Oracle Fusion Middleware 12c on SLES 15

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

Oracle

• Database 12cR2 (12.2.0.1.0) - (x86_64) (http://www.oracle.com/technetwork/indexes/downloads/index.html#database)

• Java SE Development Kit 8 (jdk-8u161-linux-x64.tar.gz) (<u>http://www.oracle.com/technetwork/indexes/downloads/index.html#java</u>)

• WebLogic Server 12cR2 (12.2.1.3) (fmw_12.2.1.3.0_wls_Disk1_1of1.zip) (http://www.oracle.com/technetwork/middleware/fusion-middleware/downloads/index.html)

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

• Forms and Reports 12c (12.2.1.3.0) - (x86_64) (<u>http://www.oracle.com/technetwork/indexes/downloads/index.html#middleware</u>)

• WebTier 12cR2 Oracle HTTP Server (12.2.1.3.0) - (x86_64) (http://www.oracle.com/technetwork/indexes/downloads/index.html#middleware)

• WebCenter Portal 12c (12.2.1.3.0) - (fmw_12.2.1.3.0_wcportal_Disk1_1of1.zip) (<u>http://www.oracle.com/technetwork/indexes/downloads/index.html#middleware</u>)

• SOA Suite 12c (12.2.1.3.0) - (fmw_12.2.1.3.0_soaqs_Disk1_1of2.zip) (http://www.oracle.com/technetwork/indexes/downloads/index.html#middleware)

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

Testing machine information

- HP DL388 Gen9 Server
- CPU: 2 * Intel(R) Xeon(R) CPU E5-2630 v3 @ 2.40GHz
- RAM: 64 GB
- NIC: 8
- Local HDD: 2 TB
- Operating System: SUSE Linux Enterprise Server 15 (x86_64)
- Kernel version: 4.12.14-23-default

Prerequisites

1. Installing SUSE Linux Enterprise Server 15

1-1. Install SUSE Linux Enterprise Server 15 on your testing machine. To do so, follow the instructions in the official SUSE Linux Enterprise Server documentation at <u>https://www.suse.com/documentation/sles-15/index.html</u>.

Figure 1-1 Software Installed as shown below

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-	AppArmor		cron		Auxiliary package			4.2-4.45	181	
			cronie grub2		Cron Daemon Bootloader with s	upport for Li		1.5.1-4.45 2.02-17.4	248.6 H 21.5 N	
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I 💮	YaST Installation Packages			base-minimal_ba	,			20171206-22.1	58	8 B
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. €	GNOME Desktop Environment (_	shim svstemd-r		UEFI shim loader			14-5.8 234-22 3	2.6 N 5 3 J	
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- 1	Oracle Server Base	corr	rect vendo	or brand packages.						
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	Base Development									
	Linux Kernel Development									
	YaST Development	•						<u>C</u> ancel	Acce	ept

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

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F	Pattern	•							
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	Enhanced Base System			-base-basesystem				20171206-22.1	
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E	Graphical Environi	me							
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🖬 🔀 🛛	X Window System		D <u>e</u> scription	Technical Data	Dependen	cies <u>V</u> ersions	File List	Change Log	
Ξ	Primary Functions	;	orarun - An	Environment for Ru	nning Oracle	Products			
	Oracle Server Base		This package	e creates the user a	nd the aroups	s for Oracle, sets	the Oracle e	environment varia	ables.
E	Development			arameters to value	5 1				
_	•		stop of Orac	le components at s	ystem start a	nd stop time. It a	lso includes	dependencies fo	r other
	Base Development			ckages needed to in			,	1 5	
ו 📠 🗆	Linux Kernel Development			ges are included aut					
	YaST Development			install them (when			ia). This pac	kage is not requi	
		•						<u>C</u> ancel	<u>A</u> ccept

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

oracle@hpgen9-01:~> more /etc/os-release NAME="SLES"
VERSION="15"
VERSION_ID="15"
PRETTY_NAME="SUSE Linux Enterprise Server 15"
ID="sles"
ID LIKE="suse"
ANSI_COLOR="0;32"
CPE_NAME="cpe:/o:suse:sles:15"
oracle@hpgen9-01:~> uname -a
Linux hpgen9-01 4.12.14-23-default #1 SMP Tue May 29 21:04:44 UTC 2018 (cd0437b) x86 64 x86 64 x86 64 GNU/Linux
oracle@hpgen9-01:~> more /etc/issue
Welcome to SUSE Linux Enterprise Server 15 (x86_64) - Kernel \r (\l).

1-2. Special Startup Requirements.

1). Increase the value for kernel parameter.

Change the value of shmmax to 34359738360 by including the following line in '/etc/sysctl.conf'

kernel.shmmax = 34359738360

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

kernel.shmall = 9272480

Activate the new SHMMAX setting by running the command:

/sbin/sysctl -p

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

ulimit -a

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

oracle soft nofile 1024

Change the values from 1024 to 4096;

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

oracle soft stack 10240

then reboot the machine.

2. Installing Oracle Database 12cR2

2-1. Log in to the target system (SUSE Linux Enterprise Server 15 64-bit OS) as a non-admin user. Download Oracle Database 12cR2 (12.2.0.1.0) x86_64 from http://www.oracle.com/technetwork/indexes/downloads/index.html#database.

2-2. Oracle Database 12cR2 (12.2.0.1.0) is officially certified for SUSE Linux Enterprise Server 15. For detailed instructions please use Official Oracle Install guides: <u>http://docs.oracle.com/en/database/database.html</u>.

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 Mon Jul 30 16:06:44 2018 Copyright (c) 1982, 2016, Oracle. All rights reserved. SQL> conn /as sysdba Connected to an idle instance. SQL> startup ORACLE instance started. Total System Global Area 2.0200E+10 bytes Variable Size Fixed Size 19247928 bytes 4362079432 bytes Database Buffers 1.5771E+10 bytes Redo Buffers 47857664 bytes Database mounted. Database opened. SQL> select name, open mode from v\$database; OPEN_MODE NAME SUSE READ WRITE SQL> exit Disconnected from Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64bit Production oracle@hpgen9-01:~>

Applications Places Firefox	,	Mon 16:11 ທ 🖒
	EM Express Login - Mozilla Firefox	_ = ×
EM Express Login × +		
(iii http://hpgen9-01:5501/em/login	90% C Q Search	☆自∔ ⋒ ♥ ☰
Inttp://hpgen9-01:5501/em/login		Login
https://www.suse.com/company/legal/#cookies Applications Places Firefox EM Express - Databas × +	-policy racle is a registered trademark of Oracle Corporation and/or its affiliates. Other names n 	Mon 16:13 (1) ()
(*) (i) iii http://hpgen9-01:5501/em/shell#/	dbhome/show_regions 90% C Q Search	☆自◆命▽≡
ORACLE Enterprise Manager Database Expres		Help 🗸 🛛 👥 SYS 🛛 Log Out 🔵
SUSE (12.2.0.1.0)	Security 👻 Performance 👻 Page Refreshed 4:13:01 PM GMT+0800 A	hpgen9-01 🚺 kuto Refresh 🛛 1 Minute 💌 🖒 📥
Status Up Time 5 minutes Type Single instance (suse) Version 12.2.0.1.0 Enterprise Edition Database Name SUSE Instance Name suse Platform Name Linux x86 64-bit Host Name hpgen9-01 Thread 1 Archiver Stopped	✓ Performance Activity Class Services 30	■ Wait ■ User I/O ■ CPU
Inst Time Inci Pro Error	Host CPU Active Sessions Memory	Data Storage
No Incidents	1.2% 1 20 GB PGA .8% Other .6 User I/0 12 GB shered I/ .4% Instance(s) .4 CPU 8 GB Large Po .2 .2 .2 .2 .2 .2 .2 .2	roPool 4 GB - User 3 GB - Temporary ol 2 GB - Undo 1 Ol 1 GB - System
✓ Running Jobs	SQL Monitor - Last Hour (20 max)	
Inst Owner Name Ela Started	Status Duration Ty ID User Name Parallel Image: Comparison of the state of the	Database Time SQL Text 17.8s select cou

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.

	Dat	abase Configuration Assistant	- Create a database - Step 2 of 14 Z
Sel	ect Database Creation Mo	de	
<u> </u>	Database Operation	<u>Typical configuration</u>	
-	Creation Mode Deployment Type	<u>G</u> lobal database name: <u>S</u> torage type:	suse File System
ļ	Database Identification Storage Option	Database files location:	{ORACLE_BASE}/oradata/{DB_UNIQUE_NAME} Browse
Ý	Fast Recovery Option	F <u>a</u> st Recovery Area (FRA):	{ORACLE_BASE}/fast_recovery_area/{DB_UNIQUE_NAME} Browse
Ĵ	Database Options Configuration Options	Database <u>c</u> haracter set:	AL32UTF8 - Unicode UTF-8 Universal character set
Į	Management Options	Administrative password:	
Ý	User Credentials	Confirm <u>p</u> assword:	
Ĭ	Creation Option Summary	Cr <u>e</u> ate as Container databas	e
ģ	Progress Page	Pluggable database name:	
0	Finish	○ Ad <u>v</u> anced configuration	
	Help		< <u>B</u> ack <u>N</u> ext > Einish Cancel

)

3. Installing Java

3-1. For Oracle FMW components 12c (12.2.1.3.0), the certified JDK is 1.8.0_131 and later. Log in to the target system (SUSE Linux Enterprise Server 15 64-bit operating system) as a non-administration user. Download the Java SE Development Kit 8 (jdk-8u161-linux-x64.tar.gz) from http://www.oracle.com/technetwork/indexes/downloads/index.html#java

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 Tabs Help			
oracle@hpgen9-01:~ × oracle@hpgen9-01:~ ×		æ	•
oracle@hpgen9-01:~> export JAVA_HOME=/home/oracle/ORACLE_SW/Java/jdk1.8.0_161 oracle@hpgen9-01:~> export PATH=\$JAVA_HOME/bin:\$PATH oracle@hpgen9-01:-> java -version java version "1.8.0_161" Java(TM) SE Runtime Environment (build 1.8.0_161-b12) Java HotSpot(TM) 64-Bit Server VM (build 25.161-b12, 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_131 and later is installed.

1-2. Log in to the target system (SUSE Linux Enterprise Server 15 64-bit OS) as a non-admin user. Download the Oracle WebLogic Server 12cR2 (12.2.1.3.0) from <u>http://www.oracle.com/technetwork/middleware/fusion-middleware/downloads/index.html</u>. (**Note:** Please ensure the installation user has the proper permissions to install and configure the software.)

1-3. Go to the directory where you downloaded the installation program. Extract the contents of the .zip archive(fmw_12.2.1.3.0_wls_Disk1_1of1.zip) and launch the installation program by running 'java -jar fmw_12.2.1.3.0_wls.jar'

For the actual installation, follow the steps below:

1). Installation Inventory Setup.

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

Oracle Fusion Middleware 12c WebLogic Installation					
Installation Inven	tory Setup				
Central Inventory Directory Enter the Central inventory directory for all your oracle installations. The installer will create a new central inventory directory if it does not exist.					
Inventory Directory:	/home/oracle/oralnventory Enter the full path for the directory.		Browse		
Operating System Group :	oinstall Specify a group with write permissio	on to the inventory directory	•		
Central Inventory Pointer File Click OK to create a script (createCentralInventory.sh) in the inventory directory. Run this script to create a pointer file, which is used to identity the location of the central inventory for future installations and administrative operations, such as patching and upgrade.					
Help		<u>0</u> K	Cancel		

2). Welcome.

