         Summary       Component         Component       Schema Owner         Schema Passwords       Schema Owner         Summary       Component Services *         Oracle AS Repository Components       DEV_STB         Oracle Platform Security Services       DEV_SSS         Oracle Platform Security Services       DEV_JOPSS         Oracle Matt Services Append       DEV_JAU         Audit Services Append       DEV_JAU_VIEWER         Metadata Services       DEV_MUS         SOA Suite       DEV_SOAINFRA         * Mandatory component. Mandatory components cannot be deselected.				FUSION MIDDLEWARE	
Welcome       schemas later.         Create Repository       Database Connection Details         Select Components       Select existing prefix:         Schema Passwords       Alpha numeric only. Cannot start with a number. No special characters.         Map Tablespaces       Summary         Completion Summary       Component Services *         © Oracle AS Repository Components       Schema Owner         © Oracle Platform Security Services       DEV_STB         © Oracle Platform Security Services       DEV_SS         © Oracle Platform Security Services       DEV_IAU         © Audit Services Append       DEV_LAU         © Audit Services Viewer       DEV_IAU         © Metadata Services       DEV_IAU         © Metolata Services       DEV_IAU         © Metolata Services *       DEV_SOAINFRA					
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Schema Passwords       Alpha numeric only. Cannot start with a number. No special characters.         Map Tablespaces       Summary         Completion Summary       Schema Owner         Image: Completion Summary       Image: Components         Image: Component Summary       Common Infrastructure Services *         Image: Component Summary       Image: Common Infrastructure Services *         Image: Component Summary       Image: Common Infrastructure Services *         Image: Common Infrastructure Services *       DEV_STB         Image: Common Infrastructure Services *       DEV_OPSS         Image: Common Infrastructure Services *       DEV_UNES         Image: Common Infrastructure Services *       DEV_UNES         Image: Common Infrastructure Services *       DEV_IAU_APPEND         Image: Common Infrastructure Services *       DEV_MDS         Image: Common Infrastructure Services *       DEV_MDS         Image: Common Infrastructure Services *       DEV_SOAINFRA	Select Components	Create now profive	DEV		
Map Tablespaces       Schema Owner         Summary       Component       Schema Owner         Completion Summary       Image: Components       Image: Components         Image: Component Summary       Image: Components       Image: Components	Schema Passwords	Cleate new prenx.			
Summary       Component       Schema Owner         Completion Summary       Image: Component Security Components       Image: Component Security Services *       DEV_STB         Image: Component Security Services *       DEV_STB       Image: Component Security Services *       DEV_STB         Image: Component Security Services *       DEV_STB       Image: Component Security Services *       DEV_STB         Image: Component Security Services *       DEV_LSS       Image: Component Security Services *       DEV_LSS         Image: Component Security Services *       DEV_LAU       Image: Component Security Services *       DEV_LAU         Image: Component Security Services *       DEV_LAU       Image: Component Security Services *       DEV_LAU         Image: Component Security Services *       DEV_LAU       Image: Component Security Services *       DEV_LAU         Image: Component Security Services *       DEV_LAU       Image: Component Security Services *       DEV_LAU         Image: Component Security Services *       DEV_MDS       Image: Component Security Services *       DEV_MDS         Image: Component Security Services *       Image: Component Security Services *       DEV_MDS       Image: Component Security Services *         Image: Component Security Services *       Image: Component Security Services *       Image: Component Security Services *       Image: Component Security Services			Alpha numeric only. Canr	not start with a number. No special c	haracters.
Summary       Image: Completion Summary         Completion Summary       Image: Common Infrastructure Services *         Image: Common Infrastructure Services *       DEV_STB         Image: Common Infrastructure Services *       DEV_OPSS         Image: Common Infrastructure Services *       DEV_OPSS         Image: Common Infrastructure Services       DEV_OPSS         Image: Common Infrastructure Services       DEV_LSS         Image: Common Infrastructure Services       DEV_LAU         Image: Common Infrastructure Services       DEV_LAU         Image: Common Infrastructure Services       DEV_LAU         Image: Common Infrastructure Infrastructure       DEV_MDS         Image: Common Infrastructure Infrastructure       DEV_SOAINFRA	Map Tablespaces	0		Oct and Octavity	
Completion Summary       Image: Common Schemas         Image: Common Infrastructure Services *       DEV_STB         Image: Common Infrastructure Services *       DEV_OPSS         Image: Common Infrastructure Services *       DEV_LSS         Image: Common Infrastructure Services *       DEV_UMS         Image: Common Infrastructure Services *       DEV_IAU         Image: Common Infrastructure Services *       DEV_IAU         Image: Common Infrastructure *       DEV_MDS         Image: Common Infrastructure *       DEV_SOAINFRA	Summary	· · · · · · · · · · · · · · · · · · ·	Commonanto	Schema Owner	
Image: Common Infrastructure Services *       DEV_STB         Image: Common Infrastructure Services *       DEV_OPSS         Image: Common Infrastructure Services *       DEV_LSS         Image: Common Infrastructure Services *       DEV_LMU         Image: Common Infrastructure       DEV_LAU         Image: Common Infrastructure       DEV_MDS         Image: Common Infrastructure       DEV_SOAINFRA	Completion Summary				
Image: Control of Contro of Contro of Contro of Control of Control of Control of Control o				DEV STB	
Image: Control of Contro of Contro of Contro of Control of Control of Control of Control o					
User Messaging Service       DEV_UMS         Audit Services       DEV_IAU         Audit Services Append       DEV_IAU_APPEND         Audit Services Viewer       DEV_IAU_VIEWER         Metadata Services       DEV_MDS         Weblogic Services *       DEV_WLS         SOA Suite			,		
Image: Construction of the service serv				DEV_UMS	
Image: Construction of the services of the se		Audit Services	*	DEV_IAU	
✓ Metadata Services     DEV_MDS       ✓ Weblogic Services *     DEV_WLS       ☑ SOA Suite        ☑ SOA Infrastructure     DEV_SOAINFRA		✓ Audit Services	Append	DEV_IAU_APPEND	5
✓ Weblogic Services *     DEV_WLS       ☑ SOA Suite        ☑ SOA Infrastructure     DEV_SOAINFRA					
SOA Suite SOA Infrastructure DEV_SOAINFRA					
SOA Infrastructure DEV_SOAINFRA			ices *	DEV_WLS	
			•		
		SOA Intrastruc	ture	DEV_SUAINFRA	
		SOA Infrastruc			

Select the **Create new prefix** radio button and provide a schema prefix (such as DEV). 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:

r

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						
P Templates						
Administrator Account						
Domain Mode and JDK						
Advanced Configuration						
<u>Configuration Summary</u>	What do you want to do?					
Configuration Progress	Create a new expanded domain					
O End Of Configuration	Create a new compact <u>d</u> omain					
	O Update an existing domain					
	Domain Location: racle/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain Browse					
Help	up to included additional Managed Servers and clusters.           < Back         Einish         Cancel					

Click Next to continue.

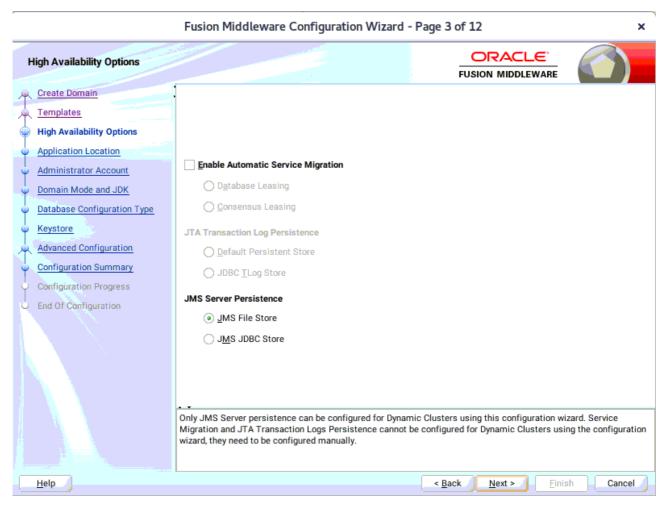
## 2). The Templates screen appears.

Fusion Middleware Configuration Wizard - Page 2 of 11 ×							
Templates							
Create Domain  Femplates  High Availability Options  Application Location  Administrator Account  Domain Mode and JDK  Database Configuration Type  Advanced Configuration  Configuration Summary  Configuration Progress End Of Configuration	<ul> <li>Create Domain Using Product Templates:</li> <li>Filter Templates: Type here</li> <li>Include all selected templates</li> <li>Available Templates</li> <li>Basic WebLogic Server Domain [wlserver] *</li> <li>Insight [soa]</li> <li>Oracle B2B Reference Configuration [soa]</li> <li>Oracle B2B Reference Configuration [soa]</li> <li>Oracle B2B Reference Configuration [soa]</li> <li>Oracle B2B Client [soa]</li> <li>Oracle Enterprise Manager Plugin for ESS [em]</li> <li>Oracle Enterprise Manager [em]</li> <li>Oracle Enterprise Manager [em]</li> <li>Oracle API Manager [osb]</li> <li>Oracle Service Bus Reference Configuration [osb]</li> <li>Create Domain Using Custom Template:</li> <li>Template location: /home/oracle/Oracle/Middlewar</li> </ul>	re/Oracle_Home	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Help		< Back Next > Einish Can	cel				

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 Reference Configuration [soa] ٠ Selecting this template automatically selects the following as dependencies:
  - Oracle Enterprise Manager [em]
  - Oracle WSM Policy Manager [oracle common]
  - Oracle JRF [oracle common]
  - WebLogic Coherence Cluster Extension [wlserver]
- Oracle Service Bus Reference Configuration [osb] ٠
  - Selecting this template automatically selects the following as a dependency: •
    - ODSI XQuery 2004 Components [oracle\_common]
- WebLogic Advanced Web Services for JAX-RPC Extension [oracle common] ٠
- Oracle Enterprise Scheduler Service Basic [oracle common]
- Oracle Enterprise Manager Plugin for ESS [em]

Click Next to continue.



3). The High Availability Options screen appears.

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

×

Fusion Middleware Configuration Wizard - Page 4 of 12 ORACLE<sup>®</sup> **Application Location** FUSION MIDDLEWARE Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Domain name: base\_domain Keystore Domain location: /home/oracle/Oracle/Middleware/Oracle\_Home/user\_projects/domains Advanced Configuration Application location: Oracle/Middleware/Oracle\_Home/user\_projects/applications/base\_domain B<u>r</u>owse Configuration Summary **Configuration Progress** End Of Configuration < <u>B</u>ack Cancel <u>H</u>elp <u>N</u>ext > <u>F</u>inish

## 4). The Application Location screen appears.

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

r	Fusion Middleware Configuration Wizard - Page 5 of 12 ×						
A	Administrator Account						
1	Create Domain Templates	•					
T	High Availability Options						
Ţ	Application Location						
	Administrator Account						
ų	Domain Mode and JDK						
	Database Configuration Type						
	Keystore	Name	weblogic				
	Advanced Configuration	Password					
ų	Configuration Summary	Confirm Password					
Ý	Configuration Progress						
ų	End Of Configuration						
		Must be the same as number or special ch	s the password. Password must cont paracter.	ain at least 8 alphanumeric characte	rs with at least one		
	Help			< <u>B</u> ack <u>N</u> ext > F	inish 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.

-

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

	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</li> <li>Production</li> <li>Require the entry of a username and password</li> </ul> JDK <ul> <li>Oracle HotSpot 1.8.0_221 /home/oracle/ORACL</li> <li>Other JDK Location:</li> </ul>	l, and do not poll for applications to deploy. E_SW/Java/jdk1.8.0_221	3 <u>r</u> owse				
Help		< Back Next > Finish	Cancel				

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						
<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>Keystore</li> <li>Advanced Configuration</li> <li>Configuration Summary</li> <li>Configuration Progress</li> <li>End Of Configuration</li> </ul>	FUSION MIDDLEWARE         Specify AutoConfiguration Options Using:            • <u>R</u> CU Data <u>Embedded Database (JavaDB)</u> <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:       hpgen9-01         DBMS/Service:       suse       Port: 1521         Schema Owner:       DEV_STB       Schema Password:         Get RCU Configuration       Cancel         Connection Result Log       Connection database serverOK         Binding local schema acomponents with retrieved dataOK       Successfully Done.					
Help	Click "Next" button to continue.					

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.

## Oracle Fusion Middleware 12c on SLES 15 SP1

# 8). The JDBC Component Schema screen appears.

r

T	Fusion Middleware Co	onfiguration	Wizard - Page 8	3 of 14		×	
JDBC Component Schema							
Create Domain Templates High Availability Options Application Location	Vendor:	O Connection				\ \ \	
Administrator Account     Domain Mode and JDK     Database Configuration Type     Component Datasources	DBMS/Service:       Port:         Schema Owner:       Schema Password:         Oracle RAC configuration for component schemas:						
<u>JDBC Test</u> <u>Keystore</u> <u>Advanced Configuration</u>	Convert to Edits to the data above will af	0	convert to RAC multi rows in the table be Host Name		e ODon't co Schema Owner	nvert Schema Password	
Configuration Summary	SOA EDN (XA)	SUSE	hpgen9-01	1521	DEV_SOAINFR4		
Configuration Progress	SOA EDN (Local)	SUSE	hpgen9-01	1521	DEV_SOAINFR4		
End Of Configuration	ESS Schema	SUSE	hpgen9-01	1521	DEV_ESS		
	LocalSvcTbl Schema	SUSE	hpgen9-01	1521	DEV_STB		
	User Messaging Service	SUSE	hpgen9-01	1521	DEV_UMS		
	SOA (XA)	SUSE	hpgen9-01	1521	DEV_SOAINFR4		
	SOA (Local) SUSE hpgen9-01 1521 DEV_SOAINFR# ······						
	WLS Schema SUSE hpgen9-01 1521 DEV_WLS_RUN ······						
	Eee MDe Cohomo	eller.	hogoof.01	1591	DEV MDC	······	
Help			< <u>B</u>	ack <u>N</u>	lext >Ein	ish Cancel	

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

#### 194

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

Fusion Middleware Configuration Wizard - Page 9 of 14 ×						
JDBC Component Schema Test						
Create Domain		Status	Component Schema	JDBC Connection URL		
Templates		<b>V</b>	SOA EDN (XA)	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE		
High Availability Options		<b>V</b>	SOA EDN (Local)	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE		
Application Location		<b>a</b>	ESS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE		
		<b>V</b>	LocalSvcTbl Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE		
<u>Administrator Account</u>	<b>v</b>	<b>V</b>	User Messaging Service	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE		
Domain Mode and JDK		<b>V</b>	SOA (XA)	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE		
Database Configuration Type		<b>V</b>	SOA (Local)	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE		
Component Datasources		<b>V</b>	WLS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE		
JDBC Test		<b>V</b>	ESS MDS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE		
		<b>V</b>	OWSM MDS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE		
<ul> <li><u>Keystore</u></li> <li><u>Advanced Configuration</u></li> <li><u>Configuration Summary</u></li> <li>Configuration Progress</li> <li>End Of Configuration</li> </ul>	Test Selected Connections       Cancel Testing         Connection Result Log       Image: Connection Result Log         Component Schema=SOA EDN (XA)       Image: Connection ConcleXADataSource         Driver=oracle.jdbc.xa.client.OracleXADataSource       Image: Connection ConcleXADataSource         URL=jdbc:oracle:thin:@//hpgen9-01:1521/SUSE       Image: Connection ConcleXADataSource         User=DEV_SOAINFRA       Password=********         SQL Test=ISVALID       Image: CFGFWK-64213: Test Successful!         CFGFWK-64213: JDBC connection test was successful.       Image: CFGFWK-64213: No action required         Image: CFGFWK-64213: No action required       Image: CFGFWK-64213: No action required					
Help				< Back Next > Einish Cancel		

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

7

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

	Fusion Middleware Configuration Wizard - Page 10 of 14 ×						
•	Keystore						
1	Create Domain Templates	Store Key Name	ums/apns		Discard Changes		
J	High Availability Options Application Location	Alias		Trusted Certifica	te		
Ý	Administrator Account						
Ţ	Domain Mode and JDK Database Configuration Type						
	Component Datasources JDBC Test						
ļ	Keystore						
	Advanced Configuration Configuration Summary	Alias	Private Key	Password	Identity Certificate		
þ	Configuration Progress		,		,,		
0	End Of Configuration						
	Help			< <u>B</u> ack	Next > Einish Cancel		

**,** 

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

٦

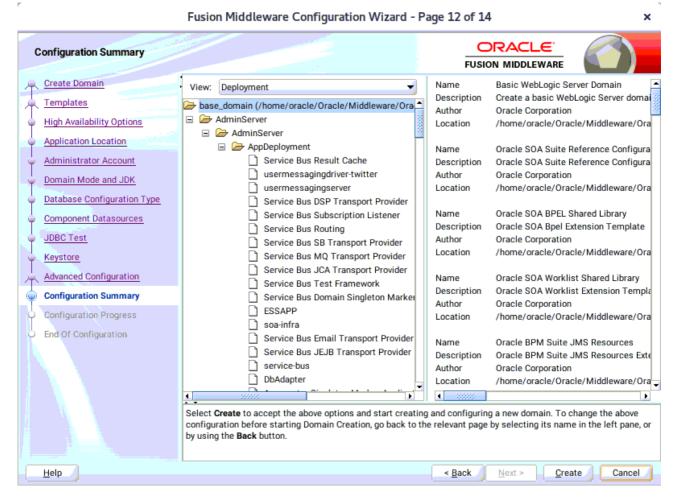
## 11). The Advanced Configuration screen appears.

r

Fusion Middleware Configuration Wizard - Page 11 of 14 ×					
Advanced Configuration					
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Keystore	Administration Server Modify Settings Node Manager Configure Node Manager      Topology Add, Delete or Modify Settings for Managed Servers, 4      Domain Frontend Host Capture Configure Domain Frontend Host	Clusters, Virtual Targets and Coherence			
Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Deployments and Services     Target to Servers or Clusters     File Store     Modify Settings				
Help		< Back Next > Finish	Cancel		

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.

Fusion Middleware Configuration Wizard - Page 13 of 14						×
Configuration Progress						
Create Domain		100%				
Templates		100%				
High Availability Options	Copy Unprocessed Artifacts					
Application Location	OPSS Processing					
Administrator Account	OWSM Processing     Security Processing					
Domain Mode and JDK	Artifacts Generation					
Sector and the sector	<ul> <li>String Substitution</li> </ul>					
<ul> <li>Database Configuration Type</li> </ul>	Vert Processing					
Component Datasources						
O JDBC Test						
Keystore						
Advanced Configuration						
Configuration Summary						
Configuration Progress						
End Of Configuration						
<u>H</u> elp			< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	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.