Velcome	
Welcome	1
Auto Updates	Welcome to the Oracle Fusion Middleware 12c (12.2.1.3.0) WebLogic Server and Coherence Installer.
Installation Location	Use this installer to create a new Oracle home that contains the Oracle WebLogic Server and Oracle Coherence software. You can use this software to configure a WebLogic Server domain for the deployment of Java applications.
Prerequisite Checks	
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, 2017, 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.

3). Auto Updates.

Oracle Fusio	n Middleware 12c WebLogic Server	and Coherence Installation - Step 2 of 8 _ ×
Auto Updates		
Auto Updates Velcome 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> <u>Location:</u> Search <u>My</u> Oracle Support for Updates <u>Username:</u> Proxy Settings <u>Search</u>	
Help		< Back Next > Finish Cancel

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

4). Installation Location.

Oracle Fusio	on Middleware 12c WebLogic Server and Co	oherence Installatio	on - Step 3 of 8	_ ×
Installation Location				
Y Welcome	Oracle Home:			
Auto Updates	/home/oracle/Oracle/Middleware/Oracle_Home		-	Browse
Installation Location	Feature Sets Installed At Selected Oracle Home:	View		
Installation Type	No Features are installed at selected Oracle Hor			
Prerequisite Checks				
Installation Summary				
Installation Progress				
Unstallation Complete				
	Oracle Home may only contain alphanumeric, under	score () hyphen (-) or do	ot() characters and it m	ust begin with an
	alphanumeric character.	(=),, []()		
Help		< <u>B</u> ack	<u>N</u> ext > <u>Finish</u>	Cancel

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

5). Installation Type.

nstallation Type		
Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary	WebLogic Server <u>C</u> oherence Complete with <u>E</u> xamples	
Installation Progress Installation Complete	 Oracle Fusion Middleware 12c WebLogic Server and Coherence 12.2.1.3.0 Core Server Core Application Server 12.2.1.3.0 Coherence Product Files 12.2.1.3.0 Web 2.0 HTTP Pub-Sub Server 12.2.1.3.0 WebLogic SCA 12.2.1.3.0 WebLogic Client Jars 12.2.1.3.0 Administrative Tools Administration Console Additional Language Help Files 12.2.1.3.0 ClE WLS Config 12.2.1.3.0 Database Support Third party JDBC Drivers 12.2.1.3.0 Open Source Components Fusion Middleware Maven Support 12.2.1.3.0 Oracle Installation Infrastructure FMW Platform Generic 12.2.1.3.0 	
Help	< Back Next > Finish Ca	ancel

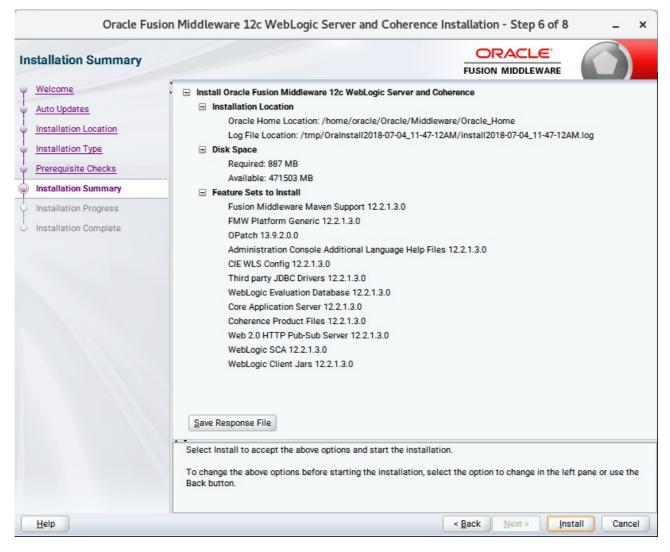
Use this screen to determine the type of installation you want to perform, then click **Next** to continue.

6). Prerequisite Checks.

Oracle Fusio	on Middlev	ware 12c WebLogic Server and Coherence Ir	nstallation	n - Step 5 o	f 8	-	×
Prerequisite Checks					E		
<u>Welcome</u>	1						
Auto Updates		100%					
Installation Location		Checking operating system certification					
Installation Type	×	Checking Java version used to launch the installer					
Prerequisite Checks							
Installation Summary							
Unstallation Progress							
Installation Complete							
							-
		cking operating system certification					
	Pr	oblem: This Oracle software was not certified on the curre			time it wa	as made	
	ge	nerally available. It may have been certified following gene	eral availabili	ty.			
		commendation: Check the Supported System Configuration			000501.	1) 6 . 6	
	de	ttp://www.oracle.com/technetwork/middleware/ias/down tails. If your operating system is certified and no other pre					
	to	continue.					
		pected result: One of oracle-6, oracle-7, redhat-7, redhat-6,	SuSE-11, Su	SE-12			
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	tual result: (Unknown OS version) cking Java version used to launch the installer					
Help			< Back	<u>N</u> ext >	Finish	Cano	;el

Prerequisite Checks results will be shown as above, there is a problem with "Checking operating system certification". Ignore the warning message, click **Next** to continue.

7). Installation Summary.



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	n Middle	ware 12c WebLogic Server and Coherence Installation - Step 7 of 8 _ ×
Installation Progress		
Y Welcome		
Auto Updates		100%
Installation Location	v	Prepare
O Installation Type	1	Сору
O Prerequisite Checks	v	Generating Libraries
Installation Summary	~	Performing String Substitutions
Installation Progress	~	Linking
Installation Complete	1	Setup
	1	Saving the inventory
	1	Post install scripts
	View	v <u>M</u> essages ✓ <u>V</u> iew Successful Tasks View <u>L</u> og
	-	Hardware and Software Engineered to Work Together
Help	<i></i>	< 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.

Installation Complete	
Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Progress Installation Complete	 Install Oracle Fusion Middleware 12c WebLogic Server and Coherence Installation Location Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home Log File Location: /tmp/Oralnstall2018-07-04_11-47-12AM/install2018-07-04_11-47-12AM.log Feature Sets Installed Successfully Fusion Middleware Maven Support 12.2.1.3.0 FMW Platform Generic 12.2.1.3.0 OPatch 13.9.2.0.0 Administration Console Additional Language Help Files 12.2.1.3.0 CIE WLS Config 12.2.1.3.0 Third party JDBC Drivers 12.2.1.3.0 Core Application Database 12.2.1.3.0 Coherence Product Files 12.2.1.3.0 Web 2.0 HTTP Pub-Sub Server 12.2.1.3.0 WebLogic SCA 12.2.1.3.0 WebLogic Client Jars 12.2.1.3.0
	Next Step(s):
Help	< Back Next > Finish Cancel

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

2. Creating and Configuring the WebLogic Domain

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

To set up your configuration, follow the steps below:

1). Configuration Type.

	Fusion Middl	eware Confi	guration \	Vizard - F	age 1 of 8	3			-	×
Configuration Type								R		
🔍 Create Domain										
A Templates										
Administrator Account										
Domain Mode and JDK										
Advanced Configuration										
Configuration Summary										
Configuration Progress	What do you want	to do?								
O End Of Configuration	Oreate a new of the second	lomain								
	O <u>U</u> pdate an exis	ting domain								
	Domain Location:	vacle/Oracle/	'Middleware/	Oracle_Hom	e/user_projec	:ts/domains/t	base_dom	ain	Brows	e
Help					< Back	Next >	<u><u> </u></u>	h] [Cance	21

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

2). Templates.

	Fusion Middleware Configuration Wizard - Page 2 of 8 _	×							
Templates									
A Create Domain									
Templates	Create Domain Using <u>P</u> roduct Templates:								
Administrator Account	Filter Templates: Type here								
Domain Mode and JDK	Include all selected templates								
Advanced Configuration	Available Templates								
Configuration Summary	Basic WebLogic Server Domain - 12.2.1.3.0 [wlserver] *								
Configuration Progress	WebLogic Advanced Web Services for JAX-RPC Extension - 12.2.1.3.0 [oracle_common] WebLogic Advanced Web Services for JAX-WS Extension - 12.2.1.3.0 [oracle_common]								
End Of Configuration	WebLogic JAX-WS SOAP/JMS Extension - 12.2.1.3.0 [oracle_common] ✓ WebLogic Coherence Cluster Extension - 12.2.1.3.0 [wlserver] ○ <u>C</u> reate Domain Using Custom Template:								
	Template location: //home/oracle/Oracle/Middleware/Oracle_Home Brow	se							
Help	< Back Next > Finish Can	:el							

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

3). Administrator Account.

	Fusion Middle	Configuration Wizard - Page 3	3 of 8	_ ×
Administrator Account				
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Name Password Confirm Password	ssword. Password must contain at leas	FUSION MIDDLEWARE	with at least one
Help		< <u>B</u> a	ack <u>N</u> ext > <u>F</u> inis	h 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 Development Utilize boot.properties for username and password, and poll for appropriate the entry of a username and password, and do not poll for JDK Oracle HotSpot 1.8.0_161 /home/oracle/ORACLE_SW/Java/jdk1.8.0 Other JDK Location: 	applications to deplo	
Help	< <u>B</u> ack	<u>N</u> ext > <u>F</u> inisl	h 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 Configure Node Manager Configure Node Manager Add, Delete or Modify Settings for Managed Servers, Clusters, Virtual Targets and Coherence	
	<u>H</u> elp	< Back Next > Finish	Cancel

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

6). Configuration Summary.

Configuration Summary		
 <u>Create Domain</u> <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 	View: Deployment	Name Basic WebLogic Server Domain Description Create a basic WebLogic Server doma Author Oracle Corporation Location /home/oracle/Oracle/Middleware/Oracle/Server Name WebLogic Coherence Cluster Extension Description Extend an existing WebLogic Server doma Author Oracle Corporation Location /home/oracle/Oracle/Middleware/Oracle/Middleware/Oracle/Oracle/Middleware/Oracle/Oracle/Middleware/Oracle/Oracle/Middleware/Oracle/Oracle/Middleware/Oracle/Oracle/Middleware/Oracle/Oracle/Middleware/Oracle/Oracle/Middleware/Oracle/Oracle/Middleware/Oracle/Oracle/Middleware/Oracle/Oracle/Middleware/Oracle/Oracle/Middleware/Oracle/Oracle/Middleware/Oracle/Oracle/Middleware/Oracle/Oracle/Middleware/Oracle/Oracle/Middleware/Oracle
		• • • • • • • • • • • • • • • • • • •
		g and configuring a new domain. To change the above

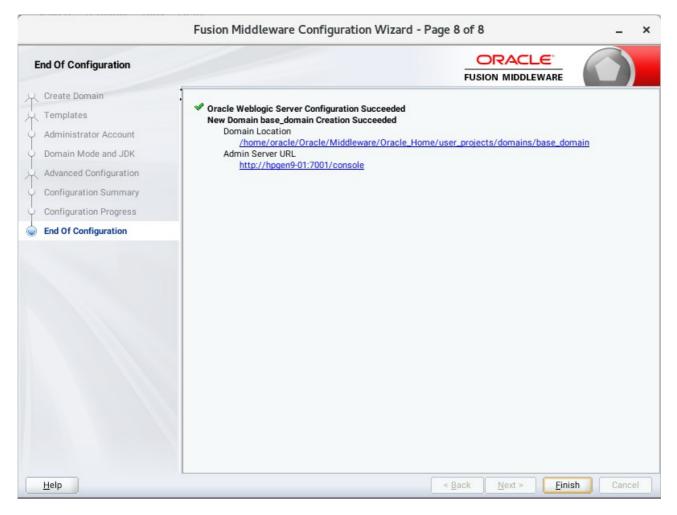
Review this screen to verify the information is correct, then click **Create** to continue.

7). Configuration Progress.

	Fusion Middleware Configuration Wizard - Page 7 of 8	_ ×
Configuration Progress		
A Create Domain		
C Templates	100%	
Q Administrator Account	Copy Unprocessed Artifacts	
 Domain Mode and JDK 	Security Processing	
	✓ Artifacts Generation	
Advanced Configuration	String Substitution	
Configuration Summary	V Post Processing	
Configuration Progress		
End Of Configuration		
Help	< Back Einis	th Cancel

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

8). End Of Configuration.



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/bin _ 0 X File Edit View Search Terminal Tabs Help oracle@hpgen9-01:/home/oracle/ORACLE_SW/WebLogic/... × oracle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracl... × ,A -:Jul 4, 2018 11:56:41,209 AM GMT+08:00> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to STANDBY :Jul 4, 2018 11:56:41,211 AM GMT+08:00> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to STARTING :Jul 4, 2018 11:56:41,269 AM GMT+08:00> <Notice> <Log Management> <BEA-170036> <The Logging monitoring service t mer has started to check for logged message counts every 30 seconds. :Jul 4, 2018 11:56:41,757 AM GMT+08:00> <Notice> <Log Management> <BEA-170027> <The server has successfully esta olished a connection with the Domain level Diagnostic Service.> :Jul 4, 2018 11:56:45,299 AM GMT+08:00> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to ADMIN.> :Jul 4, 2018 11:56:45,384 AM GMT+08:00> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to RESUMING :Jul 4, 2018 11:56:45,439 AM GMT+08:00> <Warning> <Server> <BEA-002611> <The hostname "localhost", maps to multi le IP addresses: 127.0.0.1, 0:0:0:0:0:0:0:0:1.> :Jul 4, 2018 11:56:45,440 AM GMT+08:00> <Notice> <Server> <BEA-002613> <Channel "Default[2]" is now listening or 127.0.0.1:7001 for protocols iiop, t3, ldap, snmp, http.> :Jul 4, 2018 11:56:45,440 AM GMT+08:00> <Notice> <Server> <BEA-002613> <Channel "Default[1]" is now listening or 0:0:0:0:0:0:0:1%lo:7001 for protocols iiop, t3, ldap, snmp, http.> :Jul 4, 2018 11:56:45,440 AM GMT+08:00> <Notice> <WebLogicServer> <BEA-000331> <<u>Started the WebLogic Server Adm</u>: nistration Server "AdminServer" for domain "base_domain" running in development m Jul 4, 2018 11:56:45,441 AM GMT+08:00> <Notice> <Server> <BEA-002613> <Channel "Default" is now listening on 14 .2.207.96:7001 for protocols iiop, t3, ldap, snmp, http.> Jul 4, 2018 11:56:45,442 AM GMT+08:00> <Notice> <Server> <BEA-002613> <Channel "Default[2]" is now listening or "Default" is now listening on 14 127.0.0.1:7001 for protocols iiop, t3, ldap, snmp, http.> :Jul 4, 2018 11:56:45,443 AM GMT+08:00> <Notice> <Server> <BEA-002613> <Channel "Default[1]" is now listening of 0:0:0:0:0:0:0:1:30:445,444 AM GMT+08:00> (Notice> <BCA-002013> <Channet "Default[1] is now listening of 0:0:0:0:0:0:1%lo:7001 for protocols iiop, t3, ldap, snmp, http.> <Jul 4, 2018 11:56:45,444 AM GMT+08:00> <Notice> <Server> <BEA-002613> <Channel "Default" is now listening on 147.2.207.96:7001 for protocols iiop, t3, ldap, snmp, http.> <Jul 4, 2018 11:56:45,450 AM GMT+08:00> <Notice> <WebLogicServer> <BEA-000360> <The server started in RUNNING mo . JUL 4, 2018 11:56:45,463 AM GMT+08:00> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to RUNNING.

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

Server state changed to RUNNING.

-

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

Access to WebLogic Server Admin Console - Login page

Oracle WebLogic Server Administration Console - Mozilla Firefox			
Oracle WebLogic Server × +			
(€) ③ ≝ http://hpgen9-01:7001/console/login/LoginForm.jsp 90%	C Q Search 🟠 🖨 🕴	* ♥ ≡	
CRACLE WebLogic Server Administration Console 12c	Welcome Log in to work with the WebLogic Server domain Username: weblogic Password: •••••••	Login	
WebLogic Server Version: 12.2.1.3.0 Copyright (c) 1996.2017, Oracle and/or its affiliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.			

			Summary of Server	s - bas	e_domain - V	/LS Console	e - Mozilla Fire	efox				- •	×
Summary of Servers - ba ×	+												
(i) http://hpgen9-01:7001/c	onsol	le/c	onsole.portal?_nfpb=	true&	_p 🖾 90%) ୯ ୧	Search		☆ 自	Ŧ	1		≡
	ninistra	ation	Console 12c										õ
Change Center	â	🟦 Home Log Out Preferences 🖾 Record Help							omain				
View changes and restarts	Н	Home >Summary of Servers											
Configuration editing is enabled. Future changes	nges Summary of Servers												
will automatically be activated as you modify, add or delete items in this domain.	Co	Configuration Control											
Domain Structure base_domain ⊕ -Domain Partitions ⊕ -Environment ⊕ -Services ⊕ -Services ⊕ -Services ⊕ -Interoperability ⊕ -Diagnostics	A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration. This page summarizes each server that has been configured in the current WebLogic Server domain. () Customize this table Servers (Filtered - More Columns Exist) New Cone Delete Showing 1 to 1 of 1 Previous Nex Name $\hat{\otimes}$ Type Cluster Machine State Health Listen Port						lext						
			AdminServer(admin)		Configured			RUNNING	🖋 ОК	70	01		1
How do I		Nev	v Clone Delete		-		I	I	Showing	1 to 1 -	£1 D-	vious Nex	-
Create Managed Servers		IVEN	Cione Delete						Showing	11010	IT PR	wous Ne	
Clone servers													
Delete Managed Servers	_												_
Delete the Administration Server Start and stop servers													
View objects in the JNDI tree													
System Status													
Health of Running Servers as of 12:00 PM													
Failed (0) Critical (0)													

Viewing WebLogic Server Admin Console - Home page

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_131 and later installed.
- 3). Oracle WebLogic Server 12cR2 (12.2.1.3.0) (Fusion Middleware Infrastructure Installer)

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

3-1). Welcome.

Oracle Fusion Middleware 12c Infrastructure Installation - Step 1 of 8					
Welcome					
Welcome Image: Second	Welcome to the Oracle Fusion Middleware 12c (12.2.1.3.0) Infrastructure Installer. Use this installer to create a new Oracle home that contains the Oracle Fusion Middleware Infrastructure 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 Java and Oracle ADF applications.				
Prerequisite Checks Installation Summary Installation Progress	For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware documentation library.				
Ů Installation Complete	Copyright © 1996, 2017, Oracle and/or its affiliates. All rights reserved.				
Help	< <u>Back</u> <u>Next</u> > <u>Finish</u> Cancel				

3-2). Installation Type.

0

nstallation Type		
<u>Welcome</u> <u>Auto Updates</u> <u>Installation Location</u> Installation Type	Fusion <u>M</u> iddleware Infrastructure With Examples Eusion Middleware Infrastructure	
 Prerequisite Checks Installation Summary Installation Progress Installation Complete 	 Oracle Fusion Middleware 12c Infrastructure 12.2.1.3.0 Core Server Core Application Server 12.2.1.3.0 Coherence Product Files 12.2.1.3.0 Web 20 HTTP Pub-Sub Server 12.2.1.3.0 Web Logic SCA 12.2.1.3.0 WebLogic Client Jars 12.2.1.3.0 Administrative Tools Administration Console Additional Language Help Files 12.2.1.3.0 Clie WLS Config 12.2.1.3.0 Clie WLS Config 12.2.1.3.0 Enterprise manager 12.2.1.3.0 Database Support Third party JDBC Drivers 12.2.1.3.0 Open Source Components	
Help	< Back Next > Fini	ish Cancel

3-3). Installation Complete.

Installation Complete		
Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Progress Installation Complete	 Install Oracle Fusion Middleware 12c Infrastructure Installation Location Oracle Home Location: /home/oracle/Oracle//Log File Location: /home/oracle//Log File Location: /hom	04-16-42PM/install2018-07-30_04-16-42PM.log
	Next Step(s): See the online help for next steps after installation. Oracle Fusion Middleware 12c Infrastructure installation	completed successfully

1-2. Log in to the target system (SUSE Linux Enterprise Server 15 64-bit OS) as a non-admin user. Download the Oracle Forms and Reports 12c (12.2.1.3.0) from

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

1-3. Go to the directory where you downloaded the installation program. Extract the contents of these .zip (fmw_12.2.1.3.0_fr_linux64_Disk1_1of1.zip and fmw_12.2.1.3.0_fr_linux64_Disk1_2of2.zip) files and launch the installation program by running '**fmw_12.2.1.3.0_fr_linux64.bin**'.

For the actual installation, follow the steps below:

1). Welcome page.

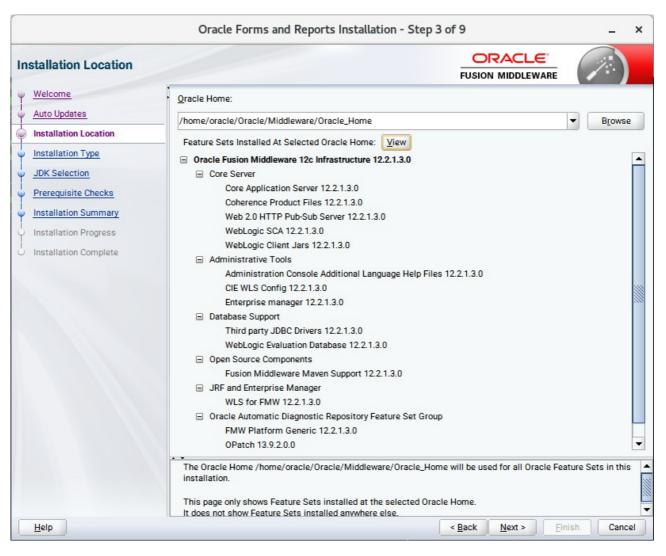
	Oracle Forms and Reports Installation - Step 1 of 9
Welcome	
Welcome	
Auto Updates	Welcome to Oracle Fusion Middleware 12c (12.2.1.3.0) Oracle Forms and Reports Installer.
Installation Location	For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware documentation library.
Installation Type	Context-sensitive online help is available from the Help button.
JDK Selection	
Prerequisite Checks	
Installation Summary	
Installation Progress	
Installation Complete	
	Copyright (c) 1999, 2017, Oracle and/or its affiliates. All rights reserved.
Help	< Back Next > Einish Cancel

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

2). The Auto Updates page appears.