C 15	er_projects/domains/base_domain/bin	:
ile Edit View Search Terminal Tabs Help		
oracle@hpgen9-01:/home/oracle/O × oracle@hpgen9-01:/home/oracle/Or ×	oracle@hpgen9-01:/home/oracle/Or ×	Æ,
<pre>0:0:0:0:0:0:0:1%lo:7001 for protocols iiop, t3, ldap, snmp, http.&gt; Dan 2, 2020 1:06:15,138 PM GMT+08:00&gt; <notice> <server> <bea-002613> 2:207.96:7001 for protocols iiop, t3, ldap, snmp, http.&gt; Dan 2, 2020 1:06:15,363 PM GMT+08:00&gt; <warning> <ejb> <bea-010241>  cation: ESSAPP, EJBComponent: ess-ejb.jar) has connected to Resource endConnectionOnStart is ignored, because it is not supported by JCA- Dan 2, 2020 1:06:15,408 PM GMT+08:00&gt; <warning> <ejb> <bea-010241>  Application: usermessagingserver, EJBComponent: engine-ejb.jar) has essageReceiver. Property weblogic.mdbs.suspendConnectionOnStart is i ased Message-Driven Bean.&gt; Dan 2, 2020 1:06:15,555 PM GMT+08:00&gt; <warning> <oracle.mds> <bea-010241>  oracle/apps/ess/custom" is overlapping with namespace mapping for "/or nt.&gt; Dan 2, 2020 1:06:15,610 PM GMT+08:00&gt; <warning> <ejb> <bea-010241>  cation: EssNativeHostingApp, EJBComponent: native-ess-ejb.jar) has c / weblogic.mdbs.suspendConnectionOnStart is ignored, because it is n .&gt; Dan 2, 2020 1:06:15,620 PM GMT+08:00&gt; <warning> <ejb> <bea-010241>  cation: usermessagingserver, EJBComponent: engine-ejb.jar) has c / weblogic.mdbs.suspendConnectionOnStart is ignored, because it is n .&gt; Dan 2, 2020 1:06:15,620 PM GMT+08:00&gt; <warning> <ejb> <bea-010241>  (Application: usermessagingserver, EJBComponent: engine-ejb.jar) has MessageReceiver. Property weblogic.mdbs.suspendConnectionOnStart is Dan 2, 2020 1:06:15,622 PM GMT+08:00&gt; <notice> <weblogicserver> <bea ====&gt; ResourceBundleListFromConfig topDirs : [] ===&gt; found 0 SOA composites to deploy in group 0 . Using 5 threads fo ager : 0 CompositeLazyLoading enabled. CompositeLazyDeployment disab eploying 0 composites took 0 ms &gt;deploying 0 composites took 8 ms Dan 2, 2020 1:06:15,667 PM GMT+08:00&gt; <notice> <weblogicserver> <bea< pre=""></bea<></weblogicserver></notice></br></bea </weblogicserver></notice></bea-010241></ejb></warning></br></bea-010241></ejb></warning></br></br></bea-010241></ejb></warning></bea-010241></oracle.mds></warning></br></br></bea-010241></ejb></warning></bea-010241></ejb></warning></bea-002613></server></notice></pre>	The Message-Driven Bean ESSAppEndpo Adapter ess/ra. Property weblogic. Based Message-Driven Bean.> The Message-Driven Bean MessageRece connected to Resource Adapter jca/E gnored, because it is not supported 0000> <mds-01364: mapping<br="" namespace="">acle/apps/ess"; the first mapping i The Message-Driven Bean ESSAppEndpo onnected to Resource Adapter ess/ra ot supported by JCA-Based Message-D The Message-Driven Bean MessageForw connected to Resource Adapter jca/ ignored, because it is not supporte -000360&gt; <the in="" run<br="" server="" started="">or composite load. composite count f led.</the></mds-01364:>	int(App mdbs.su iverBea ngineJm by JCA for "/ s redun int(App riven B rarderBe EngineJ d by JC. NING mo

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:
Login	i uge.

Sign in - Oracle Enterprise Manager - Mozilla Firefox
<u>F</u> ile <u>E</u> dit <u>V</u> iew History <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp
EM Express - Database Hox Sign in - Oracle Enterprise Mox +
(←) → C 1 1 (1) 1/2 http://hpgen9-01:7001/em/faces/targetauth/emasLogin?target 80% … ♥ ☆ III\ 🗉 Ξ
SIGN IN TO ORACLE ENTERPRISE MANAGER FUSION MIDDLEWARE CONTROL 12c
Domain Domain_base_domain         * User Nume         * Password         Login to Partition         Sign in

## Home Page:

	base_domain (Oracle Web	Logic D	Domain) - Ora	acle Enterprise M	Aanager - Mozilla Fir	efox		×
<u>File Edit View History</u>	<u>B</u> ookmarks <u>T</u> ools <u>H</u> el	p						
🖸 EM Express - Database Ho	× base_domain (Oracle Wel	bLog 🗙	+					
← → ⊂ ŵ	(i) http://hpgen9-01:7001/e	em/face	s/as-weblogic	-webLogicDoma	inH 80% ••	·· 🛡 🏠	lii\	⊡ =
	anager Fusion Middleware Control 12c					KebLogic Do	main 🔻 weblogi	
base_domain 0							🛛 👻 🛛 Auto Refresh	
🔚 WebLogic Domain 🔻						Jan	2, 2020 1:10:19 PM GM	-
i Information	ual. Total login time is 94843 ms, discov	on time i	s 94261 ms. Cons	ider enabling discours	nu eache andler improving	application conversion	norformance	×
Login is taking more time that us	dal. Iota Iogii une is 54645 ilis, discov	ery une i	5 54201 ms. com	ider enability discove	ary cache analor improving	application server	periormance.	
1 up	Servers Administration Server       1 up     Name AdminiServer       Host hpgen9-01       Listen Port 7001							
Clusters	Servers							
0 >	View 🔻 🎽 Create 🗙 Delete	Contro	ol 🔻 🕎					
Clusters	Name	Status	Cluster	Machine	State	Health	Listen Port	CPU Usa (
	AdminServer(admin)	+			Running	ок	7001	0.
Deployments 2 Down 48 Up 55 N/A								
Domain Partitions	Columns Hidden 34						Serve	rs 1 of 1

	Sig	gn In - Mozilla Firefox			×
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>E</u>	<u>3</u> ookmarks <u>T</u> ools <u>H</u> elp				
🖸 EM Express - Database 🗏 🗙	base_domain (Oracle WebLo $\times$	Sign In	× +		
$\leftarrow \rightarrow$ C $\textcircled{a}$	🕽 🔏 http://hpgen9-01:7001/soa/co	omposer/faces/login	80% 🛛 🕶 🕁	III\ 🗊	≡
		SIGN IN TO SOA COMPO	SER		
		weblogic •••••••••		ORACLE	
Copyright 2004, 2019, Oracle	e and/or its affiliates. All rights reserved. Acces	ssibility			

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

	SOA C	Composer - Mozilla Firefox	×
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory	<u>B</u> ookmarks <u>T</u> ools <u>H</u> elp		
🖸 EM Express - Database 🗄 🗙	base_domain (Oracle WebLor $ imes$	SOA Composer × +	
$\left( \leftrightarrow \right) \rightarrow C$	i http://hpgen9-01:7001/soa/com	poser/faces/home?_adf.no-new-	☆ III\ 🗊 🗏
ORACLE' SOA Composer			Links v weblogic v
			٩
Deployment View 🔻 🖒 🕎	CaseManagementBaseDictionary.rules ×		
SOA Infra	Rules Value Sets Globals	Granslations Advanced >	Actions 🔻
Metadata	Rule Set 1 v View Properties		
CaseManagementBaseDictio	A By Type	Rule lypes	
Dynamic Rousing, rules	Search By Alias	Decision Table A set of rules organized in a table format that take effect based on one or	
	Click + above to create a rule	more input conditions and then involve a corresponding output action General If/Then Rule	
		A rule that takes effect based on one or more of input conditions.	
	Diagnostics History Center Logs		

#### Oracle Fusion Middleware 12c on SLES 15 SP1

BPM Worklist - Mozilla Firefox	×
<u>File Edit View History Bookmarks Tools H</u> elp	
base_domain (Oracle WebLor × SOA Composer × BPM Worklist × +	
(←) → C'        ①        ▲ http://hpgen9-01:7001/integration/worklistapp/faces/login.jsp>       80%       •••        ▼        ↓       □	≡
SIGN IN TO BPM WORKLIST	

# Access to BPM worklistapp - URL: http://host:7001/integration/worklistapp

Elle Edit View History Bookmarks Tools Help   base_domain (Oracle WebLo × SOA Composer × BPM Worklist × +		BPM Worklist - Mozilla Firefox	×
	<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory	y <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp	
Views Actions +	base_domain (Oracle WebLo	× SOA Composer × BPM Worklist × +	
Views     Actions v     Status     Title     Number     Ceator     Assigned     Ne data to display     Views        Due Soon                          Views <td>(←) → C' ŵ</td> <td>① http://hpgen9-01:7001/integration/worklistapp/faces/home.jspx 80% ♥ ☆</td> <td> II\ 団 ≡</td>	(←) → C' ŵ	① http://hpgen9-01:7001/integration/worklistapp/faces/home.jspx 80% ♥ ☆	II\ 団 ≡
Status Bit Title     Inbox     My Tasks (0)   Indiated Tasks   Administrative Tasks (0)   Oue Soon   High Priority   Past Oay   Past Oay   Past Week   Past Quarter   New Tasks     Search Other User's Views     Search Other User's Views	ORACLE BPM Worklist		🕲 weblogic 🛪 📖
Indiated Tasks   Administrative Tasks (0)   Initiated Tasks   Administrative Tasks (0)   Views   Due Soon   High Priority   Past Day   Past Day   Past Week   Past Week   Past Month   Past Quarter   New Tasks	Views + 🗸 🛪 🛥		
Initiated Tasks Administrative Tasks (0) Views Due Soon High Priority Past Day Past Day Past Week Past Month Past Quarter New Tasks	Inbox	No data to display	
Administrative Tasks (i)   Views   Due Soon   High Priority   Past Day   Past Day   Past Week   Past Week   Past Month   Past Quarter   New Tasks	My Tasks (0)		
Views Ue Soon High Priority Please select a task to see the details Past Day Past Week Past Month Past Quarter New Tasks Search Other User's Views	Initiated Tasks		
Due Soon   High Priority   Past Day   Past Week   Past Wonth   Past Quarter   New Tasks	Administrative Tasks (0)		
High Priority Please select a task to see the details   Past Day   Past Week   Past Month   Past Quarter   New Tasks	Views		
Please select a task to see the details Please	Due Soon		-
Past Day   Past Week   Past Month   Past Quarter   New Tasks     Search Other User's Views	High Priority	Please select a task to see the details	
Past Month Past Quarter New Tasks Search Other User's Views Q	Past Day	רופגים ספופט א נוס איני של איני איני איני איני איני איני איני אינ	
Past Quarter New Tasks Search Other User's Views	Past Week	8	
New Tasks Search Other User's Views	Past Month		
Search Other User's Views	Past Quarter		
	New Tasks		
	Search Other User's Views		
No Data to display	9		
	No Data to display		

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# 2). Access to Administration Server Console

Oracle WebLogic Server Administration Console - Mozilla F	irefox	×
<u>File Edit View History Bookmarks Tools H</u> elp		
base_domain (Oracle WebLoc × SOA Composer × BPM Worklist × C	Dracle WebLogic Server Adm $\times$ +	
← → C <sup>a</sup>	80% 🛇 🏠 💷 💷	≡
ORACLE WebLogic Server Administration Console 12c		
	Welcome	
	Log in to work with the WebLogic Server domain	
	Usemame: weblogic	
	Password:	
	Login	
WebLogic Server Version: 12.2.1.4.0 Copyright (c) 1996,2019, Oracie and/or its affiliates. All rights reserved. Oracle is a registered trademark of locate Corporation and/or its affiliates. Other names may be trademarks of their respective owners.		
urade is a registered trademark of urade corporation analytic its annuales. Unter hartes hay be trademarks of their respective owners.		

#### Login Page as shown below:

# Home Page:

	Home Page - base_d	omain - WLS Console - Mozilla Fir	efox	×
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory	<u>B</u> ookmarks <u>T</u> ools <u>H</u> elp			
base_domain (Oracle WebLog	× SOA Composer ×	BPM Worklist ×	Home Page - base_domain - 🗙 🕂	
$\overleftarrow{\bullet}$ > C' $\overleftarrow{\bullet}$	(i) http://hpgen9-01:7001/console/c	onsole.portal?_nfpb=true&	E (80%) ···· ♥ ☆ III\ E	≡
ORACLE WebLogic Server Adr	ministration Console 12c		9	
Change Center	🏦 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: base_doma	in
View changes and restarts	Home			1
Configuration editing is enabled. Future	Home Page			11
changes will automatically be activated as you modify add or delete items in this domain.	- Information and Resources			
Domain Structure	Helpful Tools	General Information		
base_domain	<ul> <li>Configure applications</li> </ul>	<ul> <li>Common Administration Task Descriptions</li> </ul>		
-Domain Partitions     -Environment	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>		18
Deployments	Recent Task Status	<ul> <li>Ask a question on My oracle Support</li> </ul>		18
Services     Security Realms	<ul> <li>Set your console preferences</li> </ul>			18
Interoperability	Oracle Enterprise Manager			18
Diagnostics	Domain Configurations			
	-			18
	Domain	Resource Group Templates	Interoperability	18
	• Domain	Resource Group Templates	WTC Servers     Jolt Connection Pools	18
	Domain Partitions	Resource Groups	Juli connection Pools	18
How do I 🖂	Domain Partitions	Resource Groups	Diagnostics	
Search the configuration	Partition Work Managers		Log Files	18
Use the Change Center		Deployed Resources	Diagnostic Modules	18
Record WLST scripts	Environment	Deployments	Built-in Diagnostic Modules	
Change Console preferences	Servers		Diagnostic Images	18
Manage Console extensions     Monitor servers	Clusters	Services	Request Performance     Archives	18
	<ul> <li>Server Templates</li> <li>Migratable Targets</li> </ul>	Messaging	Context	
System Status	Coherence Clusters	<ul> <li>JMS Servers</li> <li>Store-and-Forward Agents</li> </ul>	SNMP	11
Retrieving Health Data	Machines	<ul> <li>JMS Modules</li> </ul>	Interceptors	11
	Virtual Hosts	<ul> <li>Path Services</li> </ul>		
Failed (0) Critical (0)	Virtual Targets	<ul> <li>Bridges</li> </ul>	Charts and Graphs	
Overloaded (0)	Work Managers	Data Sources	Monitoring Dashboard	
Warning (0)	Concurrent Templates	Persistent Stores		
ОК (0)	Resource Management	XML Registries		
	Startup And Shutdown Classes	XML Entity Caches		

Summary of Servers - base_domain - WLS Console - Mozilla Firefox							×	
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp								
base_domain (Oracle WebLor × SOA Composer × BPM Worklist × Summary of Servers - base_C × +								
← → ♂ ✿	i http://hpgen9-01:7001/conso	le/console.portal	?_nfpb=true	&. 🗉 🤇	80% 5	2 🗘	lii\ 🖽	≡
ORACLE WebLogic Server Adm	ORACLE WebLogic Server Administration Console 12c							
Change Center	🏠 Home Log Out Preferences 🖂 Record Help		Q.			Welcome, weblo	gic Connected to: base	_domain
View changes and restarts	Home >Summary of Servers							
Configuration editing is enabled. Future	Summary of Servers							
changes will automatically be activated as you modify, add or delete items in this domain.	Configuration Control							
Domain Structure       base_domain       ⊕-Domain Partitions       ⊕-Environment       ⋮-Deployments       ⊕-Services       ⋮-Record Particles       ⊕-Interoperability       ⊕-Diagnostics	A server is an instance of WebLogic Server that run This page summarizes each server that has been of C2 Customize this table Servers (Filtered - More Columns Exist) New Clone Delete Name ©	configured in the current We		-	State	Showing Health	1 to 1 of 1 Previous Ne Listen Port	ext
How do I 🗉	AdminServer(admin)	Configured			RUNNING		7001	_
Create Managed Servers	New Clone Delete					Showing	1 to 1 of 1 Previous Ne	ext
Clone servers								
Delete Managed Servers     Delete Managed Servers     Start and top servers     View objects in the JND1 tree  System Status Health of Running Servers as of 1:16 PM     Failed (0)     Critical (0)     Overloaded (0)     Warning (0)     OK (1)								

## Viewing the summary of servers:

3). Connecting JDeveloper to the Compact Domain.

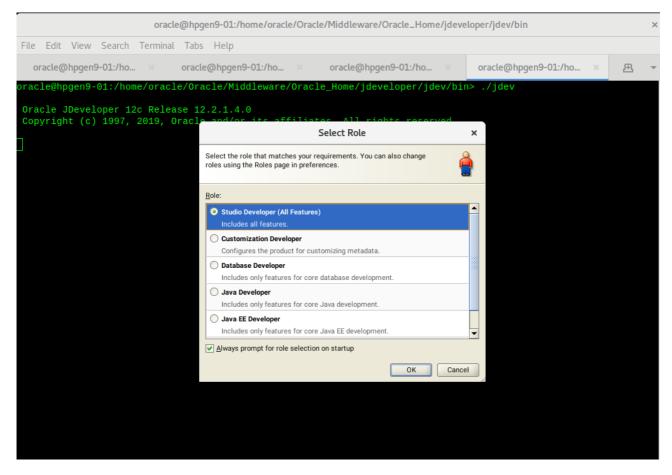
Launch Oracle JDeveloper with the appropriate command.

Ex:

cd \$ORACLE\_HOME/jdeveloper/jdev/bin ./jdev

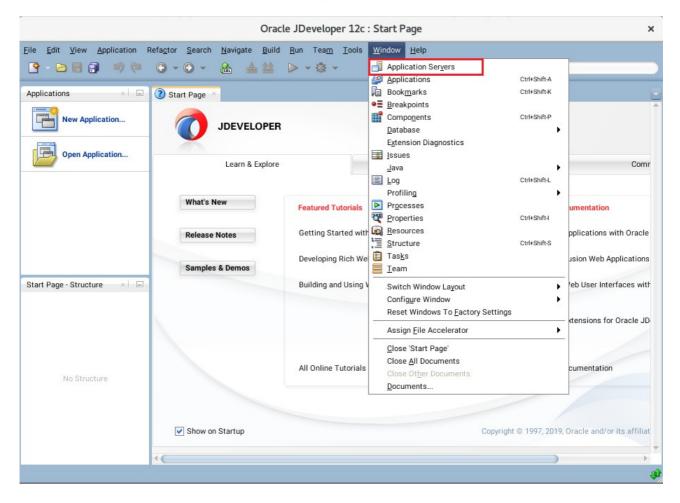
#### Follow these steps:

a1). Select Role.

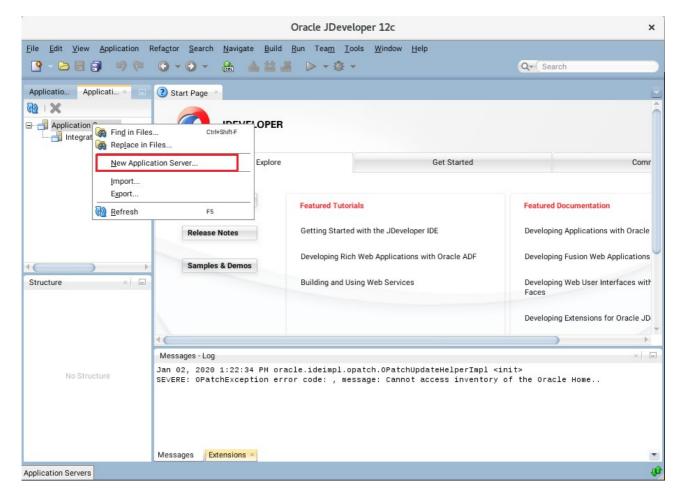


Select the role that matches your requirements. Click **OK** to continue.

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.

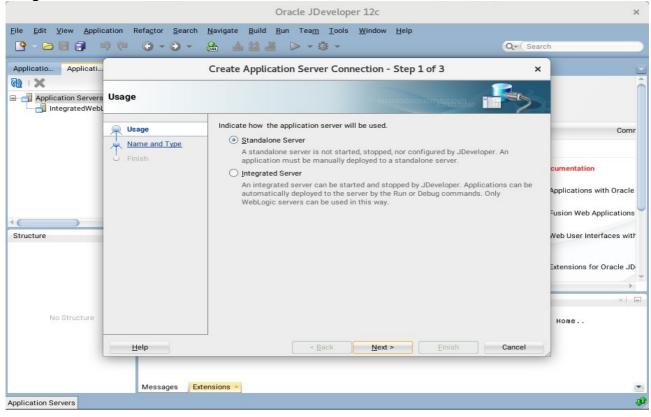


a3). Right-click on **Application Servers** in the Application Server Navigator. Select **New Application Server** from the drop-down menu to launch the **Create Application Server Connection** wizard.



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

#### Usage screen.



#### Name and Type screen.

		Oracle JDeveloper 12c	×
	cation Refa <u>c</u> tor <u>S</u> earch	Navigate       Build       Run       Team       Tools       Window       Help	rch
Applicatio Applicati	Name and Type	Create Application Server Connection - Step 2 of 3 × Output Description Specify a unique name and type for the connection. The name must be a valid Java identifier. Create connection in: IDE Connections Connection Name: SuSETest1 Connection Type: WebLogic 12.x	Comr cumentation Applications with Oracle Fusion Web Applications Web User Interfaces with
No Structure	Help Messages Ex	< Back Next > Einish Cancel	Extensions for Oracle JD
Application Servers			, i i

		Oracle JDeveloper 12c	×
	eation Refa <u>c</u> tor <u>S</u> earch	Navigate Build Run Team Tools Window Help	h
Applicatio Applicati	Authentication	Create Application Server Connection - Step 3 of 6 ×	Ň
Structure	Visage Name and Type Authentication Configuration Test Finish	Specify a username and password to authenticate the connection. Username: weblogic Password:	Comr cumentation Applications with Oracle susion Web Applications Web User Interfaces with Extensions for Oracle JD
No Structure	Help Messages Ext	< Back Next > Einish Cancel	Home
Application Servers			÷.

## Authentication screen.

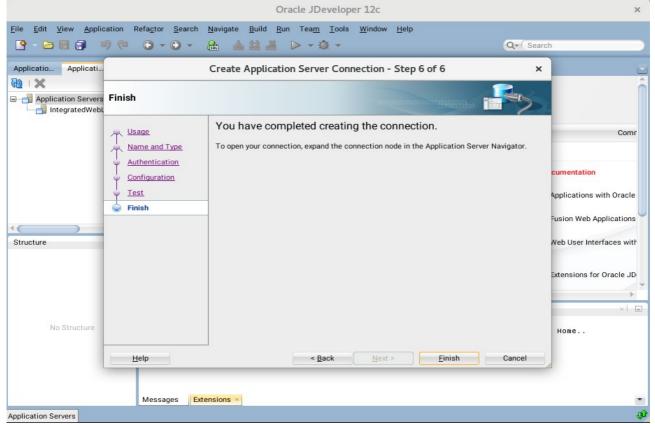
# Configuration screen.

		Oracle JDeveloper 12c	×
	cation Refa <u>c</u> tor <u>S</u> earch	Navigate Build Run Team Tools Window Help A A A A A A A A A A A A A A A A A A A	Search
Applicatio Applicati	Configuration	Create Application Server Connection - Step 4 of 6	×
Structure	Vsage Name and Type Authentication Configuration Test Finish	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):         localhost         Bort:       SSL Port:         7001       7002         Always use SSL         WebLogic Domain:         base_domain	Comr cumentation Applications with Oracle Fusion Web Applications Web User Interfaces with Extensions for Oracle JD
No Structure	Help Messages Ext	< Back Next > Einish Cancel	Home

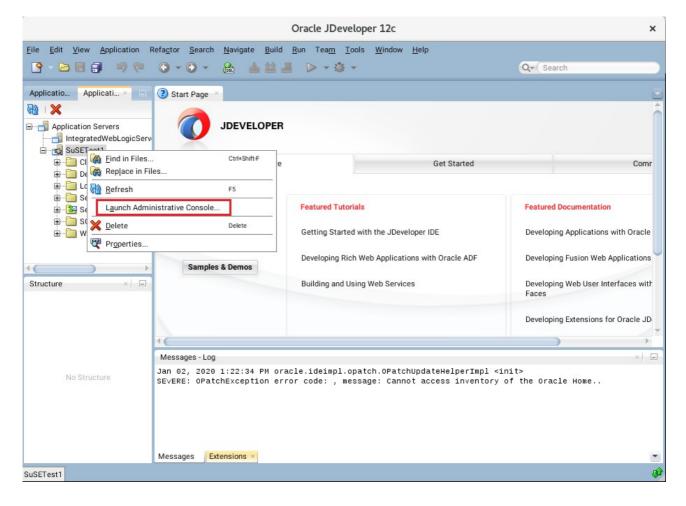
#### Test screen.

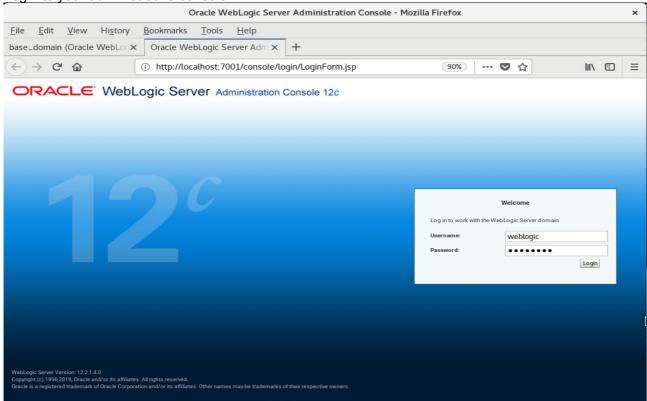
pplicatio Applicati		Create Application Server Connection - Step 5 of 6	:
Application Servers	Test		
	Visage Name and Type Authentication	Click Test Connection to determine if the information specified successfully establishes a connection with the application server.	Com
tructure	Configuration Test Finish	Status:         Testing HTTP Authentication       success         Testing JSR-160 Runtime       success         Testing JSR-160 DomainRuntime       success         Testing JSR-160 Edit       success         Testing JSR-88       success         Testing JSR-88-LOCAL       success         Testing Server MBeans Model       success         Testing JSR-88-DEP-MGR       success         Testing JSR-88-DEP-MGR-LOCAL       success         12 of 12 tests successful.	cumentation Applications with Oracle Fusion Web Applications Web User Interfaces with Extensions for Oracle JE *
No Structure	Help	< Back Next > Finish Cancel	Home

#### Finish screen.



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**.





## Log into your administrative console.

#### Log in successfully.

	Home Page - base_dor	nain - WLS Console - Mozilla Firefo	x ×		
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory	<u>B</u> ookmarks <u>T</u> ools <u>H</u> elp				
base_domain (Oracle WebLoc ×	Home Page - base_domain - × -	F			
		•			
←)→ ♂ ŵ	<ol> <li>http://localhost:7001/console/cons</li> </ol>	ole.portal?_nfpb=true&_p	90% ··· ♥ ☆ Ⅲ\ □ =		
	Administration Console 12c		Q		
Change Center	👔 Home Log Out Preferences 📐 Record Help	Q	Welcome, weblogic Connected to: base_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				
	Helpful Tools	General Information			
Domain Structure	Configure applications	Common Administration Task Descriptions			
base_domain	<ul> <li>Configure GridLink for RAC Data Source</li> </ul>	<ul> <li>Read the documentation</li> </ul>			
Environment	<ul> <li>Configure a Dynamic Cluster</li> </ul>	Ask a question on My Oracle Support			
Deployments	oyments   Recent Task Status				
-Services	Set your console preferences				
Interoperability	Oracle Enterprise Manager				
Diagnostics					
	— Domain Configurations —				
	Domain	Resource Group Templates	Interoperability		
	Domain	Resource Group Templates	WTC Servers		
			Jolt Connection Pools		
How do I	Domain Partitions	Resource Groups	Diagnostics		
<ul> <li>Search the configuration</li> </ul>	Domain Partitions     Partition Work Managers	Resource Groups	Log Files		
Use the Change Center	• Partiton Work Managers	Deployed Resources	Diagnostic Modules		
Record WLST scripts	Environment	Deployments	Built-in Diagnostic Modules		
Change Console preferences	Servers	• •	Diagnostic Images		
<ul> <li>Manage Console extensions</li> </ul>	Clusters	Services	Request Performance		
<ul> <li>Monitor servers</li> </ul>	<ul> <li>Server Templates</li> </ul>	Messaging	Archives		
	<ul> <li>Migratable Targets</li> </ul>	<ul> <li>JMS Servers</li> </ul>	Context		
System Status	Coherence Clusters	Store-and-Forward Agents	SNMP		
Health of Running Servers as of 1:16 PM	Machines	<ul> <li>JMS Modules</li> </ul>	Interceptors		
	Virtual Hosts	Path Services			
Failed (0)	Virtual Targets	<ul> <li>Bridges</li> </ul>	Charts and Graphs		
Critical (0)					

End of Oracle SOA Suite.

*Cracle Access Manager* 

# 1. Installing Oracle Identity and Access Management 12cPS4 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> show parameter open_cursors;						
NAME		TYPE	VALUE			
open_cursors SQL> alter system set op	en_cursors=3	integer 1600 scope=sp				
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 jdk1.8.0\_191 and later installed.

1-2. Log in to the target system (SLES 15 SP1 64-bit OS) as a non-admin user. Download the Oracle Identity and Access Management 12cPS4 (12.2.1.4.0) generic installer .zip file from <a href="https://www.oracle.com/downloads/#category-middleware">https://www.oracle.com/downloads/#category-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\_12.2.1.4.0\_idmqs\_Disk1\_1of2.zip" and "fmw\_12.2.1.4.0\_idmqs\_Disk1\_2of2.zip") files and launch the installation program by running '**fmw\_12.2.1.4.0\_idmquickstart.jar**'

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

1). Installation Inventory Setup.

Oracle Fusion Mide	lleware 12c Oracle Identity	Management QuickSta	rt Installer. ×		
Installation Inventory Setup					
Central Inventory Directory Enter the Central inventory of inventory directory if it does	lirectory for all your oracle installation not exist.	ns.The installer will create a r	new central		
Inventory Directory:	/home/oracle/oralnventory Enter the full path for the directory.		Browse		
Operating System Group :	oinstall Specify a group with write permiss	ion to the inventory directory	•		
pointer file, which is used to	le (createCentralInventory.sh) in the inv o identity the location of the central in such as patching and upgrade.				
Help		<u>0</u> K	Cancel		

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.

# 2). Welcome page appears.

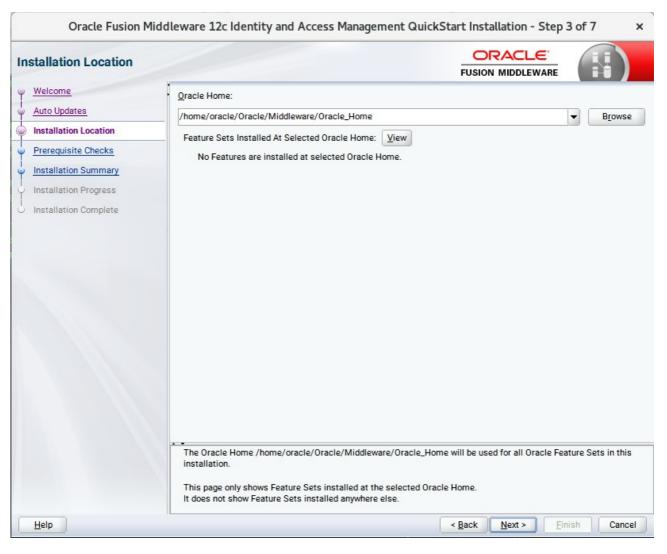
/elcome	
Welcome	
Auto Updates	Welcome to the Oracle Fusion Middleware 12c (12.2.1.4.0) IDM Suite Quick Start Installer.
Installation Location	Use this installer to create a new Oracle home that contains everything you need to manage privileges and protect applications with the Oracle IDM Suite software for production or evaluation.
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 $\underline{H}$ elp button.
	Copyright (c) 2010, 2019, Oracle and/or its affiliates. All rights reserved.

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

# Oracle Fusion Middleware 12c Identity and Access Management QuickStart Installation - Step 2 of 7 × ORACLE **Auto Updates** FUSION MIDDLEWARE Welcome Skip <u>Auto Updates</u> Auto Updates O Select patches from directory Installation Location Prerequisite Checks Location: Browse Installation Summary O Search My Oracle Support for Updates Installation Progress Username: Installation Complete Password: Proxy Settings Test Connection Search Help < Back Next > Finish Cancel

#### 3). 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.



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

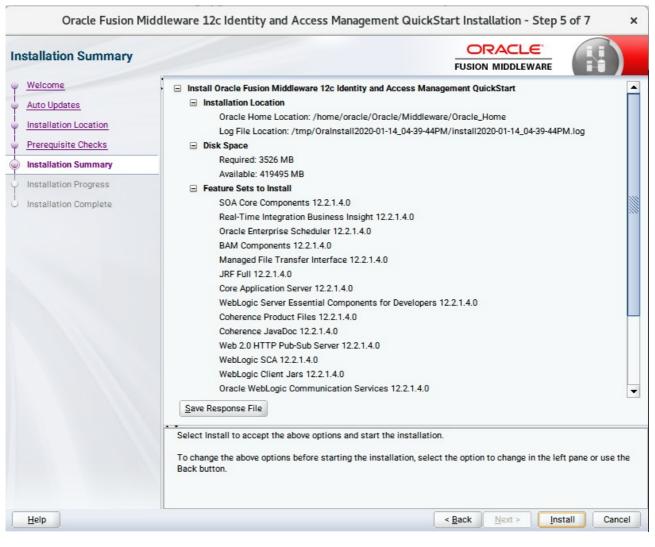
Specify the Oracle home location into which you want to install the product(s). Click Next to continue.

Prerequisites C	necks p	bage appears.		
Oracle Fusion Mid	Idleware 3	12c Identity and Access Manageme	ent QuickStart Installation - Step 4	lof7 ×
isite Checks				
ne odates			100%	
ition Location uisite Checks	<ul> <li>✓</li> <li>✓</li> <li>✓</li> </ul>	Checking operating system certification Checking Java version used to launch the in	nstaller	
Alan Oursenant				

# **Prerequisite Checks** Welcome Auto Updates Installation Location **Prerequisite Checks** Installation Summary Installation Progress Installation Complete Stop Rerun Skip View Successful Tasks View Log Checking operating system certification Expected result: One of oracle-6, oracle-7, redhat-7, redhat-6, SuSE-11, SuSE-12, SuSE-15 Actual Result: SuSE-15-SP1 Check complete. The overall result of this check is: Passed Checking Java version used to launch the installer ÷... Help < Back Next > Finish Cancel

# 5). 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.



### 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.

#### 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 Setup Saving the inventory Post install scripts 1 View Messages View Successful Tasks View Log **Hardware and Software Engineered to Work Together** Help < Back Next > Finish Cancel

#### 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 Prerequisite Checks Installation Summary Installation Progress Installation Complete	Fusion Middleware 12c Identity and Access Management QuickStart         Installation Location         Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home         Log File Components 12:21.4.0         Real-Time Integration Business Insight 12:2.1.4.0         Oracle Enterprise Scheduler 12:2.1.4.0         Managed File Transfer Interface 12:2.1.4.0         JRF Full 12:2.1.4.0         Core Application Server 12:2.1.4.0         WebLogic Server Essential Components for Developers 12:2.1.4.0         Coherence JavaDoc 12:2.1.4.0         WebLogic SCA 12:2.1.4.0         WebLogic Client Jars 12:2.1.4.0         WebLogic Communication Services 12:2.1.4.0         WebLogic Communication Services 12:2.1.4.0 </th			
	<ol> <li>Use the Repository Creation Utility to create the required schemas in a supported database.</li> <li>Use the Configuration Wizard to create a domain using the required domain configuration temple.</li> <li>See the product installation quide for more information.</li> </ol>			
	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 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.

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

Repository Creation Utility - Step 4 of 8 ×						
Repository Creation Utility						
Welcome	<ul> <li>Specify a unique prefix for all schen schemas later.</li> </ul>	nas created in this session, s	o you can easily locate, reference, a	and manage the		
Create Repository						
Database Connection Details	Select existing prefix:					
Select Components	Oreate new prefix:	DEV				
<ul> <li><u>Schema Passwords</u></li> </ul>	0		t start with a number. No special c	haracters.		
Map Tablespaces						
Summary	Component		Schema Owner			
O Completion Summary	Oracle AS Repository Co					
Completion summary	AS Common Schem	Common Infrastructure Services *				
	✓ Common Infrast		DEV_STB DEV_OPSS			
	Oracle Platform		ESS			
			UMS			
	Audit Services	Service	DEV_IAU			
	Audit Services	nend	DEV_IAU_APPEND	1		
	Audit Services Vi		DEV_IAU_VIEWER			
	Metadata Service		DEV_MDS			
	Weblogic Service		DEV_WLS			
	SOA Suite					
	SOA Infrastructu	re	SOAINFRA			
	□ IDM Schemas					
	Oracle Identity M	anager	OIM			
	✓ Oracle Access Ma	anager	DEV_OAM			
	Mandatory component. Mand	atory components cannot be	deselected.			
Help			< <u>B</u> ack <u>N</u> ext > <u>F</u> ini	sh Cancel		

Select the **Create new prefix** radio button and specify a custom prefix(such as DEV). 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.

rome patri.	Fusion Middleware Configuration Wizard	- Page 1 of 8	×
Configuration Type			
Create Domain <u>Templates</u> <u>Administrator Account</u> <u>Domain Mode and JDK</u> <u>Advanced Configuration</u> <u>Configuration Summary</u> Configuration Progress End Of Configuration	What do you want to do?		Browse
Help		< <u>Back</u> <u>Next &gt;</u> <u>F</u> inish	Cancel

Click **Next** to continue.