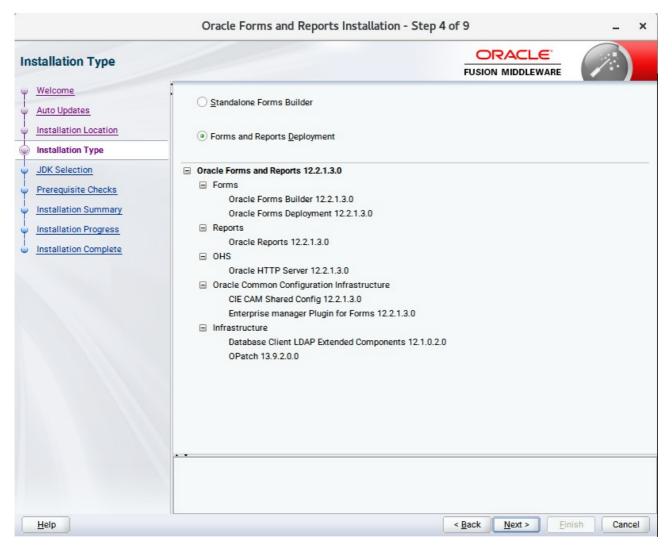
	Oracle Forms and Reports Insta	llation - Step 2 of 9	_ ×
Auto Updates			
Welcome Auto Updates Installation Location Installation Type JDK Selection Prerequisite Checks Installation Progress Installation Complete	Skip <u>A</u> uto Updates Select patches from <u>directory</u> Location: Search <u>My</u> Oracle Support for Updates Username: Password: Proxy Settings Search		Browse Test Connection
Help	1	< Back Next >	Einish Cancel

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



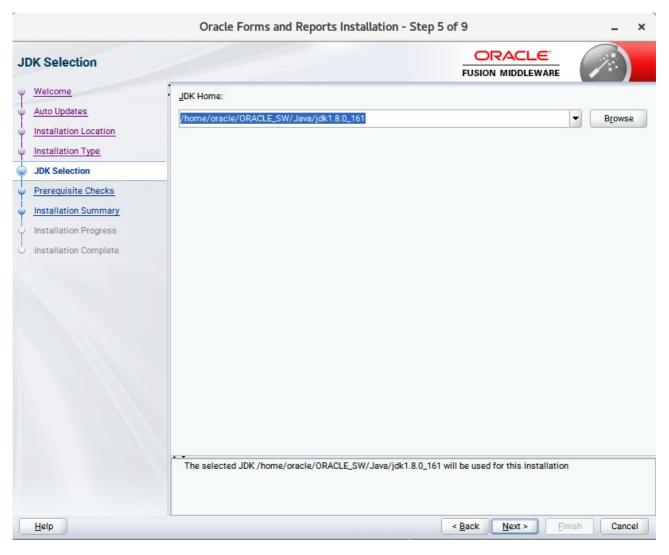
3). The Installation Location page appears.

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



4). The Installation Type page appears.

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



5). The JDK Selection page appears.

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

	Or	acle Forms and Reports Installation - Step 6 of 9	- ×
Prerequisite Checks			
<u>Welcome</u>	:		
Auto Updates		100%	
Installation Location		Checking operating system certification	
Installation Type		Checking recommended operating system packages	
UDK Selection		Checking kernel parameters	
Prerequisite Checks	v	Checking physical memory	
Installation Summary	v	Checking Java version used to launch the installer	
Installation Progress			
Installation Complete			
	Cton	Rerun Skip View Successful Tasks	View Log
	Stop		VIEW LOG
	E. Che	ecking operating system certification	
		ecking recommended operating system packages ecking kernel parameters	
	🗄 🖋 Che	ecking physical memory	
	E ≪Che	ecking Java version used to launch the installer	
Help	11	< Back Next > Ein	ish Cancel

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

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

7). The Installation Summary page appears.

	Oracle Forms and Reports Installation - Step 7 of 9 _ ×
Installation Summary	
Welcome Auto Updates Installation Location Installation Type JDK Selection Prerequisite Checks Installation Summary Installation Progress Installation Complete	 Install Oracle Forms and Reports Installation Location Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home Log File Location: /tmp/Oralnstall2018-07-30_04-28-42PM/install2018-07-30_04-28-42PM.log Disk Space Required: 3053 MB Available: 463211 MB Feature Sets to Install Oracle Forms Builder 12.2.1.3.0 Oracle Forms Deployment 12.2.1.3.0 Oracle Forms Deployment 12.2.1.3.0 Database Client LDAP Extended Components 12.1.0.2.0 Oracle Forms 12.2.1.3.0 Cli E CAM Shared Comfig 12.2.1.3.0 Enterprise manager Plugin for Forms 12.2.1.3.0 Enterprise manager Plugin for Forms 12.2.1.3.0 Select Install to accept the above options and start the installation. To change the above options before starting the installation, select the option to change in the left pane or use the Back button.
Help	< Back Next > Install Cancel

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

	Ora	le Forms and Reports Installation - Step 8 of 9		_ ×
Installation Progress				
 Welcome Auto Updates Installation Location Installation Type JDK Selection Prerequisite Checks 	* * * *	100% Prepare Copy Generating Libraries Performing String Substitutions		
Installation Summary Installation Progress Installation Complete	 ✓ ✓ ✓ ✓ 	Linking Setup Saving the inventory Post install scripts		
	View <u>1</u>		are and So red to Work 1	
Help		< <u>B</u> ack	<u>N</u> ext > <u>F</u> ini	ish Cancel

8). The Installation Progress page appears.

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

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

Installation Complete	
Welcome Auto Updates Installation Location Installation Type JDK Selection Prerequisite Checks Installation Summary Installation Progress Installation Complete	 Install Oracle Forms and Reports Installation Location Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home Log File Location: /tmp/Oralnstall2018-07-30_04-28-42PM/install2018-07-30_04-28-42PM.log Feature Sets Installed Successfuly Oracle Reports 12.2.1.3.0 Oracle Forms Builder 12.2.1.3.0 Oracle Forms Deployment 12.2.1.3.0 Database Client LDAP Extended Components 12.1.0.2.0 Oracle HTTP Server 12.2.1.3.0 Enterprise manager Plugin for Forms 12.2.1.3.0 Pre-Existing Feature Sets OPatch 13.9.2.0.0
	Next Step(s): 1. Create a domain using the Configuration Wizard. 2. Start Node Manager and Domain Servers. Reference Installing and Configuring Oracle Forms & Reports available on OTN for detailed instructions.
	Oracle Forms and Reports installation completed successfully

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.

	pecify a unique prefix for all sch chemas later. O Select existing prefix: O Create new prefix:	emas created in this session,	EUSION MIDDLEWARE
Welcome set Create Repository patabase Connection Details Select Components setema Passwords	Select existing prefix		i, so you can easily locate, reference, and manage th
	Component	Alpha numeric only. Can	not start with a number. No special characters.
Summary Completion Summary		emas structure Services * n Security Services g Service Append Viewer ices ces *	DEV_STB DEV_OPSS UMS DEV_IAU DEV_IAU DEV_IAU_VIEWER MDS DEV_WLS

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

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

3. Configuring Oracle Forms and Reports using the Config Wizard

3-1. In order to complete the configuration. Run the config wizard using **config.sh** located in the **ORACLE_HOME/oracle_common/common/bin** directory.

Follow these steps:

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

	Fusion Middle	eware Configuration Wizard -	Page 1 of 8		-	×
Configuration Type						
Reate Domain						
Templates						
Administrator Account						
Domain Mode and JDK						
Advanced Configuration						
Configuration Summary						
Configuration Progress	What do you want	to do?				
U End Of Configuration	Create a new d	omain				
	O Update an exis	ting domain				
	Domain Location:	racle/Oracle/Middleware/Oracle_Hom	ne/user_projects/domains/ba	se_domain	Brows	e
Help			< Back Next >	Einish	Cance	el

2).	The	Temp	lates	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 Progress End Of Configuration	Create Domain Using Product Templates: Filter Templates: Type here Include all gelected templates Include all previously applied tem Available Templates Oracle Forms Application Deployment Service (FADS) - 12.2.1.3.0 [forms] Oracle Forms Application Deployment Service (FADS) - 12.2.1.3.0 [forms] Oracle Forms (upgrade only) - 12.2.1.3.0 [forms] Oracle Reports Application - 12.2.1 [reports] Oracle Reports Application (upgrade only) - 12.2.1 [reports] Oracle Reports Application (upgrade only) - 12.2.1 [reports] Oracle Enterprise Manager - 12.2.1.3.0 [em] Oracle Enterprise Manager Restricted JRF - 12.2.1.3.0 [em] Oracle HTTP Server (Collocated) - 12.2.1.3.0 [ohs] Oracle Reports Tools - 12.2.1 [Reports ToolsComponent] Oracle Reports Tools - 12.2.1 [Reports ToolsComponent] Oracle Reports Tools - 12.2.1 [Reports ToolsComponent] Oracle Reports Tools - 12.2.1 [Reports ToolsComponent]	Browse	
Help	< <u>Back</u> <u>Next</u> > <u>Finish</u>	Cancel	

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

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

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

Fusion Middleware Configuration Wizard - Page 3 of 12					-	×
Application Location				R		
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:		bracle_Home/user_projects/domains user_projects/applications/base_dom	ain	Browse	B
Help			<u>Back</u> <u>Next</u> Einis	h 🗌	Cance	el 🛛

3). The Application Location screen appears.

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

	Fusion Middlev	ware Configuration Wizard - I	Page 4 of 1	L2			-	×
Administrator Account					-	R		
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Name Password Confirm Password Must be the same as number or special ch	weblogic	n at least 8 alş	phanumeric cha	aracters w	vith at I	least on	e
Help			< <u>B</u> ack	<u>N</u> ext >	<u>Finish</u>		Cance	el

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.

r	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>Development</u> Utilize boot.properties for username and password, and poll for applications to deploy. <u>Production</u> Require the entry of a username and password, and do not poll for applications to deploy. JDK <u>Oracle HotSpot 1.8.0_161 /home/oracle/ORACLE_SW/Java/jdk1.8.0_161</u> Other JDK Location:	Browse
Help	< <u>Back</u> <u>N</u> ext > <u>Finish</u>	Cancel

5). The Domain Mode and JDK screen appears.