<ol><li>The Templates screen appear</li></ol>	ars.
---	------

Fusion Middleware Configuration Wizard - Page 2 of 12					
Templates					
Create Domain Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	<ul> <li>              Create Domain Using Product Templates:      </li> <li>Filter Templates:</li></ul>	- wwse			
<u>H</u> elp	< <u>Back</u> <u>Finish</u> Ca	incel			

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

Selecting these templates automatically selects the following as dependencies:

- Oracle Enterprise Manager [em]
- Oracle JRF [oracle\_common]
- WebLogic Coherence Cluster Extension [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 Middlew	are Configuration Wizard -	Page 3 of 12	×			
Application Location							
Create Domain							
Templates							
Application Location							
<u>Administrator Account</u>							
Domain Mode and JDK							
Database Configuration Type							
Component Datasources							
<u>JDBC Test</u>	Domain name:	base_domain					
Advanced Configuration		Domain location: /home/oracle/Oracle/Middleware/Oracle_Home/user_project					
Configuration Summary	Application location:	Oracle/Middleware/Oracle_Home	e/user_projects/applications/base_domain	Browse			
Configuration Progress							
C End Of Configuration							
<u>H</u> elp			< Back Next > Finish	Cancel			

3). The Application Location screen appears.

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

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		Fusion Middleware Configuration Wizard - Page 4 of 12					
A	Administrator Account						
-	Create Domain						
-	Templates						
<b></b>	Application Location						
<b></b>	Administrator Account						
Ý	Domain Mode and JDK						
ų.	Database Configuration Type						
-	Component Datasources						
- <b>b</b>	JDBC Test	Name	weblogic				
$\mathbf{A}$	Advanced Configuration	Password					
ų	Configuration Summary	Confirm Password	••••••				
ų.	Configuration Progress						
ų,	End Of Configuration						
			s the password. Password must cont	ain at least 8 alphanumeric ch	aracters with at least one		
		number or special ch	haracter.				
	Help			< Back Next >	<u>F</u> inish Cancel	7	

# 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 <u>D</u> evelopment         Utilize boot.properties for username and password <u>Production</u> Require the entry of a username and password         JDK <u>O</u> racle HotSpot 1.8.0_221 /home/oracle/ORACL         Other JDK Location:	, and do not poll for applications to deploy.	ie		
Help		< Back Next > Finish Canc	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 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>R</u> CU Data <ul> <li><u>Manual Configuration</u></li> </ul> 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:       hpgen9-01         DBMS/Service:       suse       Port:       1521         Schema Owner:       DEV_STB       Schema Password:          Get RCU Configuration       Cancel       Connection Result Log       Connection Result Log         Connecting to the database serverOK Binding local schema components with retrieved dataOK       Successfully Done.					
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.

	Fusion Middleware Configuration Wizard - Page 7 of 12						×		
	IDBC Component Schema								
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources		Hos DBI Sch	idor: Connection <u>P</u> arameters it Name: MS/Service: wema Owner: cle RAC configuration for o	Connection P S	ort:				
	JDBC Test Advanced Configuration Configuration Summary Configuration Progress		Convert to C	GridLink OC	onvert to RAC multi	ow.			
	End Of Configuration		Component Schema	DBMS/Service	Host Name	Port	Schema Owner	Schema Passw	vora
2	End Of Configuration	닏	LocalSvcTbl Schema	SUSE	hpgen9-01	1521	DEV_STB		_
		ĽĽ.	WLS Schema	SUSE	hpgen9-01	1521	DEV_WLS_RUN		_
			OAM Infrastructure	SUSE	hpgen9-01	1521	DEV_OAM		_
			OPSS Audit Schema	SUSE	hpgen9-01	1521	DEV_IAU_APPEI		_
			OPSS Audit Viewer Sche	SUSE	hpgen9-01	1521	DEV_IAU_VIEWE		
			OPSS Schema	SUSE	hpgen9-01	1521	DEV_OPSS		
		• •							
	<u>H</u> elp				< <u>B</u> a	ack <u>N</u> e	xt > <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.

Fusion Middleware Configuration Wizard - Page 8 of 12							
JDBC Component Schema Test							
Create Domain	<ul> <li>Image: A start of the start of</li></ul>	Status	Component Schema	JDBC Connection URL	_		
Templates		<b>V</b>	LocalSvcTbl Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE			
Application Location		<b>V</b>	WLS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE			
		1	OAM Infrastructure	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE			
Administrator Account		<b>V</b>	OPSS Audit Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE			
Domain Mode and JDK		<b>V</b>	OPSS Audit Viewer Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE			
Database Configuration Type		1	OPSS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE			
<u>Advanced Configuration</u> <u>Configuration Summary</u> Configuration Progress     End Of Configuration			lected Connections Cancel Testing Result Log				
	Component Schema=LocalSvcTbl Schema Driver=oracle.jdbc.OracleDriver URL=jdbc:oracle:thin:@//hpgen9-01:1521/SUSE User=DEV_STB Password=******** SQL Test=SELECT 1 FROM DUAL CFGFWK-64213: Test Successful! CFGFWK-64213: JDBC connection test was successful.						
Help			012: No option coopiend	< 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 Create Domain Create Domain Create Domain Create Domain Create Domain Create Datase Configuration Component Datasources DDBC Test Component Datasources DDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Coherence Clusters Machines Virtual Targets Partitions Configuration Progress Use		Canad
Help	< <u>Back</u> <u>Next</u> <u>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 Middleware Configuration Wizard - Page 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 Administration Server Node Manager Managed Servers Clusters Server Templates Coherence Clusters Machines Virtual Targets Partitions Configuration Summary Configuration Progress	Server Name AdminServer Listen Address 147.2.207.96 Listen Port 7001 Enable SSL SSL Listen Port Server Groups Unspecified The name must not be null or empty and may not contain any : , = * ? % / _cloned.					
Help	< <u>Back</u> <u>Next</u> <u>Finish</u>	Cancel				

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.

Fusion Middleware Configuration Wizard - Page 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         Advanistration Server	Node Manager Type  Per Domain Default Loi  Per Domain Custom Loi  Node Manager Home: Manual Node Manager	cation _re/Oracle_Home/user_proj	ects/domains/base_domain/nodemanaç	ger B <u>r</u> owse		
Node Manager	Node Manager Credentials					
Managed Servers	Username:	weblogic				
<u>Clusters</u> Server Templates	Password: Confirm Password:	······				
<u>Server remplates</u> <u>Coherence Clusters</u> <u>Machines</u> <u>Virtual Targets</u> <u>Partitions</u> <u>Configuration Summary</u> Configuration Progress		ssword. Password must conta	ain at least 8 alphanumeric characters v	vith at least one		
Help			< Back Next > Finish	Cancel		

11). 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 Configuration Wizard - Page 12 of 21							
Managed Servers					6		
Create Domain		ne 🔵 🔀 <u>D</u> elete			🗳 Dis <u>c</u>	ard Changes	
Application Location     Administrator Account	Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Groups	
	oam_server1	147.2.207.96	14100		Disabled	OAM-MGD 🖣	
Domain Mode and JDK     Database Configuration Type	oam_policy_mgr1	147.2.207.96	14150		Disabled	OAM-POLIC	
Administration Server     Node Manager     Managed Servers							
<ul> <li><u>Clusters</u></li> <li><u>Server Templates</u></li> </ul>							
<u>Coherence Clusters</u> Machines							
Virtual Targets							
<u>Partitions</u> <u>Configuration Summary</u>							
	-						
Help			< <u>B</u> ac	k <u>N</u> ext >	- <u>F</u> inish	Cancel	

#### 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.

Clusters					
Create Domain Templates	•	<u>D</u> elete			Dis <u>c</u> ard Changes
Application Location	Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS Por
Administrator Account	oam_cluster_1			0	(
Domain Mode and JDK	oam-policy_cluster_1			0	(
Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters					
Server Templates					
Dynamic Servers					
Dynamic Servers Assign Servers to Clusters					
Dynamic Servers	_				

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.)

14). The Server templates screep appears.

Server Templates	Fusion Middleware Con	figuration Wizard - P	age 14 of 23	
<u>Create Domain</u> <u>Templates</u>	👍 Add 🦉 💥 Delete	]	(	🔊 Dis <u>c</u> ard Changes 🌙
Application Location     Administrator Account	Name	Listen Port	SSL Listen Port	Enable SSL
	oam-server-template	7100	8100	
Domain Mode and JDK     Database Configuration Type	wsm-cache-server-template	7100	8100	
Advanced Configuration     Advinistration Server     Node Manager     Managed Servers     Clusters     Server Templates				
Dynamic Servers				
Assign Servers to Clusters				
Coherence Clusters				
<u>Machines</u> <u>Virtual Targets</u> <u>Partitions</u>	• •			
Help			< Back Next >	Finish Cancel

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**.

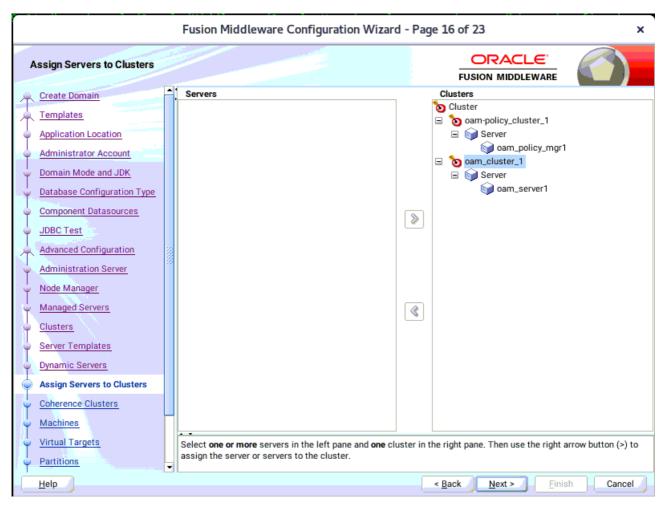
٦

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

.

	Fusion Middlewa	re Config	uration W	/izard - I	Page 15 of 2	23		×
Dynamic Servers			1					
Create Domain	•						🔊 Dis <u>c</u> ar	d 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 Server Groups
<ul> <li>Database Configuration Type</li> </ul>	oam_cluster_1	Disabled	Unspe	Disabled	Disabled			Unspecifi
Component Datasources	oam-policy_cluster_1	Disabled	Unspe	Disabled	Disabled			Unspecifi
Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates								
Dynamic Servers								
<u>Assign Servers to Clusters</u> <u>Coherence Clusters</u>								
Virtual Targets Partitions	• •							
Help					< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

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.

r	Fusion Middleware Configuration Wizard	- Page 17 of 23 ×
Coherence Clusters		
<u>Create Domain</u> <u>Templates</u>	• •	Discard Changes
Application Location	Cluster Name	Cluster Listen Port
Administrator Account	defaultCoherenceCluster	7574
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		
Coherence Clusters		
w Machines	A •	
Virtual Targets		
Partitions	j	
Help		< Back Next > Finish 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 N	Middleware Configu	ration 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   Advanced Servers   Clusters   Server Templates   Dynamic Servers   Coherence Clusters   Coherence Clusters   Machines	Machine	Name	Node Manage Iocalhost	r Listen Address	9	Dis <u>c</u> ard Changes Iger Listen Port 5556
Assign Servers to Machines     Virtual Targets     Help	•			< Back	ext >	sh 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 15 SP1

19). The Assign Servers to Machines screen appears.

r	Page 19 of 24 ×	
Assign Servers to 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 Assign Servers to Clusters Coherence Clusters	Servers	Machine Mac
<u>Machines</u> Assign Servers to Machines <u>Virtual Targets</u>	Select <b>one or more</b> servers in the left pane and <b>one</b> machinassign the server or servers to the machine.	ne in the right pane. Then use the right arrow button (>) to
Help		< Back Next > Finish Cancel

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

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

r

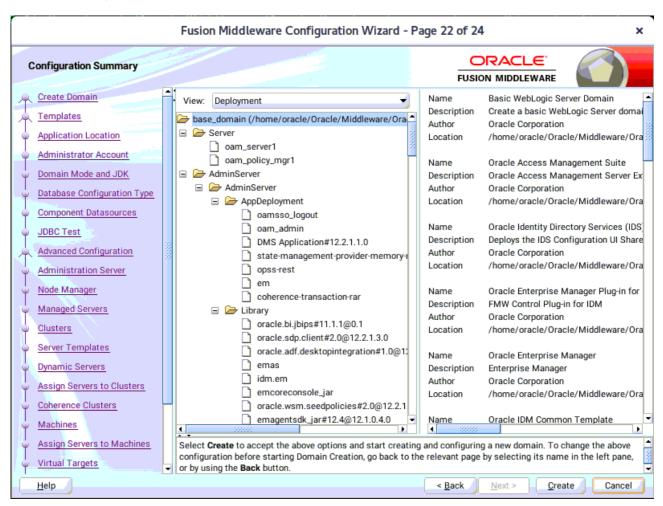
Fusion Middleware Configuration Wizard - Page 20 of 24							×	
Virtual Targets								
Create Domain Templates			elete				Dis <u>c</u> ard	Changes
Application Location     Administrator Account		Name	Target	Host Name		IRI Prefix	Explicit Port	Port Offset
Domain Mode and JDK								
<u>Database Configuration Type</u> <u>Component Datasources</u>								
Advanced Configuration	10000							
Administration Server								
<u>Managed Servers</u> Clusters								
Server Templates								
<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> ext >	<u>F</u> inish	Cancel

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 Wizar	rd - Page 21 of 24 ×
Partitions		
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	Add X Delete	FUSION MIDDLEWARE         Image: Discard Changes         Name
Clusters Server Templates Dynamic Servers Assign Servers to Clusters Coherence Clusters Machines Assign Servers to Machines Virtual Targets	•	< Back Next > Finish 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.





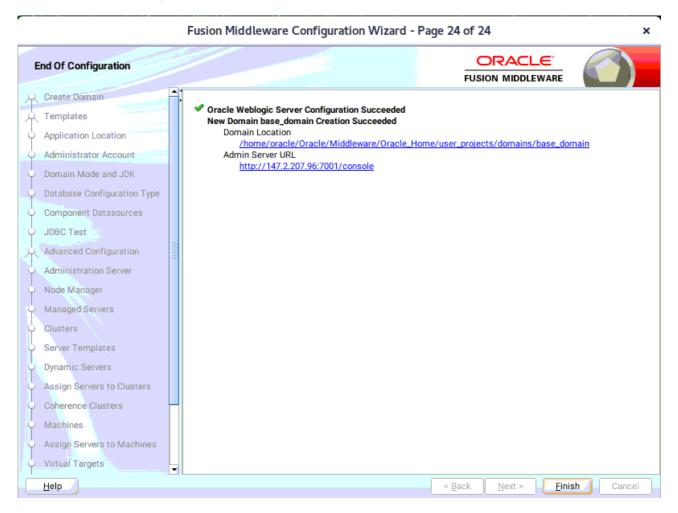
Select Create to accept the above options and start creating and configuring a new domain.

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

-

F	usion Middleware Configuration Wizard - P	age 23 of 24	×
Configuration Progress			
Create Domain			
A Templates	100	9%	
Application Location	Copy Unprocessed Artifacts		
Administrator Account			
Opmain Mode and JDK			
Database Configuration Type			
Component Datasources	Post Processing		
JDBC Test			
Advanced Configuration			
Administration Server			
Node Manager			
Managed Servers			
O Clusters			
Server Templates			
Dynamic Servers			
Assign Servers to Clusters			
Coherence Clusters			
Machines			
Assign Servers to Machines			
V Virtual Targets			
<u>H</u> elp		< <u>Back</u> <u>Next &gt;</u> Fin	ish Cancel

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.

# 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&'

			oracle	e@hpgen9·	-01:/hor	me/oracle/Oracle/Middle	eware/Oracle_Home/user_projects/domains/base_domain/bin	>
File	Edit	View	Search	Terminal	Tabs	Help		
ora	acle@	hpgen9	-01:/hon	ne/oracle/0	Dracle/N	Middleware/Oracl ×	oracle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracl ×	<u>₽</u> -
			01:/ho > nm.		e/Ora	cle/Middleware/Ora	cle_Home/user_projects/domains/base_domain/bin> nohup	/start
1]	15019							
						cle/Middleware/Ora o stdout	.cle_Home/user_projects/domains/base_domain/bin> nohup: :	ignori
							cle_Home/user_projects/domains/base_domain/bin> more nm Middleware/Oracle_Home/user_projects/domains/base_domai	
ana	ger							
							<pre>lib/tools.jar:/home/oracle/Oracle/Middleware/Oracle_Home ddleware/Oracle Home/wlserver//oracle common/modules/</pre>	
							leware/Oracle_Home/wlserver/modules/features/oracle.wls	
							racle_Home/wlserver/:/home/oracle/Oracle/Middleware/O	racle <sub>.</sub>
						acle.wls.common.gr 1.8.0 221/bin/java	اعدین.jar د -server -Xms32m -Xmx200m -Djdk.tls.ephemeralDHKeySize=:	2048
							<pre>le_Home/wlserver//coherence -Dbea.home=/home/oracle/0</pre>	
							y.jps.config=/home/oracle/Oracle/Middleware/Oracle_Home, onfig-jse.xml -Dcommon.components.home=/home/oracle/Orac	
dle	ware/	'Oracl	e_Home	/oracle_	commo	n -Dopss.version=1	2.2.1.3 -Dweblogic.RootDirectory=/home/oracle/Oracle/Mid	ddlew
							java.system.class.loader=com.oracle.classloader.weblogi racle/Middleware/Oracle_Home/wlserver/server/lib/weblog	
							ACLE_SW/Java/jdk1.8.0_221 weblogic.NodeManager -v	re.po
						0> <info> <loading demanager/nodemana</loading </info>	domains file: /home/oracle/Oracle/Middleware/Oracle_Home domains	me∕us
							er.domains> > <setting 12.2.1.4.0;<="" nodemanager="" properties="" th="" to="" version=""><td></td></setting>	
							> <saving '="" home="" nodemanager="" orad<="" p="" properties="" to="" upgraded=""></saving>	cle/0
							ase_domain/nodemanager/nodemanager.properties'>   domains file: /home/oracle/Oracle/Middleware/Oracle_Hom	ne∕us
_pr	oject	s/dom	nains/b	ase_doma	in/no	demanager/nodemana	.ger.domains>	
			6:34:2 seUsed		+08:00	0> <inf0> <loading< th=""><th>identity key store: FileName=kss://system/demoidentity</th><td>, тур</td></loading<></inf0>	identity key store: FileName=kss://system/demoidentity	, тур
an	19, 2	020 6	5:34:29	PM orac			l.config.xml.XmlConfigurationFactory validateFileLocation	
		Conf .q-jse		ome/orac	le/Ora	acle/Middleware/Or	and a line (was a substant of a start from the set of a substant from the set of the set	
an :		y-jse					acle_Home/user_projects/domains/base_domain/config/fmwcd	

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

oracle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/bin	×
File Edit View Search Terminal Tabs Help	
oracle@hpgen9-01:/home/oracle/Or × oracle@hpgen9-01:/home/oracle/Or × oracle@hpgen9-01:/home/oracle/Or ×	₽. ₹
<pre><jan 19,="" 2020="" 6:41:28,676="" gmt+08:00="" pm=""> <warning> <org.glassfish.jersey.internal.errors> <bea-000000> <the wing warnings have been detected: WARNING: A HTTP GET method, public java.lang.Object oracle.security.am.or rest.agent.registration.AgentRegistrationService.getService(java.lang.String,java.lang.String), should nor me any entity. &gt; <jan 19,="" 2020="" 6:41:31,563="" gmt+08:00="" pm=""> <warning> <oracle.adfinternal.view.faces.partition.featureutils> - CES-30130&gt; <ignoring "adfuichoose".="" exists.="" feature="" feature-dependency="" no="" on="" such=""> 2020-01-19 18:41:31.914/243.029 Oracle Coherence GE 12.2.1.4.0 <info> (thread=[STANDBY] ExecuteThread: '3 ueue: 'weblogic.kernel.Default (self-tuning)', member=n/a): Loaded cache configuration from "jar:file:/hou </info></ignoring></oracle.adfinternal.view.faces.partition.featureutils></warning></jan></the </bea-000000></org.glassfish.jersey.internal.errors></warning></jan></pre>	common. t consu <adf_fa ' for q</adf_fa 
<pre>le/Oracle/Middleware/Oracle_Home/oracle_common/modules/oracle.wsm.common/wsm-agent-core.jar!/oracle-wsm-co e-cache-config.xml" 2020-01-19 18:41:31.942/243.057 Oracle Coherence GE 12.2.1.4.0 <info> (thread=[STANDBY] ExecuteThread: '3 ueue: 'weblogic.kernel.Default (self-tuning)', member=n/a): Created cache factory com.tangosol.net.Extens. figurableCacheFactory <jan 19,="" 2020="" 6:41:33,759="" gmt+08:00="" pm=""> <notice> <log management=""> <bea-170027> <the has="" server="" successful.<br="">blished a connection with the Domain level Diagnostic Service.&gt; <jan 19,="" 2020="" 6:41:33,759="" gmt+08:00="" pm=""> <notice> <weblogicserver> <bea-000365> <server al<br="" changed="" state="" to=""><jan 19,="" 2020="" 6:41:33,902="" gmt+08:00="" pm=""> <notice> <weblogicserver> <bea-000365> <server al<="" changed="" pre="" state="" to=""></server></bea-000365></weblogicserver></notice></jan></server></bea-000365></weblogicserver></notice></jan></the></bea-170027></log></notice></jan></info></pre>	' for q ibleCon ly esta DMIN.>
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You know that the administrator server is running when you see the following output:

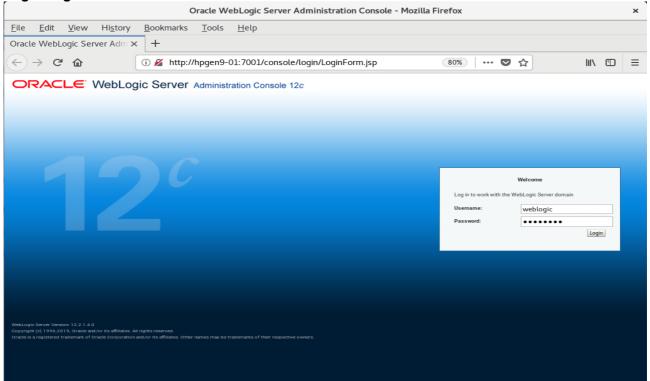
Server state changed to RUNNING.

\_\_\_\_\_

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

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

#### Login Page:



#### Home Page:

	Home Page - base_d	omain - WLS Console - Mozilla Firefox	×
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory	<u>B</u> ookmarks <u>T</u> ools <u>H</u> elp		
Home Page - base_domain - '>	× +		
$\overleftarrow{\leftarrow}$ $\rightarrow$ C' $\widehat{\mathbf{a}}$	(i) http://hpgen9-01:7001/console/c	console.portal?_nfpb=true&	30%) … ♥ ☆                         =
ORACLE WebLogic Server Adm	ninistration Console 12c		Q
Change Center	🏠 Home Log Out Preferences 🔤 Record Help	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	Helpful Tools	General Information	
Release Configuration	Configure applications	Common Administration Task Descriptions	
Domain Structure	Configure GridLink for RAC Data Source	<ul> <li>Read the documentation</li> </ul>	
base_domain	Configure a Dynamic Cluster	<ul> <li>Ask a question on My Oracle Support</li> </ul>	
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		
-Interoperability     -Diagnostics	Demois -	D	Later and Mark
E Diagnostica	Domain  Domain	Resource Group Templates     Resource Group Templates	Interoperability     WTC Servers
	• Domain	Resource Group Templates	Jolt Connection Pools
	Domain Partitions	Resource Groups	
	Domain Partitions	Resource Groups	Diagnostics
	Partition Work Managers		Log Files
How do I		Deployed Resources	Diagnostic Modules
Search the configuration	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     Monitor servers	<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     Interceptors
System Status	Machines	<ul> <li>JMS Modules</li> </ul>	Interceptors
-,	Virtual Hosts	Path Services	Charts and Graphs
Retrieving Health Data	Virtual Targets     Work Managers	Bridges	Monitoring Dashboard
Failed (0)	Concurrent Templates	Data Sources	Montoning Destruction
Critical (0)	Resource Management	Persistent Stores     XML Registries	
Overloaded (0)	Startup And Shutdown Classes	XML Registries     XML Entity Caches	
Warning (0)		<ul> <li>Ame unity oddied</li> </ul>	· · · · · · · · · · · · · · · · · · ·

		Summary of	Servers - base	e_domain - WLS Co	nsole - Mozilla F	rerox				3
<u>File E</u> dit <u>V</u> iew Hi <u>s</u> tory	<u>B</u> ook	marks <u>T</u> ools	<u>H</u> elp							
Summary of Servers - base_o	× +									
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DRACLE WebLogic Server Ad	ministration	Console 12c							9	Q
hange Center	🔬 Hom	e Log Out Preferences 돒	Record Help	Q.			Welcome, webl	ogic Connected to	base_do	mai
iew changes and restarts	Home >	Summary of Servers								
lick the Lock & Edit button to modify, add or	Summary	of Servers								
lelete items in this domain.	Configu	ration Control								
Lock & Edit Release Configuration			- Commenting to the second in the	own Java Virtual Machine (JVM)						
		-			-	on.				
omain Structure Ise_domain	This p	age summarizes each server	r that has been configur	ed in the current WebLogic Serve	r domain.					
-Domain Partitions	52									
-Environment										
Deployments 9-Services	<b>⊳</b> Cust	omize this table								
Deployments 3-Services Security Realms	-	omize this table rs (Filtered - More Columns E	bist)							
Deployments 3-Services Security Realms 3-Interoperability	Server	rs (Filtered - More Columns E		te all the buttons on this page.						
Deployments B-Services Security Realms D-Interoperability	Server	rs (Filtered - More Columns E		te all the buttons on this page.			Showing	g 1 to 3 of 3 Previo	us Next	
Deployments 3-Services Security Realms 3-Interoperability	Server	rs (Filtered - More Columns E the Look & Edit button in the (		te all the buttons on this page.	Machine	State	Showing	g 1 to 3 of 3 Previo	_	
Deployments }-Services Security Realms }-Interoperability	Server	rs (Filtered - More Columns E the Lock & Edit button in the ( / Clone Delete	Change Center to activa		Machine suse_Machine_1	State RUNNING			_	
-Deployments -Services -Security Realms -Interoperability -Diagnostics	Server	rs (Filtered - More Columns E the Look & Edit button in the ( / Clone Delete Name 🇠	Change Center to activa				Health	Listen Por	_	
-Deployments -Services -Security Realms -Interoperability -Diagnostics wdol E Create Managed Servers	Server	rs (Filtered - More Columns E the Lock & Edit button in the ( Clone Delete Name $\approx$ AdminServer(admin)	Change Center to activa Type Configured	Cluster	suse_Machine_1	RUNNING	Health	Listen Por 7001	_	
-Deployments -Services -Security Realms -Interoperability -Diagnostics wdol Create Managed Servers Clone servers	Server Click 1	rs (Filtered - More Columns E the Lock & Edit button in the ( Clone Delete Name & AdminServer(admin) oam_policy_mgr1 oam_server1	Change Center to activa Type Configured Configured	Cluster	suse_Machine_1 suse_Machine_1	RUNNING	Health CK Not reachable Not reachable	Listen Por 7001 14150 14100	rt	
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-Deployments -Services -Security Realms -Interoperability -Diagnostics	Server Click 1	rs (Filtered - More Columns E the Lock & Edit button in the ( Clone Delete Name & AdminServer(admin) oam_policy_mgr1 oam_server1	Change Center to activa Type Configured Configured	Cluster	suse_Machine_1 suse_Machine_1	RUNNING	Health CK Not reachable Not reachable	Listen Por 7001 14150 14100	rt	
-Deployments -Services -Security Realms -Interoperability -Diagnostics w do L Create Managed Servers Clone servers Delete the Administration Server Start and stop servers	Server Click 1	rs (Filtered - More Columns E the Lock & Edit button in the ( Clone Delete Name & AdminServer(admin) oam_policy_mgr1 oam_server1	Change Center to activa Type Configured Configured	Cluster	suse_Machine_1 suse_Machine_1	RUNNING	Health CK Not reachable Not reachable	Listen Por 7001 14150 14100	rt	
Deployments Deployments Services Services Services Diagnostics	Server Click 1	rs (Filtered - More Columns E the Lock & Edit button in the ( Clone Delete Name & AdminServer(admin) oam_policy_mgr1 oam_server1	Change Center to activa Type Configured Configured	Cluster	suse_Machine_1 suse_Machine_1	RUNNING	Health CK Not reachable Not reachable	Listen Por 7001 14150 14100	rt	
DeploymentsServicesServicesServicesServicesServicesServicesServicesServicesServicesServicesDiagnosticsD	Server Click 1	rs (Filtered - More Columns E the Lock & Edit button in the ( Clone Delete Name & AdminServer(admin) oam_policy_mgr1 oam_server1	Change Center to activa Type Configured Configured	Cluster	suse_Machine_1 suse_Machine_1	RUNNING	Health CK Not reachable Not reachable	Listen Por 7001 14150 14100	rt	
Deptyments     Services     Services     Services     Services     Services     Services     Services     Services     Detecte Managed Servers     Clone servers     Detecte Managed Servers     Detecte Administration Server     Start and stop servers     View objects in the JND1 tree  ystem Status     Eleath of Running Servers as of 6.45 PM	Server Click 1	rs (Filtered - More Columns E the Lock & Edit button in the ( Clone Delete Name & AdminServer(admin) oam_policy_mgr1 oam_server1	Change Center to activa Type Configured Configured	Cluster	suse_Machine_1 suse_Machine_1	RUNNING	Health CK Not reachable Not reachable	Listen Por 7001 14150 14100	rt	
Depkyments     Services     Services     Services     Services     Services     Services     Diagnostics      Mow do L      Create Managed Servers     Clone servers     Delete Managed Servers     Delete Managed Servers     Start and stop servers     View objects in the JND1 tree  ystem Status	Server Click 1	rs (Filtered - More Columns E the Lock & Edit button in the ( Clone Delete Name & AdminServer(admin) oam_policy_mgr1 oam_server1	Change Center to activa Type Configured Configured	Cluster	suse_Machine_1 suse_Machine_1	RUNNING	Health CK Not reachable Not reachable	Listen Por 7001 14150 14100	rt	
Deptyments     Services     Services     Services     Services     Services     Services     Services     Services     Delagnostics     Delate Managed Servers     Delate Managed Servers     Delate Managed Servers     Delate Managed Servers     View objects in the JND1 tree     Start and stop servers     View objects in the JND1 tree     Servers     Failed (0)	Server Click 1	rs (Filtered - More Columns E the Lock & Edit button in the ( Clone Delete Name & AdminServer(admin) oam_policy_mgr1 oam_server1	Change Center to activa Type Configured Configured	Cluster	suse_Machine_1 suse_Machine_1	RUNNING	Health CK Not reachable Not reachable	Listen Por 7001 14150 14100	rt	

#### 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_Mac	chine_1 - base_domain - WLS Consol	le - Mozill	la Firef	fox				×
<u>File Edit View History</u>	<u>B</u> ookmarks <u>T</u> ools <u>H</u> elp								
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View changes and restarts	Home >Summary of Servers >Summary of Machin	es >suse_Machine_1							_
Click the Lock & Edit button to modify, add or	Settings for suse_Machine_1								
delete items in this domain.	Configuration Monitoring Notes								
Release Configuration	Node Manager Status Node Manager Log								
Domain Structure base_domain	This page allows you to view current status	information for the Node Manager instance configured for this	s machine.						
Domain Partitions	Status:	Reachable	Curre	ant status	of this Nr	vde Manane	er. More Info		
-Environment -Servers		The section and the section of the s	oun	cint ototoo .	01 1110 140	ac manage			
Clusters	Version:	12.2.1.4.0	Vers	sion string r	eturned f	rom the No	de Manager. More Info		
Coherence Clusters Resource Groups									
Resource Group Templates									
Machines Virtual Hosts									
Virtual Targets									
Work Managers Concurrent Templates									
Resource Management									
How do I 🖂									- 1
Monitor Node Manager status									
Monitor Node Manager logs									- 1
Create and configure machines									
System Status									
Health of Running Servers as of 6:46 PM									
Failed (0)									
Critical (0)									
Overloaded (0)									
Warning (0)									
OK (1)									
WebLogic Server Version: 12.2.1.4.0									-

## 2). Access to Enterprise Manager Console.

#### Login Page:

Sign in - Oracle Enterprise Manager - Mozilla Firefox	×
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Settings for suse_Machine_1 × Sign in - Oracle Enterprise M × +	
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SIGN IN TO ORACLE ENTERPRISE MANAGER	
FUSION MIDDLEWARE CONTROL 12c	
Domain Domain_base_domain	- 1
* User Name weblogic	- 1
* Password ••••••	- 1
Sign in	

## Home Page:

	base_domain (Oracle WebLogic I	Domain)	- Oracle Enter	prise Manager -	Mozilla Firefox		×
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1 Up	Host hpgen9-0	01					
	Listen Port 7001						
Clusters	Servers						
	View 👻 🎽 Create 🛛 💥 Delete	Contro	v E				
2 Down	Name	Status	Cluster	Machine	State	Health	
	AdminServer(admin)	+		suse_Machine_1	Running	ок	
Deployments	oam_policy_mgr1	+	oam-policy_clu	suse_Machine_1	Shutdown	Unknown	
	oam_server1	+	oam_cluster_1	suse_Machine_1	Shutdown	Unknown	
2 Down							
<b>3</b> Up							
	-						
~	Columns Hidden 34					Servers 3 o	13

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

Eile Edit View History Bookmarks Tools Help   isettings for suse_Machine_IX   base_domain (Oracle WebLox +   i http://hpgen9-01:7001/em/faces/as-weblogic-webLogicDomainHi   90% ···· © Information   i base_domain •   i WebLogic Domain •   i Multi II   i Multi III   i Multi IIII   i Multi IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		base_domain (Oracle WebLogic I	Domain	) - Oracle Enter	prise Manager -	Mozilla Firefox		×
<ul> <li>Administration Server</li> <li>1 Down</li>     &lt;</ul>	ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory	<u>B</u> ookmarks <u>T</u> ools <u>H</u> elp						
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WebLogic Domain     Information     Certain functionality on this page is available only when you own the edit session lock. To obtain the lock, click "Lock and Edit" in the Change Center menu.     Administration Server     Name   AdminiServer   Host   hgen9-01   Listen Port   Toown   1 <t< td=""><td></td><td>anager Fusion Middleware Control 12c</td><td></td><td></td><td></td><td>KebLog</td><td>jic Domain 🔻 weblogic 🔻</td><td>-</td></t<>		anager Fusion Middleware Control 12c				KebLog	jic Domain 🔻 weblogic 🔻	-
a Information   Certain functionality on this page is available only when you own the edit session lock. To obtain the lock, click "Lock and Edit" in the Change Center menu.     Servers     Administration Server     Name     Administration Server     Host   hygen9-01   Listen Port   Tooun     Servers     Vew * Create Delete     Control * F     Name   Status   Cluster   Machine   State   Health     AdminiServer(admin)     Suse_Machine_1   Running						_		
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Servers       1 Down       Name       Administration Server         Up       1 Down       Name       Administration Server         I Down       1 Down       Name       Administration Server         Up       1 Down       Name       Create       Control         Servers       View <ul> <li>Create</li> <li>Create</li> <li>Create</li> <li>Cluster</li> </ul> Machine       State       Health         AdminServer(admin)       Image: Server       Suse_Machine_1       Running       OK								×
Administration Server Name Adminiserver Host hpgen9-01 Listen Port 7001 Servers View V Create Delete Control V P Name Adminiserver Host hpgen9-01 Listen Port 7001 Servers View V Create Delete Control V P Name Adminiserver Name Adminiserver Host hpgen9-01 Listen Port 7001 Servers View V Create Delete Control V P Name Adminiserver View V Create Delete Control V P Adminiserver(admin) V OK	Certain functionality on this page i	s available only when you own the edit se	ssion loc	k. To obtain the loc	k, click "Lock and Ed	lit" in the Change Cent	ter menu.	
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1 Down     1     Name     Status     Cluster     Machine     State     Health       AdminServer(admin)     1     suse_Machine_1     Running     OK	Clusters							
AdminServer(admin) 1 Suse_Machine_1 Running OK	1 Down	View View Create Delete	Contro	a v Lγ				
		Name	Status	Cluster	Machine	State	Health	
Deployments oam policy mgr1 e oam-policy clu suse Machine 1 Shutdown Unknown		AdminServer(admin)	+		suse_Machine_1	Running	ок	
Deproyments	Deployments	oam_policy_mgr1	+	oam-policy_clu	suse_Machine_1	Shutdown	Unknown	
oam_server1    oam_cluster_1 suse_Machine_1 Running OK		oam_server1	+	oam_cluster_1	suse_Machine_1	Running	ок	
1 Down 4 Up								
Columns Hidden 34 Servers 3 of 3		Columns Hidden 34					Servers 3	J of 3

http://hpgen9-01:7001/em/faces/as-weblogic-webLogicDomainHome?type=weblogic\_domain&target=/Domain\_base\_domain/base\_domain#

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Clusters 2 Up			v Ev Cluster	Machine	State	Health
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2 up Deployments	View Create Delet	Status	Cluster	suse_Machine_1 suse_Machine_1	Running	ок
2 up	View Create Delet	Status	Cluster	suse_Machine_1 suse_Machine_1	Running	ок

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

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

Or	racle Access Management - Administration Console - Moz	illa Firefox	×
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks	<u>T</u> ools <u>H</u> elp		
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### Oracle Fusion Middleware 12c on SLES 15 SP1

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End of Oracle Access Manager.