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

	Fusion Middleware Configuration Wizard - Page 6 of 12 _ ×
Database Configuration Type	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Specify AutoConfiguration Options Using: • <u>R</u> CU Data 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: •Oracle's Driver (Thin) for Service connections; Versions: • •O connection Parameters Oconnection URL String Host Name: hpgen9-01 DBMS/Service: suse Port: 1521 Schema Owner: DEV_STB Schema Password:
Help	< Back Next > Finish Cancel

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

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

	Fu	ision Middleware Co	nfiguration \	Vizard - Pa	ge 7 of	12	_ >
JDBC Component Schema					F		
<u>Create Domain</u> <u>Templates</u> <u>Application Location</u> <u>Administrator Account</u> <u>Domain Mode and JDK</u> <u>Database Configuration Type</u> Component Datasources <u>JDBC Test</u> <u>Advanced Configuration</u> <u>Configuration Summary</u>	Ho DB Sc	ndor: Connection Parameters St Name: MS/Service: Chema Owner: Chema Owner: Chema Owner: Chema Owner: Chema Owner: Chema Owner: to Convert to C	Connection P P S Component scher GridLink C C	ort: chema Passwo mas: onvert to RAC (multi dat		onvert
Configuration Progress		Component Schema	DBMS/Service	Host Name	Port	Schema Owner	Schema Passwor
End Of Configuration		LocalSvcTbl Schema	SUSE	hpgen9-01	1521	DEV_STB	
		WLS Schema	SUSE	hpgen9-01	1521	DEV_WLS_RUNTIME	
		OPSS Audit Schema	SUSE	hpgen9-01	1521	DEV_IAU_APPEND	
		OPSS Audit Viewer Sche	SUSE	hpgen9-01	1521	DEV_IAU_VIEWER	
		OPSS Schema	SUSE	hpgen9-01	1521	DEV_OPSS	

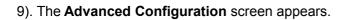
7). The JDBC Component Schema screen appears.

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

y	SPALL PELLINA TAIS	Fusion M	liddleware Configuration Wizard	- Page 8 of 12	_ ×				
	JDBC Component Schema Tes	st							
泉	Create Domain	Status	Component Schema	JDBC Connec	tion URL				
	Templates	 Image: Image: Ima	LocalSvcTbl Schema	jdbc:oracle:thin:@//hpgen	9-01:1521/SUSE				
	Application Location	 Image: Image: Ima	WLS Schema	jdbc:oracle:thin:@//hpgen	9-01:1521/SUSE				
I	Administrator Account	 Image: Image: Ima	OPSS Audit Schema	jdbc:oracle:thin:@//hpgen	9-01:1521/SUSE				
Ĭ		 Image: Image: Ima	OPSS Audit Viewer Schema	jdbc:oracle:thin:@//hpgen	9-01:1521/SUSE				
Ý	Domain Mode and JDK	 Image: Image: Ima	OPSS Schema	jdbc:oracle:thin:@//hpgen	9-01:1521/SUSE				
Ý	Database Configuration Type								
4	Component Datasources								
	JDBC Test								
	Advanced Configuration								
	Configuration Summary								
Ţ	Configuration Progress	<u>T</u> est Se	lected Connections]					
0	End Of Configuration	Connection	Result Log						
		Connection 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-64	213: Test Successful! 213: JDBC connection test was successful. 213: No action required						
	Help			< Back Next > Fini	sh 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 22	_ ×
Advanced Configuration		
	Administration Server Modify Settings Node Manager Configure Node Manager ✓ Iopology Add, Delete or Modify Settings for Managed Servers, Clusters, Virtual Targets and Coherence ✓ System Components Configure and Target System Components Dgmain Frontend Host Capture Configure Domain Frontend Host Deployments and Services Target to Servers or Clusters	
Help	< <u>Back</u> <u>N</u> ext > <u>Finis</u>	h Cancel

Select **Topology** and **System Components**. Click **Next** to continue.

	Fusion Middleware	Configuration Wizard	d - Page 10	of 22		_ ×
Managed Servers						
Create Domain Templates	Clor	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
	WLS_FORMS	All Local Addresses 🔻	9001		Disabled	FORMS-MA
Domain Mode and JDK	WLS_REPORTS	All Local Addresses 💌	9002		Disabled	REPORTS-A
Database Configuration Type						
Component Datasources						
UDBC Test						
Advanced Configuration						
Managed Servers						
Ulusters						
Server Templates						
Dynamic Servers						
Assign Servers to Clusters						
Coherence Clusters						
Machines						
Assign Servers to Machines						
Virtual Targets						
Partitions	* *					
<u>Configuration Summary</u>						
Help			< <u>B</u> ac	k <u>N</u> ext >	Einish	Cancel

10). The Managed Servers screen appears.

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

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

Fusion Middleware Configuration Wizard - Page 11 of 22 –							
Clusters							
Create Domain Templates		Add	X Delete			🔊 Di	s <u>c</u> ard Changes
Application Location		Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS Port	Dynamic Server Groups
Administrator Account		cluster_forms			0	0	Unspecified 💌
Domain Mode and JDK		cluster_reports			0	0	Unspecified 🔻
Database Configuration Type							
Component Datasources							
UDBC Test							
Advanced Configuration	- 14						
Managed Servers	1000						
Clusters							
Server Templates							
Dynamic Servers							
Assign Servers to Clusters							
Coherence Clusters							
w Machines							
Assign Servers to Machines							
Virtual Targets							
Partitions							
<u>Configuration Summary</u>	-						
Help					< <u>B</u> ack N	ext > Einish	Cancel

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

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

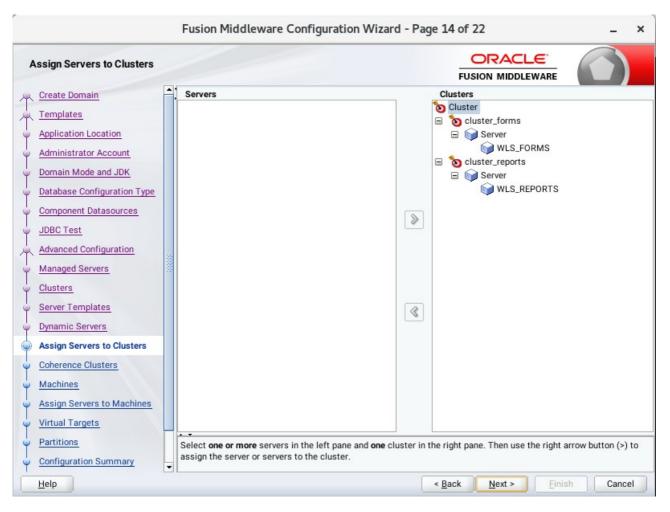
12). Then Server Templates screen appears.

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

	Fu	usion Midd	leware C	Configuration	n Wizard - I	Page 13 of 2	22		_ ×
Dynamic Servers									
Templates								Dis <u>c</u> ard	Changes
Application Location Administrator Account Domain Mode and JDK	с	Cluster Name	Server Name Prefix	Server Template	Dynamic Cluster Size	Machine Name Match Expression	Calculated Machine Names	Calculated Listen Ports	Dynamic Cluster
Database Configuration Type	clu	uster_forms	Disabled	Unspecifi•	Disabled	Disabled			
Component Datasources	clu	uster_reports	Disabled	Unspecifi 🕶	Disabled	Disabled			
Advanced Configuration Managed Servers Clusters Server Templates Dynamic Servers	20202								
Assign Servers to Clusters									
Coherence Clusters									
Machines									
Assign Servers to Machines									
Virtual Targets									
Partitions		•							
Configuration Summary	Ļ								
Help						< Back	Next >	Finish	Cancel

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

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



14). The Assign Servers to Clusters screen appears.

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

Fusion Middleware Configuration Wizard - Page 15 of 22 _ X						
Coherence Clusters	2					
Create Domain Templates	 ▲ ▲ 	Discard Cha	inges			
Application Location	Cluster Name	Cluster Listen Port				
Administrator Account	defaultCoherenceCluster	7574				
Domain Mode and JDK						
Database Configuration Type						
Component Datasources						
UDBC Test						
Advanced Configuration						
Managed Servers						
<u>Clusters</u>						
Server Templates						
Dynamic Servers						
Assign Servers to Clusters						
Coherence Clusters						
<u>Machines</u>						
Assign Servers to Machines						
Virtual Targets						
Partitions						
Configuration Summary						
Help		< <u>Back</u> <u>N</u> ext > <u>Finish</u> C	ancel			

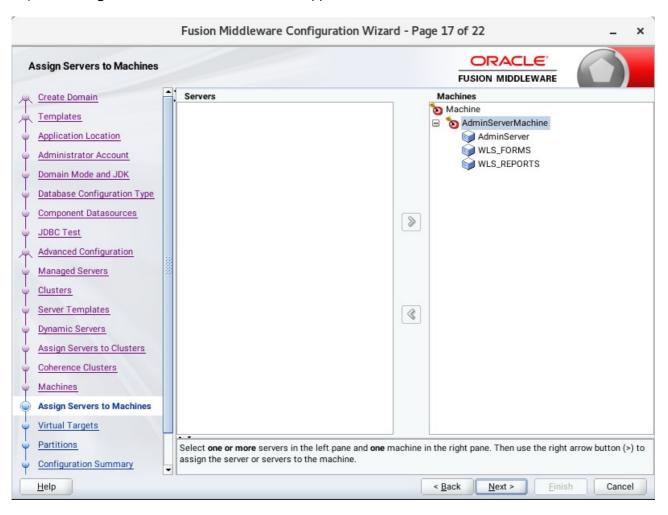
15). The Coherence Clusters screen appears.

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

	Fusion Middlewar	e Configuration Wizard - Pa	age 16 of 22		_ ×
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 Coherence Clusters Machines Assign Servers to Machines Virtual Targets Partitions Configuration Summary	Machine Unix Mach	iine Delete Node Manager L Tocalhost	Listen Address	Node Manager L	rd Changes isten Port 5556
Help			< <u>B</u> ack <u>N</u> ext :	> <u>F</u> inish	Cancel

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

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



17). The Assign Servers to Machines screen appears.

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

		Fusion Middleware	e Configuration W	/izard - Page :	18 of 22		_ ×
Virtual Targets							
Create Domain Templates	-	Add 🗶 ⊵	elete			🔊 Dis <u>c</u> ard	Changes
Application Location Administrator Account		Name	Target	Host Names	URI Prefix	Explicit Port	Port Offset
<u>Administrator Account</u> <u>Domain Mode and JDK</u>		,		,,,			
Database Configuration Type Component Datasources							
u JDBC Test							
Advanced Configuration Managed Servers	10000						
Clusters							
<u>Server Templates</u> <u>Dynamic Servers</u>							
Assign Servers to Clusters							
<u>Coherence Clusters</u> <u>Machines</u>							
<u>Assign Servers to Machines</u> Virtual Targets							
Virtual Targets Partitions		• •					
Configuration Summary	-						
Help				< [<u>Back N</u> ext >	Einish	Cancel

18). The Virtual Targets screen appears.

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

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

	Fusion Mid	dleware Configurat	ion Wizard - Pa	ige 19 of 22		-	×
Partitions							
Create Domain Templates	Add	Nelete			9	Dis <u>c</u> ard Change	25
Application Location			Nam	•			
Administrator Account			Nam	e			
Database Configuration Type Component Datasources							
JDBC Test							
Advanced Configuration							
Clusters Server Templates							
<u>Dynamic Servers</u>							
Assign Servers to Clusters							
Coherence Clusters							
Wachines							
Assign Servers to Machines							
Virtual Targets							
Partitions							_
Configuration Summary							
Help	•		ĺ	< Back Next	> Finis	h Canc	al
Telb				- Dack Next	<u></u> mis	Canc	er

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.

65

		Fusion Middleware (Configuration Wizard - F	Page 20 of 24	_ ×
System Components					
Templates	-	🕂 Add 🗙 Dele	ete		🔊 Dis <u>c</u> ard Changes
Application Location		System Component	Component Type	Restart Interval Seconds	Restart Delay Seconds
Administrator Account		forms1	FORMS	3600	0
Domain Mode and JDK		ohs_1	OHS	3600	0
Database Configuration Type					
<u>Component Datasources</u>					
UDBC Test					
Advanced Configuration					
Managed Servers					
<u>Clusters</u>					
Server Templates					
Dynamic Servers					
Assign Servers to Clusters					
<u>Coherence Clusters</u>					
Wachines					
Assign Servers to Machines					
Virtual Targets					
Partitions					
System Components	-				
Help				< <u>B</u> ack <u>N</u> ext >	Einish 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.

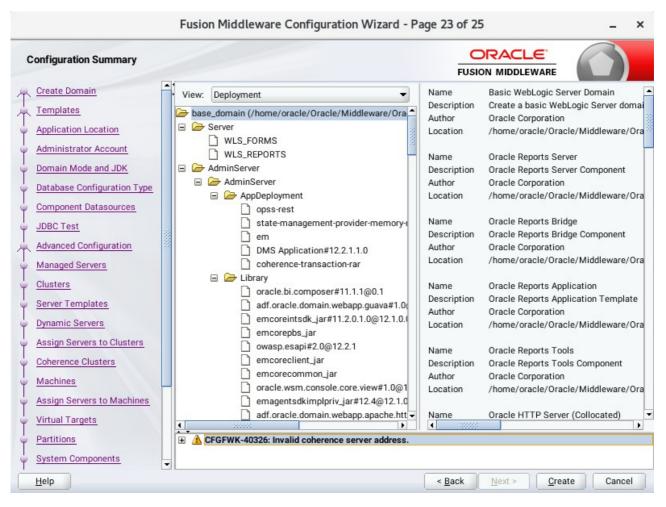
	Fusion Middlew	are Configuration V	/izard - Pa	age 21 of 2		_ ;		
OHS Server						_		
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Managed Servers Clusters Server Templates Dynamic Servers Assign Servers to Clusters Coherence Clusters Machines Assign Servers to Machines Virtual Targets Partitions System Components	System Component Admin Host Admin Port Listen Address Listen Port SSL Listen Port Server Name	ohs_1 127.0.0.1 7779 7777 4443 http://localhost:7777						
Help			[< <u>B</u> ack	<u>N</u> ext >	Einish	Canc	el

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

	Fusion Middleware Configuration Wizard - Pa	ge 22 of 25 _ ×					
Assign System Components to	Machines						
Create Domain		Machines					
Application Location Administrator Account		 Machine AdminServerMachine SystemComponent forms1 ohs_1 					
Database Configuration Type							
Component Datasources							
UNDEC Test							
Advanced Configuration							
Managed Servers							
Ulusters							
Server Templates	8						
Dynamic Servers							
Assign Servers to Clusters							
Coherence Clusters							
Machines							
Assign Servers to Machines							
Virtual Targets							
Partitions	Select one or more system components in the left pane and o						
	button (>) to assign the system component or components to	the machine.					
Help	(< Back Next > Finish Cancel					

22). The Assign System Components screen appears.

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



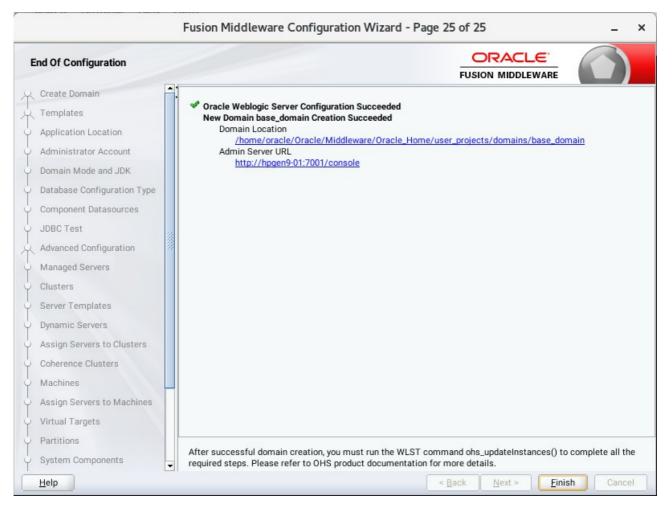
23). The Configuration Summary screen appears.

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

F	sion Middleware Configuration Wizard - Page 24 of 25	_ ×
Configuration Progress		
Create Domain	100%	
Application Location Administrator Account	Copy Unprocessed Artifacts OPSS Processing Security Processing	
Domain Mode and JDK Database Configuration Type	Artifacts Generation String Substitution Post Processing	
Component Datasources JDBC Test Advanced Configuration		
Managed Servers		
Server Templates		
Assign Servers to Clusters Coherence Clusters		
Machines Assign Servers to Machines Virtual Targets		
Partitions		
Help	< Back	nish Cancel

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

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



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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File	Edit	View	Search	Termina	l Tabs	Help											
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fo	rms.p	produc	t.home	=/home/	oracle,	/Oracle/	Middlewa	are/01	acle_Ho	me/form	s -Dora	icle.s	ecurity.jps	.config=/	/home/d	oracl	.e
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Starting the Admin Server, go to the DOMAIN_HOME/bin directory and run ./startWebLogic.sh

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ile E	dit	View	Search	Term	inal	Tabs	Help											
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You know that the administrator server is running when you see the following output:

Server state changed to RUNNING.

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

Confirmed that OPatch succeeded.

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

1). Access to Enterprise Manager Console.

Login Page:

Sign in - Oracle Enterprise Manager - Mozilla Firefox		-	. •	×
Sign in - Oracle Enterpris × +				
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ORACLE ENTERPRISE MANAGER				_
FUSION MIDDLEWARE CONTROL 12c				
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				- 1
Domain Domain_base_domain				- 1
* User Name weblogic				- 1
* Password				- 1
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Oracle Fusion Middleware 12c on SLES 15

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WLS_REPORTS (Oracle WebLogic Server) - Oracle Enterprise Manager - Mozilla Firefox × _ WLS_REPORTS (Oracle ... × + ← ① | http://hpgen9-01:7001/em/faces/as-weblogic-webLogicServerHon 90% | C Q Search ☆自∔ ⋒ ♥ Ξ 🔚 WebLogic Domain 🔻 🛛 weblogic 🔻 ORACLE Enterprise Manager Fusion Middleware Control 12c TWLS_REPORTS 🚡 💌 💌 🖌 Auto Refresh Off • ----📙 WebLogic Server 👻 🕨 Start Up 🗾 Shut Down Jul 30, 2018 7:09:07 PM GMT+08:00 🕥 1 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. Monitoring General Response and Load 0 1.0 Up Since Jul 30, 2018 7:08:44 PM Request Processing Time (ms) Þ 0.8 0.00 0.6 Version 12.2.1.3.0 Requests (per minute) 0.4 State Running 0.2 Deployments 0.0 1.0 Health OK 🗸 0.8 Server Type Configured 0.6 1 Up 0.4 Cluster cluster_reports 0.2 0.0 CPU Usage (%) 1.22 07:01 07:04 07:07 06:55 PM 06:58 July 30 2018 Most Requested . Heap Usage (MB) 350.36 • 📕 Request Processing Time (ms) 🛛 📓 Requests (per minute) Java Vendor Oracle Corporation 0 🕨 Table View Requests Processed Java Version 1.8.0_161 **EJBs** Beans in Use 0 Servlets and JSPs $http://hpgen9-01:7001/em/faces/as-weblogic-webLogicServerHome?type...gic_j2eeserver&target=/Domain_base_domain/WLS_REPORTS\#topperstended_comments$

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

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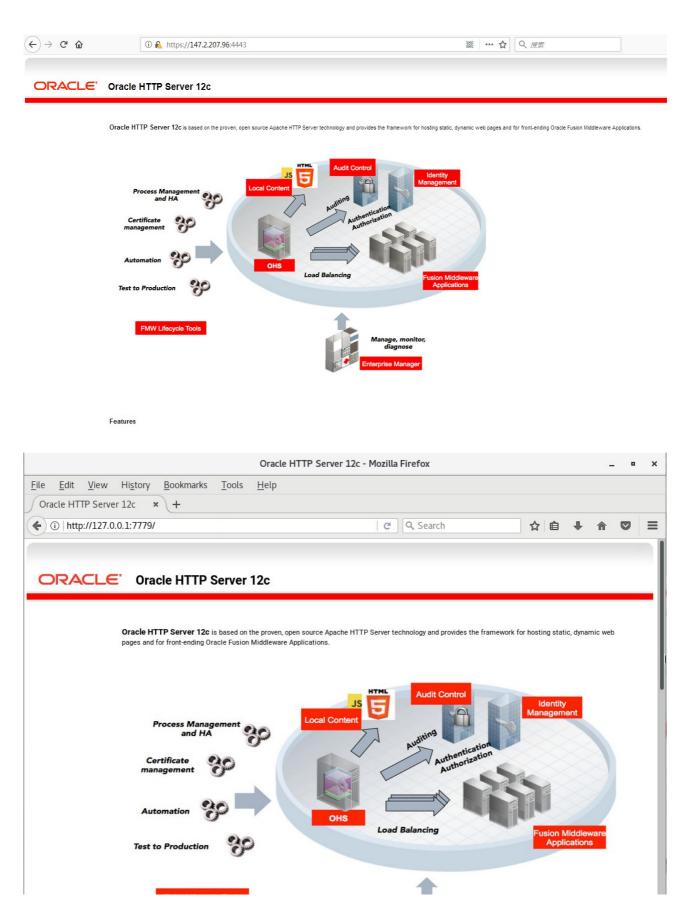
Starting WLS_REPORTS

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Starting ohs1



2). Access to Administration Server Console

Oracle WebLogic Server Administration Console - Mozilla Fir	fox			- •	×
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WebLogic Server Version: 12.2.1.3.0 Copyright (c) 1996,2017, Oracle and/or its affiliates. All rights reserved.					

Login Page as shown below:

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View changes and restarts	Home								
Click the Lock & Edit button to modify, add or	Home Page								
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Lock & Edit	Helpful Tools	General Information							
Release Configuration	Configure applications	Common Administration Task Descriptions							
	Configure GridLink for RAC Data Source	 Read the documentation 							
omain Structure	Configure a Dynamic Cluster	 Ask a question on My Oracle Support 							
base_domain 🕒 - Domain Partitions	Recent Task Status								
-Environment	 Set your console preferences 								
Deployments Services	 Oracle Enterprise Manager 								
Security Realms	Domain Configurations								
 Interoperability Diagnostics 	Domain	Resource Group Templates	Interoperability						
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omain Structure	This p	age summarizes each server that	has been configure	d in the current WebLogic	Server domain.				
ase_domain	52								
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Home Page:

3). Access to Oracle Forms Services.

URL: http://host:port/forms/frmservle	et
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Click Exit to close the test window.

(→ + @ http:// 147.2.207.96 :9001/	forms/frmservlet		+ Q- BCX	🗿 Oracle Fusion Middlewar 🗙
					Grace rusion Middlewar A

4). Access to Oracle Reports Services.