*Oracle Identity Manager* 

## 1.Installing Oracle Identity and Access Management 12cPS4 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> conn /as sysdba
Connected. SQL> @/home/oracle/app/product/12.2.0/dbhome_1/javavm/install/initxa.sql
Ster () home, or de ce, app, produce, interno, abhamo_i, java m, instate, interna sqe
PL/SQL procedure successfully completed.
JVMRMACTION
FULL_REMOVAL
PL/SQL procedure successfully completed.
Package created.
Declare hade exceeded
Package body created.
Synonym created.
Grant succeeded.
SQL> [

<pre>SQL&gt; @/home/oracle/app/product/12.2.0/dbhome_1/rdbms/admin/xaview.sql DROP VIEW d\$xatrans\$ *</pre>
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.
View created.
Synonym created.
SQL> [

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> show parameter open_	_cursors;		
NAME		TYPE	VALUE
open_cursors SQL> alter system set ope		integer 1600 scope=sp	
System altered.			
SQL> shutdown immediate; Database closed. Database dismounted. ORACLE instance shut down SQL> startup ORACLE instance started.	1.		
Variable Size Database Buffers	19247928 4362079432 1.5771E+10 47857664	bytes bytes bytes	
NAME		TYPE	VALUE
open_cursors SQL> ]		integer	1600

2). Oracle JDK 1.8.0\_191 and later installed.

1-2. Log in to the target system (SLES 15 SP1 64-bit OS) as a non-admin user. Download the Oracle Identity and Access Management 12cPS4 (12.2.1.4.0) 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\_12.2.1.4.0\_idmqs\_Disk1\_1of2.zip" and "fmw\_12.2.1.4.0\_idmqs\_Disk1\_2of2.zip") files and launch the installation program by running '**java -jar fmw\_12.2.1.4.0\_idmquickstart.jar**'

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

1). Installation Inventory Setup.

Oracle Fusion Midd	lleware 12c Oracle Identity I	Management QuickSta	art Installer. ×
Installation Inven	tory Setup		
Central Inventory Directory Enter the Central inventory d inventory directory if it does	irectory for all your oracle installation not exist.	ns.The installer will create a r	new central
Inventory Directory:	/home/oracle/oralnventory Enter the full path for the directory.		Browse
Operating System Group :	oinstall Specify a group with write permissi	on to the inventory directory	•
pointer file, which is used to	(createCentralInventory.sh) in the inve didentity the location of the central in		-
administrative operations, s	such as patching and upgrade.	<u>0</u> K	Cancel

Specify the Oracle inventory directory and group permissions for that directory. The group must have write permissions to the Oracle inventory directory, then click **OK** to continue.

## 2). Welcome page appears.

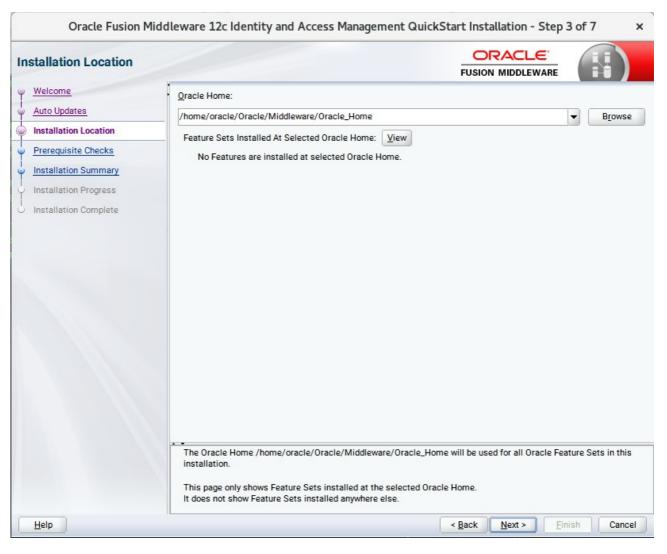
	elcome	
)	Welcome	
,	Auto Updates	Welcome to the Oracle Fusion Middleware 12c (12.2.1.4.0) IDM Suite Quick Start Installer.
	Installation Location	Use this installer to create a new Oracle home that contains everything you need to manage privileges and protect applications with the Oracle IDM Suite software for production or evaluation.
	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 Help button.
	Installation Complete	
		Copyright (c) 2010, 2019, Oracle and/or its affiliates. All rights reserved.

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

## Oracle Fusion Middleware 12c Identity and Access Management QuickStart Installation - Step 2 of 7 × ORACLE **Auto Updates** FUSION MIDDLEWARE Welcome Skip <u>Auto Updates</u> Auto Updates O Select patches from directory Installation Location Prerequisite Checks Location: Browse Installation Summary O Search My Oracle Support for Updates Installation Progress Username: Installation Complete Password: Proxy Settings Test Connection Search Help < Back Next > Finish Cancel

#### 3). 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.



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

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

Prerequisites Checks page appears.						
Oracle Fusion Middleware 12c Identity and	Access Management QuickStart Installation - Step 4 of 7 ×					
iisite Checks						
<u>ne</u>						

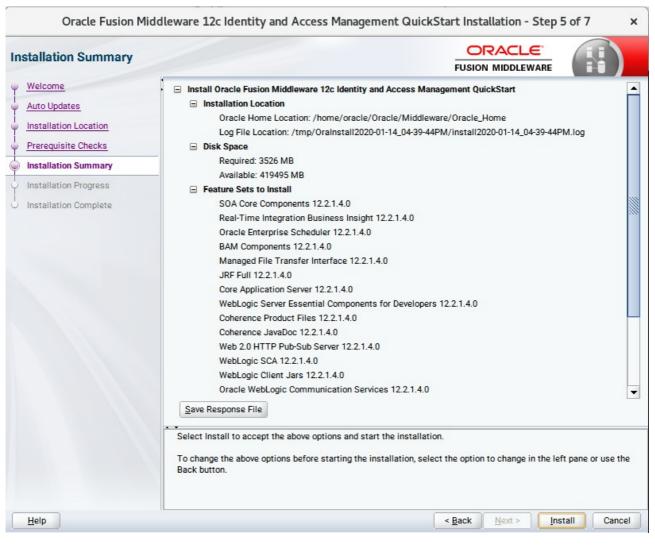
Oracle Fusion Middleware 12c on SLES 15 SP1

#### 5). The Prerequisites Che

**Prerequisite Checks** 

	*	FUSION MIDDLEWARE	
velcome uto Updates		100%	
stallation Location	Check	king operating system certification	
rerequisite Checks	Check	king Java version used to launch the installer	
stallation Summary			
stallation Progress			
stallation Complete			
	Stop Rerur	n Skip View Successful <u>T</u> asks	View Log
	Checking o	operating system certification	
		d result: One of oracle-6, oracle-7, redhat-7, redhat-6, SuSE-11, SuSE-12, SuSE-15 esult: SuSE-15-SP1	
	Check co	omplete. The overall result of this check is: Passed	
	⊞… ✓ Checking J	Java version used to launch the installer	
		Deale Market	
lelp		< <u>Back</u> <u>N</u> ext >	Einish Cance

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.



### 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.

#### 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 Copy Installation Summary Generating Libraries Installation Progress Performing String Substitutions Installation Complete Linking Setup Saving the inventory Post install scripts 1 View Messages View Successful Tasks View Log **Hardware and Software Engineered to Work Together** Help < Back Next > Finish Cancel

#### 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 Prerequisite Checks Installation Summary Installation Progress Installation Complete	<ul> <li>Install Oracle Fusion Middleware 12c Identity and Access Management QuickStart</li> <li>Installation Location         <ul> <li>Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home</li> <li>Log File Location: /tmp/Oralnstall2020-01-14_04-39-44PM/install2020-01-14_04-39-44PM</li> </ul> </li> <li>Feature Sets Installed Successfully         <ul> <li>SOA Core Components 12.2.1.4.0</li> <li>Real-Time Integration Business Insight 12.2.1.4.0</li> <li>Oracle Enterprise Scheduler 12.2.1.4.0</li> <li>BAM Components 12.2.1.4.0</li> <li>Managed File Transfer Interface 12.2.1.4.0</li> <li>JRF Full 12.2.1.4.0</li> <li>Core Application Server 12.2.1.4.0</li> <li>Coherence Product Files 12.2.1.4.0</li> <li>Coherence JavaDoc 12.2.1.4.0</li> <li>WebLogic SCA 12.2.1.4.0</li> <li>WebLogic Client Jars 12.2.1.4.0</li> <li>WebLogic Client Jars 12.2.1.4.0</li> <li>Next Step(s):</li> </ul> </li> </ul>	l.log
	<ol> <li>Use the Repository Creation Utility to create the required schemas in a supported database.</li> <li>Use the Configuration Wizard to create a domain using the required domain configuration temple.</li> <li>See the product installation quide for more information.</li> </ol>	
	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.

			FUSION MIDDLEWARE	
Welcome	Specify a unique prefix for all sch schemas later.	emas created in this session, so	you can easily locate, reference, and manag	ge ti
Create Descritera	achemias later.			
Create Repository				
Database Connection Details	Select existing prefix:			
Select Components	Create new prefix:	DEV		
Schema Passwords	Create new prenx.	L= -:		
		Alpha numeric only. Cannot	start with a number. No special characters.	
Map Tablespaces				
Summary	Component		Schema Owner	
	Oracle AS Repository			
Completion Summary	B AS Common Sche			
		structure Services *	DEV_STB	
		n Security Services	DEV_OPSS	
	Oracle Enterpr		ESS	
	User Messagin		DEV_UMS	
	Audit Services		DEV_IAU	
	Audit Services		DEV_IAU_APPEND	
	Audit Services		DEV_IAU_VIEWER	
	Metadata Serv		DEV_MDS	
	Weblogic Serv	ices *	DEV_WLS	
	SOA Suite			
	SOA Infrastruc	ture	DEV_SOAINFRA	
	IDM Schemas			
	✓ Oracle Identity		DEV_OIM	
	Oracle Access	Manager	OAM	

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 Middleware Configuration Wizard	- Page 1 of 8	×
Configuration Type			
🙊 Create Domain	1		
Lemplates			
Administrator Account			
Domain Mode and JDK			
Advanced Configuration			
Configuration Summary	What do you want to do?		
Configuration Progress			
C End Of Configuration	Create a new domain		
	O Update an existing domain		
	Domain Location: racle/Oracle/Middleware/Oracle_H	ome/user_projects/domains/base_domain	B <u>r</u> owse
	Create a new domain.		
Help		< Back Next > Finish	Cancel

Click Next to continue.

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

Fusion Middleware Configuration Wizard - Page 2 of 13			×
Templates			
Create Domain  Femplates  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	Create Domain Using Product Templates:   Filter Templates: Type here   Include all gelected templates   Available Templates   Basic WebLogic Server Domain [wlserver] *   Insight [soa]   Oracle B2B Reference Configuration [soa]   Oracle B2B Reference Configuration [soa]   Oracle B2B Client [soa]   Oracle Identity Manager [idm]   Oracle Enterprise Manager [em]   Oracle Enterprise Manager Restricted JRF [em]   Oracle Enterprise Scheduler Service Basic [oracle   Oracle Enterprise Scheduler Service Basic [oracle   Oracle Liter Vision Concident Decident Provide Middleward	_common] 1 re/Oracle_Home Brow	
Help		< <u>Back Next &gt; Finish</u> Can	cel

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

Selecting this template automatically selects the following as dependencies:

- Oracle Enterprise Manager [em]
- Oracle JRF [oracle\_common]
- Oracle WSM Policy Manager [oracle\_common]
- WebLogic Coherence Cluster Extension [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.

r

Fusion Middleware Configuration Wizard - Page 3 of 15				
High Availability Options				
Create Domain				
Examplates				
High Availability Options				
Application Location     Administrator Account	Enable Automatic Service Migration			
Domain Mode and JDK	O D <u>a</u> tabase Leasing			
Database Configuration Type	○ <u>C</u> onsensus Leasing			
Component Datasources	JTA Transaction Log Persistence			
UDBC Test	Default Persistent Store			
Credentials	◯ JDBC <u>T</u> Log Store			
<u>Keystore</u> <u>Advanced Configuration</u>	JMS Server Persistence			
Configuration Summary	● JMS File Store			
Configuration Progress	◯ J <u>M</u> S JDBC Store			
End Of Configuration				
	Only JMS Server persistence can be configured for Dynamic Clusters using this configuration wizard. Service Migration and JTA Transaction Logs Persistence cannot be configured for Dynamic Clusters using the configuration wizard, they need to be configured manually.			
Help	< Back Next > Finish Cancel			

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

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

Fusion Middleware Configuration Wizard - Page 4 of 15					×	
Application Location					i (	
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/Oracle/Middleware Oracle/Middleware/Oracle_Home	/Oracle_Home/u	user_projects/doma	ins	Browse
Help			< <u>B</u> ack	<u>N</u> ext >	inish	Cancel

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

-	Fusion Middleware Configuration Wizard - Page 5 of 15 ×						•
А	dministrator Account						
$\mathcal{A}$	Create Domain						
$\mathbf{A}$	Templates						
	High Availability Options						
÷	Application Location						
<b></b>	Administrator Account						
÷.	Domain Mode and JDK						
- <b> </b>	Database Configuration Type						
	Component Datasources	Name	weblogic				
· 🔶	JDBC Test	Password					
4	Credentials	Confirm Password					
÷	Keystore						
$\mathbf{A}$	Advanced Configuration						
ų	Configuration Summary						
÷.	Configuration Progress						
6	End Of Configuration						
			s the password. Password must conta	ain at least 8 alph	anumeric characters	with at least one	
		number or special ch	laracter.				
	Help			< <u>B</u> ack	<u>N</u> ext >Einis	h Cancel	7

#### 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.

r	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 <u>D</u> evelopment         Utilize boot.properties for username and password <u>Production</u> Require the entry of a username and password <u>JDK</u> <u>O</u> racle HotSpot 1.8.0_221 /home/oracle/ORACL             Other JDK Location:	l, and do not poll for applications to deploy.			
Help		< Back Next > Einish Cancel			

## 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	Туре	screen	appears.
-----	-----	----------	---------------	------	--------	----------

r	Fusion Middleware Configuration Wizard - Page 7 of 15 ×				
Database Configuration Type	ORACLE FUSION MIDDLEWARE				
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	Specify AutoConfiguration Options Using:            • <u>R</u> CU Data <ul> <li><u>Manual Configuration</u></li> </ul> Enter the database connection details using the schema credentials corresponding to Common Services component in the Repository Creation Utility. The Wizard uses this connection to autit the datasources required for components in this domain.         Vendor:       Oracle       Driver: *Oracle's Driver (Thin) for Service connection Driver: *Oracle's Driver (Thin) for Service connection Driver:            • Connection Parameters         • Connection URL String         Host Name:         hpgen9-01         DBMS/Service:         suse         Port:         1521         Schema Owner:         DEV_STB         Schema Password:	omatically configure			
Help	< Back Next > Ein	ish 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.

#### Oracle Fusion Middleware 12c on SLES 15 SP1

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

r	Fusion Middleware Co	onfiguration	Wizard - Page 8	8 of 15		×		
JDBC Component Schema								
Create Domain Templates High Availability Options Application Location	Vendor: Connection <u>P</u> arameters Host Name:		Vriver:			<b>V</b>		
Administrator Account     Domain Mode and JDK     Database Configuration Type     Component Datasources     JDBC Test	DBMS/Service: Schema Owner: Oracle RAC configuration for o	component sche	Port: Gchema Password: mas: Convert to RAC multi	data sourc	e 🔿 Don't co	nvert		
Credentials Keystore	Edits to the data above will af	fect all checked	rows in the table be Host Name	low. Port	Schema Owner	Schema Password		
Advanced Configuration	OIM Schema	SUSE	hpgen9-01	1521	DEV_OIM			
	SOA EDN (XA)	SUSE	hpgen9-01	1521	DEV_SOAINFR4			
<ul> <li><u>Configuration Summary</u></li> </ul>	SOA EDN (Local)	SUSE	hpgen9-01	1521	DEV_SOAINFR4			
O Configuration Progress	LocalSvcTbl Schema	SUSE	hpgen9-01	1521	DEV_STB			
O End Of Configuration	User Messaging Service	SUSE	hpgen9-01	1521	DEV_UMS			
	SOA (XA)	SUSE	hpgen9-01	1521	DEV_SOAINFR4			
	SOA (Local)	SUSE	hpgen9-01	1521	DEV_SOAINFR4			
	WLS Schema         SUSE         hpgen9-01         1521         DEV_WLS_RUN							
Help			< B	ack N	ext > Fin	sh Cancel		

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

Fusion Middleware Configuration Wizard - Page 9 of 15								
JDBC Component Schema Test								
Create Domain	<ul> <li>Image: A set of the set of the</li></ul>	Status	Component Schema	JDBC Connection URL				
🚊 Templates		<b>V</b>	OIM Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE	1			
High Availability Options		<b>V</b>	SOA EDN (XA)	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE				
		1	SOA EDN (Local)	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE				
<u>Application Location</u>		<b>a</b>	LocalSvcTbl Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE	2000			
Administrator Account		<b>a</b>	User Messaging Service	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE	ŝ			
Domain Mode and JDK		<b>a</b>	SOA (XA)	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE				
Database Configuration Type		<b>a</b>	SOA (Local)	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE				
Component Datasources		<b>V</b>	WLS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE				
		<b>V</b>	OIM MDS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE				
JDBC Test		<b>a</b>	OWSM MDS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE	٦.			
<ul> <li><u>Credentials</u></li> <li><u>Keystore</u></li> <li><u>Advanced Configuration</u></li> <li><u>Configuration Summary</u></li> <li>Configuration Progress</li> <li>End Of Configuration</li> </ul>	Com Drive URL= User= Pass SQL CFGF CFGF	nection ponent : jdbc:ori- jdbc:ori- DEV_O word=* Test=si WK-642	Cancel Testing Result Log Schema=OIM Schema e.jdbc.OracleDriver acle:thin:@//hpgen9-01:1521/SUSE IM ******** elect 1 from schema_version_registry where owner=(s 213: Test Successful! 213: JDBC connection test was successful. 213: No action required 223: Source State	elect user from dual) and mr_type='OIM' and v	vers			
<u>H</u> elp			< [	Back Next > Finish Canc	el			

## 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.

r	Fusion Middleware C	Configuration Wizard -	Page 10 of 15	×
Credentials				
Create Domain Templates	• Add X Dele	te		🔊 Dis <u>c</u> ard Changes
High Availability Options	Key Name	Username	Password	Store Name
Application Location	keystore	keystore		oim
<ul> <li>Administrator Account</li> </ul>	OIMSchemaPassword	DEV_OIM		oim
Domain Mode and JDK	sysadmin	xelsysadm		oim
and the second se	WeblogicAdminKey	weblogic		oim
Database Configuration Type				
Component Datasources				
UDBC Test				
Credentials				
Keystore				
Advanced Configuration				
Configuration Summary				
Configuration Progress				
O End Of Configuration				
Help	L		< Back Next >	Einish Cancel

#### 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 - F	Page 11 of 15			×
Keystore						
Create Domain Templates	Store Key Name	ums/apns		<b>_</b>	Dis <u>c</u> ar	d Changes
High Availability Options     Application Location	Alias		Trusted Certifica	te		
Administrator Account Domain Mode and JDK Database Configuration Type						
<u>Database Configuration Type</u> <u>Component Datasources</u> JDBC Test						
Credentials						
Advanced Configuration	Alias	Private Key	Password	Identi	ty Certifi	cate
Configuration Summary     Configuration Progress     End Of Configuration						
Help			< <u>B</u> ack	<u>N</u> ext >Ei	nish	Cancel

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

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

Fusion Middleware Configuration Wizard - Page 12 of 24 ×								
Advanced Configuration								
	<ul> <li>Administration Server Modify Settings</li> <li>Node Manager Configure Node Manager</li> <li>Topology Add, Delete or Modify Settings for Managed Servers,</li> <li>Dgmain Frontend Host Capture Configure Domain Frontend Host</li> <li>Deployments and Services Target to Servers or Clusters</li> <li>File Store Modify Settings</li> </ul>							
Help		< Back Next > Finish	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   Managed Servers   Clusters   Server Templates   Coherence Clusters   Machines   Virtual Targets	Server Name Listen Address Listen Port Enable SSL SSL Listen Port Server Groups	AdminServer  147.2.207.96  7001  Unspecified  ot be null or empty and	d may not contain ar					
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 Configuration Wizard - Page 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   Administration Server   Node Manager   Managed Servers   Clusters   Server Templates   Coherence Clusters   Machines   Virtual Targets	Manual Node Manager Node Manager Credentials Username: Password: Confirm Password: Must be the same as the pas number or special character.	cation  re/Oracle_Home/user_proje  Setup  weblogic	acts/domains/base_domain/nodemanag					
Help			< Back Next > Finish	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.

3

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

	Fusion Middleware	Configuration Wizar	d - Page 15	of 24		×
Managed Servers					6	
<u>Create Domain</u> <u>Templates</u>		one 🖉 🔀 <u>D</u> elete			🗳 Dis <u>c</u>	ard Changes
High Availability Options     Application Location	Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Groups
	oim_server1	147.2.207.96	14000		Disabled	OIM-MGD-S
Administrator Account     Domain Mode and JDK	soa_server1	147.2.207.96	7003		Disabled	SOA-MGD 🔻
Clusters						
<u>Server Templates</u> <u>Coherence Clusters</u>						
<ul> <li><u>Machines</u></li> <li><u>Virtual Targets</u></li> </ul>						
Help			< <u>B</u> ac	k <u>N</u> ext >	- <u>F</u> inish	Cancel

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 Middlewa	re Configuration V	Vizard - Page 16	of 26	×
Clusters					
<u>Create Domain</u> <u>Templates</u>		Delete			Dis <u>c</u> ard Changes
High Availability Options	Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS Port
Application Location	oim_cluster_1			0	0
<ul> <li>Administrator Account</li> </ul>	soa_cluster_1			0	0
Domain Mode and JDK					
Database Configuration Type					
Component Datasources					
JDBC Test					
Credentials					
Veystore					
Advanced Configuration					
Administration Server					
Vode Manager					
Managed Servers					
Clusters	-				
Server Templates					
Dynamic Servers					
Assign Servers to Clusters	- •				
Coherence Clusters					
Help			< <u>B</u> ac	k <u>N</u> ext > <u>F</u> in	nish 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 Configuration Wizard - Page 17 of 26 ×									
Server Templates									
Create Domain Templates	Add X Delete			🔊 Dis <u>c</u> ard Changes 🌙					
High Availability Options     Application Location	Name	Listen Port	SSL Listen Port	Enable SSL					
	soa-server-template	7100	8100						
Administrator Account	oim-server-template	7100	8100						
Domain Mode and JDK	wsm-cache-server-template	7100	8100						
Database Configuration Type	wsmpm-server-template	7100	8100						
Component Datasources									
JDBC Test									
Credentials									
V Keystore									
Advanced Configuration									
<u> </u>									
Administration Server									
Node Manager									
Managed Servers									
Clusters									
Server Templates									
Dynamic Servers									
Assign Servers to Clusters	· ·								
Coherence Clusters	-								
Help			< Back Next >	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**.

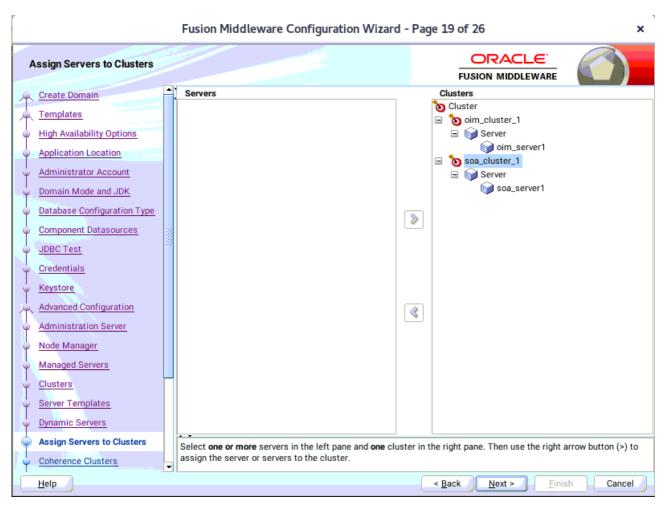
٦

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

r

Fusion Middleware Configuration Wizard - Page 18 of 26						×		
Dynamic Servers								
Create Domain							Dis <u>c</u> ar	d 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 Server Groups
Domain Mode and JDK	oim_cluster_	Disabled	Unspecifi	Disabled	Disabled			Unspecifi*
Database Configuration Type	soa_cluster_	Disabled	Unspecifi	Disabled	Disabled			Unspecifi
Credentials     Keystore     Advanced Configuration     Administration Server     Node Manager     Managed Servers								
<u>Clusters</u> <u>Server Templates</u>								
Dynamic Servers								
<u>Assign Servers to Clusters</u> <u>Coherence Clusters</u>	* *							
· · · · · · · · · · · · · · · · · · ·								

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.



#### 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.

Fusion Middleware Configuration Wizard - Page 20 of 26								
Coherence Clusters								
Create Domain Templates				Dis <u>c</u>	ard Changes			
High Availability Options		Cluster Name		Cluster Listen Port				
Application Location		defaultCoherenceCluster	7574					
<ul> <li>Administrator Account</li> </ul>								
Domain Mode and JDK								
Database Configuration Type								
Component Datasources								
JDBC Test	100							
Credentials								
Keystore								
Advanced Configuration								
Administration Server								
Node Manager								
Managed Servers								
<ul> <li><u>Clusters</u></li> </ul>	Π							
Server Templates								
Dynamic Servers								
Assign Servers to Clusters								
Coherence Clusters	l							
Help			< <u>B</u> ack <u>N</u>	lext > Einish	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.

	Fusion Middleware Configura	ation Wizard -	Page 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 Assign Servers to Clusters	Machine Unix Machine	Node Manage	r Listen Address	<b>6</b>	bis <u>c</u> ard Changes ger Listen Port 5556
Coherence Clusters			< <u>B</u> ack <u>N</u> e	ext >	h Cancel

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

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

r	Fusion Midd	lleware Configuration W	/izard - Pag	ge 22 of 27	×
Assign Servers to 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 Assign Servers to Clusters	Servers			Machine Machine Suse_Machine_1 Machine AdminServer Soim_server1 Soa_server1 Soa_server1 Soa_server1	
Coherence Clusters		ore servers in the left pane and er or servers to the machine.	one machine ir	n the right pane. Then use the rig	nt arrow button (>) to
Help				< <u>B</u> ack <u>N</u> ext > <u>F</u> in	ish Cancel

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.

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

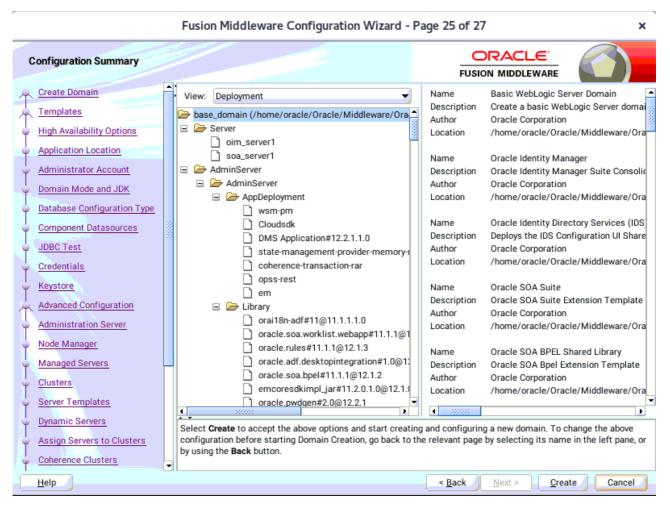
r	Fusion Middleware	e Configuration V	Vizard - Page	23 of 27		×
Virtual Targets						
<u>Create Domain</u> <u>Templates</u>	Add 🗙 De	elete			Dis <u>c</u> ard	Changes
High Availability Options     Application Location	Name	Target	Host Names	URI Prefix	Explicit Port	Port Offset
<u>Administrator Account</u>						
<u>Domain Mode and JDK</u> <u>Database Configuration Type</u>						
<u>Component Datasources</u> <u>JDBC Test</u>						
<u>Credentials</u> <u>Keystore</u>						
Advanced Configuration						
Node Manager						
<u>Managed Servers</u> <u>Clusters</u>						
Server Templates     Dynamic Servers						
Assign Servers to Clusters     Coherence Clusters						
<u>H</u> elp			<	Back Next >	<u>F</u> inish	Cancel

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.

r		Fusion Middleware Configuration Wizard - Pa	age 24 of	f 27	×
Partitions			F		
Create Domain Templates		Add Delete		<b>\$</b>	Dis <u>c</u> ard Changes 🥖
High Availability Options     Application Location		Nam	ne		
Administrator Account     Domain Mode and JDK					
<u>Database Configuration Type</u> <u>Component Datasources</u>	(000)				
<ul> <li><u>JDBC Test</u></li> <li><u>Credentials</u></li> </ul>					
<u>Keystore</u> <u>Advanced Configuration</u>					
<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	-	· •			
Help	-		< <u>B</u> ack	<u>N</u> ext > <u>Finis</u>	sh 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.



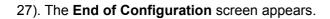
#### 25). The Configuration Summary screen appears.

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

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

F	Fusion Middleware Configuration Wiza	rd - Pa	ge 26 of 2	7		×
Configuration Progress						
🕂 Create Domain						
A Templates		100%				
High Availability Options	Copy Unprocessed Artifacts					
<ul> <li>Application Location</li> </ul>	OPSS Processing					
	OWSM Processing     Security Processing					
O Domain Mode and JDK	Artifacts Generation					
	String Substitution     Post Processing					
Component Datasources	· · · · · · · · · · · · · · · · · · ·					
O JDBC Test						
Credentials						
V Keystore						
Advanced Configuration						
Administration Server						
O Node Manager						
Managed Servers						
û Clusters						
<ul> <li>Server Templates</li> </ul>						
Upnamic Servers	*					
Assign Servers to Clusters						
Coherence Clusters						
Help			< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

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	d - Page 27 of 27	×
End Of Configuration			
<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> <li>Keystore</li> <li>Advanced Configuration</li> <li>Administration Server</li> <li>Node Manager</li> <li>Managed Servers</li> <li>Clusters</li> <li>Server Templates</li> <li>Dynamic Servers to Clusters</li> <li>Coherence Clusters</li> </ul>	Oracle Weblogic Server Configuration Succeeded New Domain base_domain Creation Succeeded Domain Location /home/oracle/Oracle/Middleware/Oracl Admin Server URL http://147.2.207.96:7001/console	d ie_Home/user_projects/domains/base_dom	ain
Help		< <u>B</u> ack <u>N</u> ext > <u>F</u> inisl	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.

#### 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

				ora	cle@hp	gen9-01:/home/oracle/0	Oracle/Middleware/Oracl	e_Home/idm/server/bin	×
File	Edit	View	Search	Terminal	Tabs	Help			
		15		e/oracle/C		0,10	/home/oracle/Or ×	oracle@hpgen9-01:/home/oracle/Or ×	<b>≞</b> •
le/M orac _SW/ orac e_Ho ****	iddle le@hp Java/ le@hp me/us	ware/ gen9- jdk1. gen9- er_pr	Oracle_ 01:/hom 8.0_22: 01:/hom ojects,	_Home/us me/oracl 1/ me/oracl /domains.	er_pro e/Orac e/Orac /base_ *****	ojects/domains/bas cle/Middleware/Ora cle/Middleware/Ora domain/bin/setDom	e_domain/ .cle_Home/idm/serve .cle_Home/idm/serve	r/bin> export DOMAIN_HOME=/home/orac r/bin> export JAVA_HOME=/home/orac r/bin> /home/oracle/Oracle/Middlewa	le/ORACLE
* * S * * * *	ettin	g up ****	SOA spe	ecific e	nviror *****	nment			
EXTR	A_JAV	A_PRO	PERTIES	S= -da:o	rg.apa	ache.xmlbeans			
							acle_Home/wlserver. linux/x86_64/oci920	/server/native/linux/x86_64:/home/o 0_8	oracle/Or
• ****				* * * * * * *	* * * * *				
** E ****	nd S0	A spe	cific (	environm	ent se	etup **************			
								r/bin> chmod +x offlineConfigManage r/bin> ./offlineConfigManager.sh	er.sh

<pre>E Edit View Search Terminal Tabs Help racle@hpgen9-01:/home/oracle/O × oracle@hpgen9-01:/home/oracle/Or × oracle@hpgen9-01:/home/oracle/Or × Setting up SOA specific environment RA_JAVA_PROPERTIES= -da:org.apache.xmlbeans RA_JAVA_PROPERTIES= -da:org.apache.xmlbeans LIBRARY_PATH=::/home/oracle/Oracle/Middleware/Oracle_Home/wlserver/server/native/linux/x86_64:/home/oracle/e/Middleware/Oracle_Home/wlserver/server/native/linux/x86_64/oci920_8  End SOA specific environment setup  cle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin&gt; chmod +x offlineConfigManager.sh cle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin&gt; ./offlineConfigManager.sh cle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin&gt; ./offlineConfigManager.sh cle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin&gt; ./offlineConfigManager.sh cle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin&gt; ./offlineConfigManager.sh cle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin&gt; ./offlineConfigManager.sh cle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin&gt; ./offlineConfigManager.sh cle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin&gt; ./offlineConfigManager.sh cle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/loginmodule/wls/ to /home/oracle/Oracle/Middleware/Oracle_Home/idm/server/loginmodule/wls/ to /home/oracle/Oracle/Oracle/Middleware/Oracle_Home/idm/server/loginmodule/wls/ to /home/oracle/Oracle/Middleware/Oracle_Home/idm/server/loginmodule/wls/ to /home/oracle/Oracle/Middleware/Oracle_Home/idm/server/loginmodule/wls/ to /home/oracle/Oracle/Middleware/Oracle_Home/idm/server/loginmodule/wls/schema/* to /home/oracle/Oracle/Mware/Oracle_Home/idm/server/loginmodule/wls/schema/* to /home/oracle/Oracle/Mware/Oracle_Home/idm/server/loginmodule/wls/schema/* to /home/oracle/Oracle/Mware/Oracle_Home/idm/server/loginmodule/wls/schema/* to /home/oracle/Oracle/Mware/Ora</pre>				ora	cle@hpg	gen9-01:/home/or	acte/Oracte/Mic	lateware/oraca	-Home/Idm/server/Din			
Setting up SOA specific environment RA_JAVA_PROPERTIES= -da:org.apache.xmlbeans LIBRARY_PATH=::/home/oracle/Oracle/Middleware/Oracle_Home/wlserver/server/native/linux/x86_64:/home/oracle/ e/Middleware/Oracle_Home/wlserver/server/native/linux/x86_64/oci920_8  End SOA specific environment setup  cle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin> chmod +x offlineConfigManager.sh cle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin> ./offlineConfigManager.sh cle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin> ./offlineConfigManager.sh setup to the term of term of the term of term o	File E	dit View	Search	Terminal	Tabs	Help						
<pre>ktristion RA_JAVA_PROPERTIES= -da:org.apache.xmlbeans LIBRARY_PATH=::/home/oracle/Oracle/Middleware/Oracle_Home/wlserver/server/native/linux/x86_64:/home/oracle/ e/Middleware/Oracle_Home/wlserver/server/native/linux/x86_64/oci920_8  time End SOA specific environment setup time time time time time time time time</pre>	oracle	e@hpgen	9-01:/hom	e/oracle/0	D ×	oracle@hpger	n9-01:/home/ora	acle/Or ×	oracle@hpgen9-01:/ho	me/oracle/Or ×	Æ	
LIBRARY_PATH=::/home/oracle/Oracle/Middleware/Oracle_Home/wlserver/server/native/linux/x86_64:/home/oracle/ e/Middleware/Oracle_Home/wlserver/server/native/linux/x86_64/oci920_8	Set	ting up	SOA sp	ecific e	nviron	ment	*****					
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		e to we	bLogic	Server A	dminis	tration Scrip						
e help() for help on available commands	/pe h	elp() f	or help	on avai	lable	commands	oting Shell	le∕Middlewa	re/Oracle Home/use	r projects/doma	ins/ha	
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copying mbean files are successful <Jan 17, 2020 4:32:37,211 PM GMT+08:00> <Info> <oracle.iam.OIMPostConfigManager> <BEA-0000000> <Exiting copyMbean Files() method of OIMConfigManager class>

Jan 17, 2020 4:32:37 PM oracle.iam.	DIMPostConfigManager.config.OIMConfigManager copyMbeanFiles
INFO: Exiting copyMbeanFiles() method	od of OIMConfigManager class
oracle@hpgen9-01:/home/oracle/Oracle	e/Middleware/Oracle_Home/idm/server/bin>

### 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&'

			oracle	@hpgen9	-01:/hon	ne/oracle/Ora	acle/Middle	ware/Oracle_H	lome/user_pr	ojects/d	omains/base_do	main/bin		:
File	Edit	View	Search	Terminal	Tabs	Help								
0	racle@	hpgen	9-01:/ho.	×	oracle	@hpgen9-01:/	/ho ×	oracle@hj	ogen9-01:/ho		oracle@hpger	19-01:/ho	×	Æ,
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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:

\_\_\_\_\_

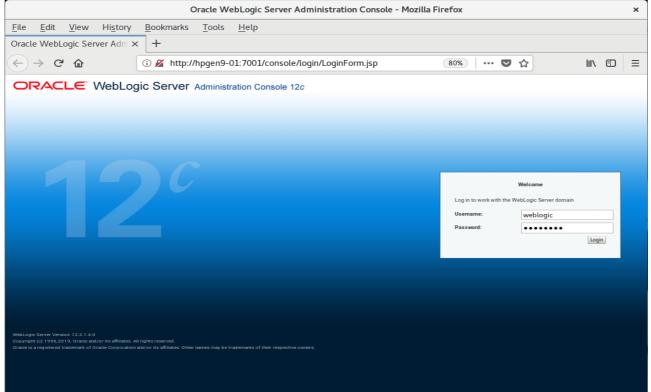
Server state changed to RUNNING.