URL: http://host:port/reports/rwservlet Oracle Reports Services - Servlet - Mozilla Firefox • × _ File Edit View History Bookmarks Tools Help Summary of Servers - ba... × / Oracle Reports Services ... × + (i) http://hpgen9-01:9002/reports/rwservlet 90% C Q Search ☆自 ₽ A \bigtriangledown \equiv ORACLE Reports ? Help Oracle Reports Services - Servlet Command Help URL for invoking rwservlet command request : http://yourwebserver/yourservletpath/rwservlet[/command]?[args] Where args are arguments for constructing a Reports Server run request, and optional command is a keyword, modifying request in some way (see list below) For more information about how to setup and use Reports Servlet rwservlet, refer to the product documentation. Valid Reports Servlet Commands In following commands, the name of the Reports Server (server=name) can be omitted rwservlet will try to use the default Reports Server specified in the servlet configuration file. • <u>help</u> showenv showjobs • <u>showmap</u> showmyjobs showjobid killjobid parsequery showauth • <u>delauth</u> getjobid • getserverinfo • killengine

End of Oracle Forms and Reports.

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1. Installing Oracle WebTier 12cR2 OHS

1-1. Prerequisites:

Installation of Oracle WebTier Http Server requires:

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

1-2. Log in to the target system (SLES 15 64-bit OS) as a non-admin user. Download the Oracle WebTier 12cR2 OHS (12.2.1.3.0) from

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

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

1-3. Go to the directory where you downloaded the installation program. Extract the contents of this .zip (fmw_12.2.1.3.0_ohs_linux64_Disk1_1of1.zip) file and launch the installation program by running 'fmw_12.2.1.3.0_ohs_linux64.bin'

For the actual installation, follow the steps below:

1). Welcome page.

	Oracle HTTP Ser	ver Installation - Step 1	of 9			-	×
Welcome							
Welcome Auto Updates Installation Location Installation Type JDK Selection Prerequisite Checks Installation Summary Installation Progress Installation Complete	Use this installer to create Middleware Web Tier softw For more information, see <u>I</u> Context-sensitive online he	Middleware 12c (12.2.1.3.0) Orac a new Oracle Home or extend ar vare, including Oracle HTTP Serv <u>install, Patch, and Upgrade</u> in the lp is available from the <u>H</u> elp butt	cle HTTP Serve n existing Oracl er. Oracle Fusion ton.	er Installer. e home with the	Dracle Fu		
Help			< <u>B</u> ack	<u>N</u> ext >	Einish	Canc	el

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

2). The Auto Updates page appears.

	Oracle HTTP Se	rver Installation - Step	2 of 9	_ ×
Auto Updates				
Welcome Auto Updates Installation Location Installation Type JDK Selection Prerequisite Checks Installation Summary Installation Complete	Skip <u>A</u> uto Updates Select patches from <u>director</u> Location: Search <u>My</u> Oracle Support f Username: Password: Proxy Se	for Updates		Erowse Test Connection
Help			< Back Next >	Einish Cancel

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

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

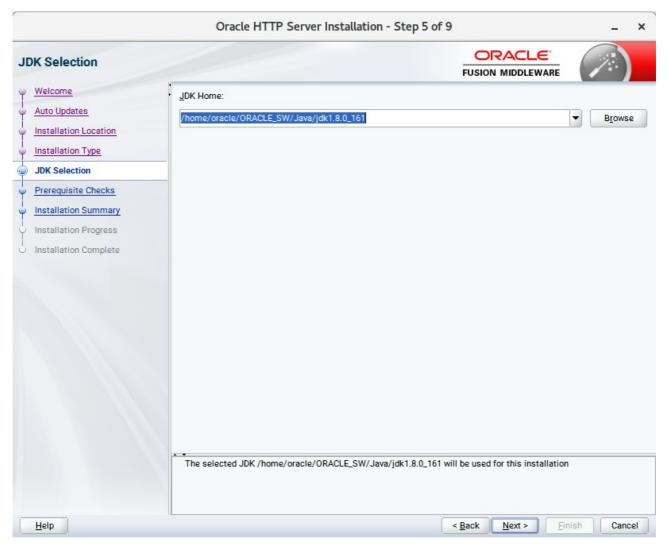
15	stallation Location						
	Welcome	Oracle Home:					
	Auto Updates	/home/oracle/Oracle/Middleware/Oracle_Home Browse					
	Installation Location	Feature Sets Installed At Selected Oracle Home: View					
	Installation Type	Oracle Fusion Middleware 12c Infrastructure 12.2.1.3.0					
	JDK Selection	Core Server					
	Brazaguiaita Chaoka	Core Application Server 12.2.1.3.0					
	Prerequisite Checks	Coherence Product Files 12.2.1.3.0					
	Installation Summary	Web 2.0 HTTP Pub-Sub Server 12.2.1.3.0					
	Installation Progress	WebLogic SCA 12.2.1.3.0					
	Installation Operators	WebLogic Client Jars 12.2.1.3.0					
	Installation Complete	Administrative Tools					
		Administration Console Additional Language Help Files 12.2.1.3.0					
		CIE WLS Config 12.2.1.3.0					
		Enterprise manager 12.2.1.3.0					
		Database Support					
		Third party JDBC Drivers 12.2.1.3.0					
		WebLogic Evaluation Database 12.2.1.3.0					
		Open Source Components					
		Fusion Middleware Maven Support 12.2.1.3.0					
		JRF and Enterprise Manager					
		WLS for FMW 12.2.1.3.0					
		Oracle Automatic Diagnostic Repository Feature Set Group					
		FMW Platform Generic 12.2.1.3.0					
		OPatch 13.9.2.0.0					
		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.					

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

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

Installation Type Standalone HTTP Server (Managed independently of WebLogic server) Installation Location © Galocated HTTP Server (Managed through WebLogic server) JDK Selection © Oracle HTTP Server 12.2.1.3.0 Prerequisite Checks Installation Progress Installation Complete © Oracle Common Configuration Infrastructure CIE CAM Shared Config 12.2.1.3.0 Enterprise manager Plugin for OHS 12.2.1.3.0 Installation Complete Database Client 12.1.0.2.0 OAM WebGate For Oracle HTTP Server 12.2.1.3.0 Enterprise manager Plugin for OHS 12.2.1.3.0
*

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.



5). The JDK Selection page appears.

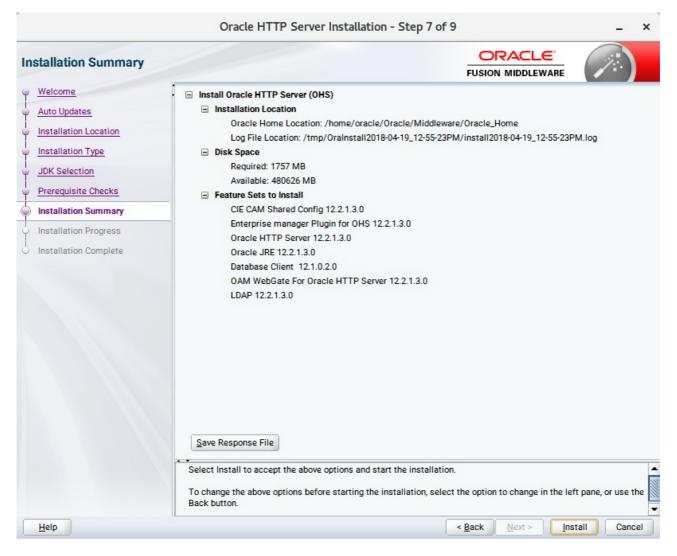
The selected JDK will be used for this installation.Click **Next** to continue.

Oracle HTTP Server Installation - Step 6 of 9 × ORACLE **Prerequisite Checks** FUSION MIDDLEWARE Welcome 100% Auto Updates Installation Location Checking operating system certification Installation Type Δ Checking recommended operating system packages JDK Selection Checking kernel parameters Prereguisite Checks ð Checking physical memory Installation Summary Checking Java version used to launch the installer Installation Progress Installation Complete Ŧ 🖃 🗠 🛕 Checking operating system certification Problem: This Oracle software was not certified on the current operating system at the time it was made generally available. It may have been certified following general availability. Recommendation: Check the Supported System Configurations Guide (http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html) for further details. If your operating system is certified, check the System Requirements Guide (http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-requirements-100147.html) to verify your system configuration. If the system meets the required configuration, press "Next" if you wish to continue. Expected result: One of redhat-7, redhat-6, oracle-6, oracle-7, SuSE-11, SuSE-12 Actual result: (Unknown OS version) ⊕ ... A Checking recommended operating system packages 🗄 🗠 🛕 Checking kernel parameters 🗄 🗝 🖋 Checking Java version used to launch the installer <u>H</u>elp < Back Next > 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.

		Oracle HTTP Server Installation - Step 8 of 9	_ ×
Installation Progress			
V Welcome		100%	
Installation Location Installation Type JDK Selection Prerequisite Checks	> >	Prepare Copy Generating Libraries	
Installation Summary Installation Progress	 ✓ ✓ 	Performing String Substitutions Linking	
Installation Complete	 ✓ ✓ ✓ ✓ 	Setup Saving the inventory Post install scripts	
	View	Messages View Successful Tasks Hardware and Sof Engineered to Work To	
Help		< Back Next > Einis	h 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 - Ste	p 9 of 9			_ ×
Installation Complete					
Welcome Auto Updates Installation Location Installation Type JDK Selection Prerequisite Checks Installation Summary Installation Progress Installation Complete	 Install Oracle HTTP Server (OHS) Installation Location Oracle Home Location: /home/oracle/Oracle/M Log File Location: /home/oracle/Oracle/M Log File Location: /tmp/Oralnstall2018-04-19_1 Feature sets Installed Successfully CIE CAM Shared Config 12.2.1.3.0 Enterprise manager Plugin for OHS 12.2.1.3.0 Oracle HTTP Server 12.2.1.3.0 Oracle JRE 12.2.1.3.0 Database Client 12.1.0.2.0 OAM WebGate For Oracle HTTP Server 12.2.1.3 LDAP 12.2.1.3.0 Pre-Existing Feature Sets OPatch 13.9.2.0.0 	2-55-23PM/install2		IPM.log	
	Next Steps: 1. Create a domain using the Configuration Wizard. 2. Start Node Manager and Domain Servers. See the product installation guide for detailed instruction Oracle HTTP Server (OHS) installation completed succes				
Help	I.	< <u>B</u> ack	<u>N</u> ext >	inish	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.

			8 -
ository Creation Utility	1		
Welcome Create Repository	Specify a unique prefix for all sch schemas later.	emas created in this session, s	so you can easily locate, reference, and manag
Database Connection Details	O Select existing prefix:		
Select Components			
	Oreate new prefix:	DEV	
Schema Passwords		Alpha numeric only. Canno	t start with a number. No special characters.
Map Tablespaces			
Summary	Component		Schema Owner
	□ ✓ Oracle AS Repository		
Completion Summary	■ AS Common Sche		
		structure Services *	DEV_STB
		n Security Services	DEV_OPSS
	User Messagin	g Service	DEV_UMS
	Audit Services	··	DEV_IAU
	Audit Services		DEV_IAU_APPEND
	Audit Services		DEV_IAU_VIEWER
	Metadata Servi		DEV_MDS DEV_WLS
	* Mandatory component. Man	ndatory components cannot be	deselected.

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.

	Fusion Midd	lleware Configuration Wiza	rd - Page 1 of 8	В		-	;
Configuration Type					R		
 Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration 	What do you wan	r domain isting domain n: racle/Oracle/Middleware/Oracl			omain	Β <u>τ</u> οwse	e
Help			< <u>B</u> ack	<u>N</u> ext > <u>Fir</u>	ish	Cance	2

Click Next to continue.