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

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

#### Login Page:



#### Home Page:

	Home Page - base_d	omain - WLS Console - Mozilla Firef	Fox	×				
<u>File Edit V</u> iew Hi <u>s</u> tory	<u>B</u> ookmarks <u>T</u> ools <u>H</u> elp							
Home Page - base_domain - 🗘	× +							
← → ♂ ଢ	(i) http://hpgen9-01:7001/console/c	onsole.portal?_nfpb=true&.	80% ···· 🛡 🏠 💷 🖽	≡				
ORACLE WebLogic Server Adn	ninistration Console 12c		Q	⊇∣				
Change Center	🏠 Home Log Out Preferences 🖂 Record Help	9	Welcome, weblogic Connected to: base_dom	nain				
View changes and restarts	Home			- 1				
Click the Lock & Edit button to modify, add or	Home Page							
delete items in this domain.	- Information and Resources			_ 1				
Lock & Edit		General Information						
Release Configuration	Helpful Tools  Configure applications	Common Administration Task Descriptions						
	Configure applications     Configure GridLink for RAC Data Source	Read the documentation						
Domain Structure	Configure a Dynamic Cluster	<ul> <li>Ask a question on My Oracle Support</li> </ul>						
base_domain	<ul> <li>Recent Task Status</li> </ul>							
Environment	<ul> <li>Set your console preferences</li> </ul>							
Deployments     Services	Oracle Enterprise Manager							
-Security Realms	Domain Configurations							
Interoperability	Domain comparations							
Diagnostics	Domain	Resource Group Templates	Interoperability					
	Domain	<ul> <li>Resource Group Templates</li> </ul>	WTC Servers					
			Jolt Connection Pools					
	Domain Partitions	Resource Groups						
	Domain Partitions	Resource Groups	Diagnostics					
How do I	Partition Work Managers		Log Files					
Search the configuration	Environment	Deployed Resources	Diagnostic Modules     Built-in Diagnostic Modules					
Use the Change Center		Deployments	Built-in Diagnostic Modules     Diagnostic Images					
Record WLST scripts	Servers     Clusters	Services	Request Performance					
Change Console preferences	<ul> <li>Clusters</li> <li>Server Templates</li> </ul>		Archives					
Manage Console extensions	<ul> <li>Migratable Targets</li> </ul>	<ul> <li>Messaging</li> <li>JMS Servers</li> </ul>	Context					
Monitor servers	Coherence Clusters	<ul> <li>Store-and-Forward Agents</li> </ul>	SNMP					
	Machines	JMS Modules	Interceptors					
System Status 🖂	Virtual Hosts	Path Services						
Retrieving Health Data	Virtual Targets	<ul> <li>Bridges</li> </ul>	Charts and Graphs					
Failed (0)	Work Managers	Data Sources	Monitoring Dashboard					
Critical (0)	Concurrent Templates	Persistent Stores						
Overloaded (0)	Resource Management	XML Registries						
Warning (0)	Startup And Shutdown Classes	XML Entity Caches						

		Summary of Se	ervers - base_c	lomain - WLS (	Console - Mozilla F	irefox			×
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory	<u>B</u> oo	kmarks <u>T</u> ools <u>H</u>	elp						
Summary of Servers - base_C>	< +								
← → ℃ ŵ	(i) I	http://hpgen9-01:700	L/console/cons	ole.portal?_nfpl	o=true&. 🗐 🤅	80%	♥ ☆	∖ ⊡	≡
ORACLE WebLogic Server Adm	ninistratio	n Console 12c							$\mathbf{P}$
Change Center	🔒 Ho	me Log Out Preferences 🔤 Ree	cord Help	9			Welcome, weblogic	Connected to: base_d	lomain
View changes and restarts	Home	>Summary of Servers							
Click the Lock & Edit button to modify, add or	Summa	ary of Servers							
delete items in this domain.	Config	guration Control							
Lock & Edit									
Release Configuration	Ase	erver is an instance of WebLogic Se	rver that runs in its own	Java Virtual Machine (JV	M) and has its own configurati	on.			
Domain Structure	This	page summarizes each server tha	t has been configured in	the current WebLogic Se	rver domain.				
base_domain									_ 11
Domain Partitions     Environment	52								_ 11
Deployments	De Cu	stomize this table							
-Services	Sen	vers (Filtered - More Columns Exist)	)						
Interoperability     Diagnostics	Clic	k the Lock & Edit button in the Char	ige Center to activate all	the buttons on this page					
E biagnostica	Exc.								
	INE	ew Clone Delete					Showing 1 to 3	3 of 3 Previous Nex	a
		Name 🗠	Туре	Cluster	Machine	State	Health	Listen Port	
		AdminServer(admin)	Configured		suse_Machine_1	RUNNING	< ок	7001	
How do I 🖃		oim_server1	Configured	oim_cluster_1	suse_Machine_1	SHUTDOWN	Not reachable	14000	
Create Managed Servers		soa_server1	Configured	soa_cluster_1	suse_Machine_1	SHUTDOWN	Not reachable	7003	
Clone servers     Delete Menored Convers	- Nk	ew Clone Delete		I	I	I	Showing 1 to 3	3 of 3 Previous Nex	
Delete Managed Servers     Delete the Administration Server	1.44	Count Draw of					chowing 1 to t	Foro Prenous nex	
Start and stop servers									
View objects in the JNDI tree									
System Status									
Health of Running Servers as of 4:42 PM									
Failed (0)									
Critical (0)									
Overloaded (0)									- 1
Warning (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 s	suse_Machine_1 - base_d	omain - WLS Console	e - Mozilla Firef	ox		×
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ORACLE WebLogic Server Admi	inistration Console 12c						Q
Change Center	A Home Log Out Preference	es 🟊 Record Help	Q		Welcome, w	eblogic Connected to: base	domain
View changes and restarts	Home >Summary of Servers >Su	nmary of Environment >Summary of Machines >	suse_Machine_1				
Click the Lock & Edit button to modify, add or	Settings for suse_Machine_1						
delete items in this domain.	Configuration Monitoring	Notes					
	Node Manager Status Node	e Manager Log					
Release Configuration							
Domain Structure	This page allows you to view	current status information for the Node Ma	nager instance configured for this	machine.			
base_domain  Domain Partitions							
Environment	Status:	Reachable		Current status (	of this Node Manager. Mo	re Into	
Servers EClusters	Version:	12.2.1.4.0		Version string r	eturned from the Node Man	ager. More Info	
Coherence Clusters Resource Groups							
Resource Group Templates							
Virtual Targets							
Work Managers							
Concurrent Templates							
How do I							
Monitor Node Manager status							
Monitor Node Manager logs							
Create and configure machines							
System Status							
Health of Running Servers as of 4:43 PM							
Failed (0)							
Critical (0)							
Overloaded (0)							
Warning (0)							
OK (1)							

2). Access to Enterprise Manager Console.

### Login Page:

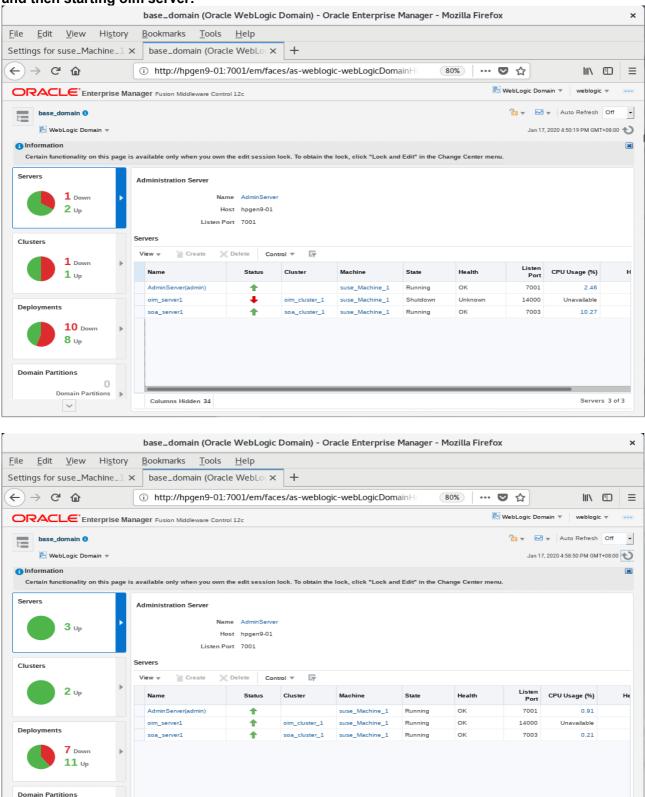
Sign in - Oracle Enterprise Manager - Mozilla Firefox	>
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→ C û û 🔏 http://hpgen9-01:7001/em/faces/targetauth/emasLogin?target 80% ♥ ☆ III\ 🗉	Ξ
SIGN IN TO <b>ORACLE ENTERPRISE MANAGER</b> FUSION MIDDLEWARE CONTROL 12c	
Domain Domain_base_domain	
* User Name weblogic	
* Password	
Login to Partition	
Sign in	
ORACLE	

### Home Page:

			base_domain (Oracle V	vebLogic	Domain, O	acte Enterprise				
e <u>E</u> dit	<u>V</u> iew	Hi <u>s</u> tory	<u>B</u> ookmarks <u>T</u> ools <u>H</u>	<u>H</u> elp						
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Information										×
Certain funct	tionality or	n this page is	s available only when you own the	edit session l	ock. To obtain the	lock, click "Lock an	d Edit" in the Change	Center menu.		
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Clusters	<b>1</b> υթ	Þ	Host Listen Port Servers View + Create & De	hpgen9-01 7001	trol 🔻 🕞	Machine suse_Machine_1	State Running	Health OK	Listen Port 7001	CPU Usa (
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Servers 3 of 3

# 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.

Columns Hidden 34

0 Domain Partitions

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

Identity Self Service - Mozilla Firefox			×
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Sign In			1
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New User Registration			- 1
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* Question1       Who was your fifth grade teacher?       • * Answer1       suse1         * Question2       Where were you New Year's 2000?       • * Answer2       suse2			
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* Question1       Who was your fifth grade teacher?       * Answer1       suse1         * Question2       Where were you New Year's 2000?       * Answer2       suse2         * Question3       What is the name of a city where you got lost?       * Answer3       suse3			
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ORACLE	Identity Self Service		Sandboxes Customize -	/sadm 👻 🚥
Home Home My Information Manage your pro passwords and or questions Provisioning Take action on fi assigned to you	ofile, challenge See what you have a See what you have a Pending Approv Take action on reque	or for others	· · ·	

#### 4). Access to OIM Identity System Administration Console - URL: http://host:port/sysadmin

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ORACLE Identity System Administration	on	Accessibility Help About Oracle
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	Sign in with your account	
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Copyright © 2001, 2019, Oracle and/or its affiliates. All righ	ts reserved	
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ORACLE <sup>®</sup> Identity System Administration		
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📳 Form Designer		
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a User	Actions - View - 💽 💥 🖉 🖾 🔛	
a Organization	No search conducted.	
🖓 Role	Policies	
Catalog	Search Approval Policies	
System Configuration	System Management	
Self Service Capabilities	System Management	
📸 Lookups	Search Notification Templates	
Role Categories	Search System Properties	
Cheduler		
Configuration Properties		
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#### Oracle Fusion Middleware 12c on SLES 15 SP1

# 5). Access to Oracle SOA infrastructure Main Page – URL: http://host:port/soa-infra

	Welcome to the Oracle SOA Platform on WebLogic - Mozilla Firefox		×
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↔ ∀ ⊕	③ http://hpgen9-01:7003/soa-infra/	\ ⊡	≡
Welcome to the Orac	ele SOA Platform on WebLogic	Linl	ks
SOA Version: v12.2.1.4.0 - MAIN_19082 WebLogic Server 12.2.1.4.0 (12.2.1.4.0) Running on: soa_server1		SOA Compos BPM Workl	
The following composites are o	currently deployed:		
<ul> <li><u>Test RequestApprov</u></li> <li>2. default/BeneficiaryManage</li> <li><u>Test RequestApprov</u></li> <li>3. default/CertificationOversion</li> <li><u>Test CertificationTase</u></li> <li>4. default/CertificationProcesion</li> </ul>	gerApproval!4.0*soa_e1612ae0-b783-4a89-ac95-13c2bca3434d r <u>alService</u> seerProcess!2.0*soa_720e8a46-fb27-46fe-b67b-2bfabe2dd46e <u>skService</u> ess!2.0*soa_16666342-d04c-4e32-a6d5-173521dd036b		
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<ul> <li><u>Test RequestApprov</u></li> </ul>			
7. default/DefaultRoleAppro • Test RequestApprov	oval!3.0*soa_488b54ba-5003-4f4f-9164-aa88bfd02708 ralService		
8. default/DefaultSODAppro	oval!2.0*soa_67e10934-0d83-40a1-b179-739bda7cd2eb		
<ul> <li><u>Test RequestApprov</u></li> <li>9. default/DisconnectedProv</li> <li>Test manualprovisio</li> </ul>	visioning!2.0*soa_e42de6a7-5944-4fd4-95ad-9bdc6ef9fab4		
	nediation!1.0*soa_3c5292f2-4fb2-4984-95fb-767305d3ce2f		
11. default/OAACGRoleAssig	nSODCheck!1.0*soa_66417375-3036-4692-845c-19e5eedcd64a		
<ul> <li><u>Test RequestApprov</u></li> <li>12. default/ProvideInformation</li> </ul>	r <u>alService</u> on!3.0*soa_4daca0b0-d84c-4539-a045-bad39a0f7085		
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SIGN IN TO   SOA COMPOSER     weblogic	
ORACLE	
Copyright 2004, 2019, Oracle and/or its affiliates. All rights reserved. Accessibility	

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

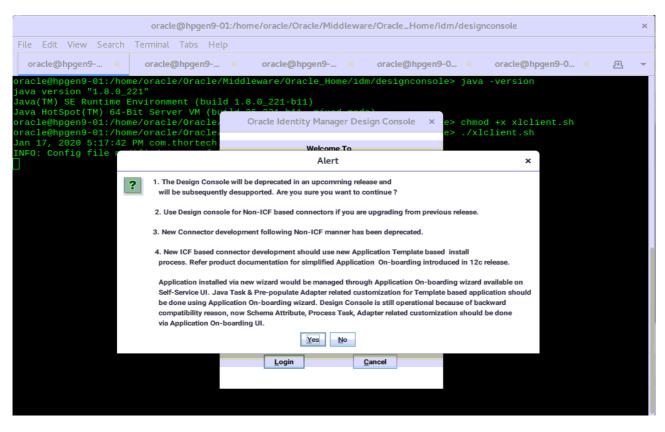
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(←) → ୯ ଘ	<ul> <li>i) http://hpgen9-01:7003/soa/composer/faces/home?_adf.no-new-</li> <li>80%</li> <li>●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●</li></ul>	≡
CRACLE' SOA Composer  Create Session  Deployment View Composites  Composites		
CaseManagementBaseDictie		
	Diagnostics History Center Logs	

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@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/idm/designconsole	×
File Edit View Search Te	rminal Tabs Help	
oracle@hpgen9 ×	oracle@hpgen9 × oracle@hpgen9 × oracle@hpgen9-0 × oracle@hpgen9-0 × 🖭	~
java version "1.8.0_221	ironment (build 1.8.0_221-b11) Server VM (brild 25-221-b14 rejued ande) oracle/Oracle, Oracle Identity Manager Design Console × e> chmod +x xlclient.sh	
	Welcome To	
	ORACLE* Oracle Identity Manager Design Console	
	Server URL t3://hpgen9-01:14000	
	User ID xelsysadm	
	Password	
	Version 12.2.1.4.0.0.0	

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Click on Login. Then click Yes to confirm.

#### Viewing OIM Design Console.

Oracle Identity Manag	ger Design Console : connected to jdbc:oracle:thin:@//hpgen9-01:1521/SUSE	×
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Oracle Identity Manager Design Con:	Form Designer	
Resource Management	Table Information	
IT Resources Type Definition	Table Name	
Rule Designer	Description	
Process Management	Preview Form	
- 🔛 Email Definition	- Version Information	
Event Handler Manager	Latest Version Active Version	
Data Object Manager	□ Operations	
Process Definition      Administration	Current Version  Create New Version	
	Make Version Active	
E Development Tools	Make version Active	
- 🎊 Adapter Factory	Administrators Usage Pre-Populate Default Columns User Defined Fields	
- Manager	Additional Columns Child Table(s) Object Permissions Properties	
Form Designer	Add Name Variant Type Length Field Label Field Type Default V	
Error Message Definition     Reconciliation Rules		
	Delete	
		Ŧ
	Form Designer	

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 15 SP1. You can extend this topology to make it highly available and secure so it is suitable for a production system.

SUSE ISV Engineering Team Jan 23rd, 2020 https://www.suse.com