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

	Fusion Middlew	are Configuration Wiza	ard - Page 2 c	of 12		-	×
Templates							
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Filter Templates: Available Templat Basic WebLog Oracle Enterpr Oracle Enterpr Oracle HTTP S Oracle User M Oracle User M Oracle User SC Oracle User SC Oracle WSM F Oracle WSM F Oracle WSM F Oracle Bastrice User Additional States Oracle Domain Use	ic Server Domain - 12.2.1.3.0 [ise Manager - 12.2.1.3.0 [em] ise Manager-Restricted JRF - Gerver (Collocated) - 12.2.1.3.0 Gerver (Restricted JRF) - 12.2. essaging Service Basic - 12.2. AP/JMS Web Services - 12.2. AP/JMS Web Services - 12.2. ssion Service - 12.2.1.0 [oracl olicy Manager - 12.2.1.3 [orac 2.2.1.3.0 [oracle_common] ted JRF - 12.2.1.3.0 [oracle_common]	wiserver] * 12.2.1.3.0 [em] [ohs] 1.3.0 [ohs] 1.3.0 [oracle_com 1.3.0 [oracle_com e_common] le_common] with Extension _ 100	nmon]	d template	Biowse	
Help			< <u>B</u> ack	k <u>N</u> ext > E	inish	Cance	el 🛛

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

	Fusion 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:		Browse	
Help		< <u>B</u> ack <u>N</u> ext > <u>F</u> inish	Cancel	

3). The Application Location screen appears.

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

	Fusion Middlev	ware Configuration Wizard - F	Page 4 of 12	_ ×
Administrator Account				
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Name Password Confirm Password Must be the same as number or special ch	weblogic	n at least 8 alphanumeric charac	ters with at least one
Help			< Back Next >	Einish Cancel

4). The Administrator Account screen appears.

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

y	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	Browse
Help	< Back Next > Finish	Cancel

5). The Domain Mode and JDK screen appears.

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

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

·	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 Driver: *Oracle's Driver (Thin) for Service connections; Versions:* • Connection Parameters Connection <u>URL String</u> 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 Retrieving schema data from database serverOK Binding local schema components with retrieved dataOK Successfully Done. Click *Next* button to continue.
Help	< <u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel

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

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

	Fu	ision Middleware Confi	guration Wiz	ard - Page	/ of 12		-
JDBC Component Schema							
Create Domain Templates	Ver	ndor:	Drive	er:			
Application Location	۲	Connection Parameters) Connection <u>U</u> RI	L String			
Administrator Account	Ho	st Name:					
Domain Mode and JDK	DB	MS/Service:	Port:				
Database Configuration Type	Sci	nema Owner:	Sche	ma Password:			
Advanced Configuration		O Convert to Grid	Link O Conv	ert to RAC multi	i data sou	urce O Don't conv	vert
Configuration Summary	Edi	ts to the data above will affect	all checked row	s in the table be	low.		
Configuration Progress	Edi	Component Schema	DBMS/Service	Host Name	Port	Schema Owner	
Configuration Progress	Edi	Component Schema LocalSvcTbl Schema	DBMS/Service SUSE	Host Name hpgen9-01	Port 1521	DEV_STB	
Configuration Progress	Edi	Component Schema	DBMS/Service	Host Name hpgen9-01 hpgen9-01	Port	DEV_STB DEV_WLS_RUNTIM	
Configuration Progress	Edi	Component Schema LocalSvcTbl Schema WLS Schema	DBMS/Service SUSE SUSE	Host Name hpgen9-01	Port 1521 1521	DEV_STB DEV_WLS_RUNTIM	······
Configuration Summary Configuration Progress End Of Configuration		Component Schema LocalSvcTbl Schema WLS Schema OPSS Audit Schema	DBMS/Service SUSE SUSE SUSE	Host Name hpgen9-01 hpgen9-01 hpgen9-01	Port 1521 1521 1521	DEV_STB DEV_WLS_RUNTIM DEV_IAU_APPEND DEV_IAU_VIEWER	
Configuration Progress		Component Schema LocalSvcTbl Schema WLS Schema OPSS Audit Schema OPSS Audit Viewer Schema	DBMS/Service SUSE SUSE SUSE SUSE	Host Name hpgen9-01 hpgen9-01 hpgen9-01 hpgen9-01	Port 1521 1521 1521 1521 1521	DEV_STB DEV_WLS_RUNTIM DEV_IAU_APPEND DEV_IAU_VIEWER	

7). The JDBC Component Schema screen appears.

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

		Fu	sion M	liddleware Configuration Wizard - I	Page 8 of 12	_ ×	
	JDBC Component Schema Test						
A	Create Domain		Status	Component Schema	JDBC Conne	ction URL	
	Templates		1	LocalSvcTbl Schema	jdbc:oracle:thin:@//hpger	19-01:1521/SUSE	
1	Application Location	-	4	WLS Schema	jdbc:oracle:thin:@//hpger	19-01:1521/SUSE	
T		-	1	OPSS Audit Schema	jdbc:oracle:thin:@//hpger	19-01:1521/SUSE	
Ϋ́	Administrator Account		1	OPSS Audit Viewer Schema	jdbc:oracle:thin:@//hpger	19-01:1521/SUSE	
ψ	Domain Mode and JDK		1	OPSS Schema	jdbc:oracle:thin:@//hpger	19-01:1521/SUSE	
ý	Database Configuration Type						
4	Component Datasources	L 1					
	JDBC Test						
Ť		I .					
T	Advanced Configuration	L					
Ý	Configuration Summary						
ý	Configuration Progress		lest Se	lected Connections Cancel Testing			
6	End Of Configuration	Co	nnection	Result Log			
		Connection 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. CFCFUK 64013: Me apting sequired **					
C	Help				< <u>Back</u> <u>N</u> ext > <u>Fin</u>	ish 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 12				
Advanced Configuration			6)
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	Administration Server Modify Settings Node Manager Configure Node Manager Add, Delete or Modify Settings for Managed Servers, Clusters, Virtual System Components Configure and Target System Components Domain Frontend Host Capture Configure Domain Frontend Host Deployments and Services Target to Servers or Clusters	I Targets and Coherence		
Help	< <u>B</u> ack	<u>N</u> ext > <u>F</u> inish	Ca	ncel

9). The Advanced Configuration screen appears.

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

	Fusion Middleware (Configuration Wizard - P	age 10 of 14	- ×
System Components				
Templates	Add X Dele	te		Discard Changes
Application Location	System Component	Component Type	Restart Interval Seconds	Restart Delay Seconds
Administrator Account	ohs_1	OHS 👻	3600	0
Domain Mode and JDK				
Database Configuration Type				
Component Datasources				
UDBC Test				
Advanced Configuration				
System Components				
<u>Machines</u>				
Configuration Summary				
Configuration Progress				
O End Of Configuration				
Help			< Back Next >	Einish Cancel

10). The System Components screen appears.

Click Add to create a new Oracle HTTP Server instance. Specify '*ohs_1*' in the System Component field, and specify '*OHS*' in the Component Type field. Click Next to continue.

Fusion Middleware Configuration Wizard - Page 11 of 15					_ ×
OHS Server					
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration System Components OHS Server Machines Configuration Summary Configuration Progress End Of Configuration	System Component Admin Host Admin Port Listen Address Listen Port SSL Listen Port Server Name	ohs_1 127.0.0.1 7779 hpgen9-01 7777 4443 http://hpgen9-01:7777			
Help			< <u>B</u> ack	<u>N</u> ext > <u>Fini</u>	sh Cancel

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

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

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

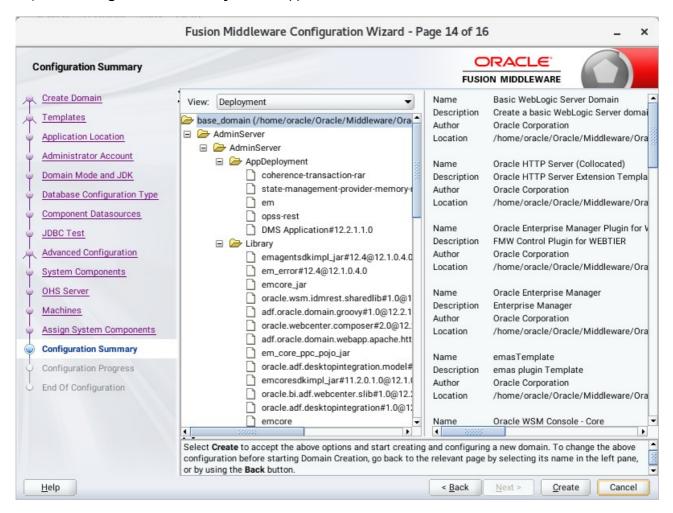
	Fusion Middleware Configur	ation Wizard - Page 12 of 16	_ ×
Machines			
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration System Components OHS Server Machines Assign System Components Configuration Summary Configuration Progress End Of Configuration	Machine Unix Machine	Node Manager Listen Address	Discard Changes Node Manager Listen Port 5556
Help		< Back Nex	t > Finish Cancel

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

Fusion Middleware Configuration Wizard - Page 13 of 16					
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 System Components OHS Server Machines Assign System Components Configuration Summary Configuration Progress End Of Configuration	Select one or more system components in the left pane and obutton (>) to assign the system component or components to				
Help		< <u>Back Next</u> > <u>Finish</u> Cancel			

13). The Assign System Components screen appears.

Select the 'ohs_1' in the System Component list box and click the right arrow. Click **Next** to continue.



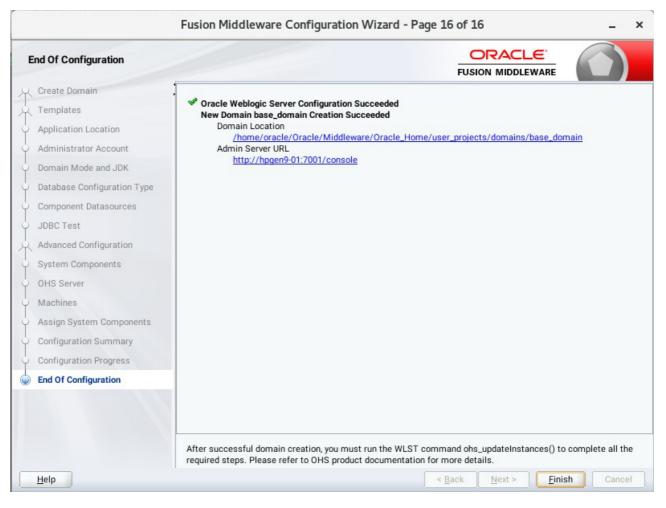
14). The Configuration Summary screen appears.

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

Fusion Middleware Configuration Wizard - Page 15 of 16					_ ×
Configuration Progress					
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration System Components OHS Server Machines Assign System Components Configuration Summary Configuration Progress End Of Configuration	Post Processing	1009			
Help			< <u>B</u> ack Next >	<u> </u>	Cancel

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

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



16). The End of Configuration screen appears.

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

4. Verifying Oracle WebTier 12cR2 OHS Installation and Configuration

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

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

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

		orac	e@hpgen9·	-01:/hom	ne/oracle/O	racle/Middlewar	e/Oracle.	Home	e/user_proje	ects/doma	ins/base	_domain/b	oin	- 1	o x
File E	dit Viev	v Search	Terminal	Tabs	Help										
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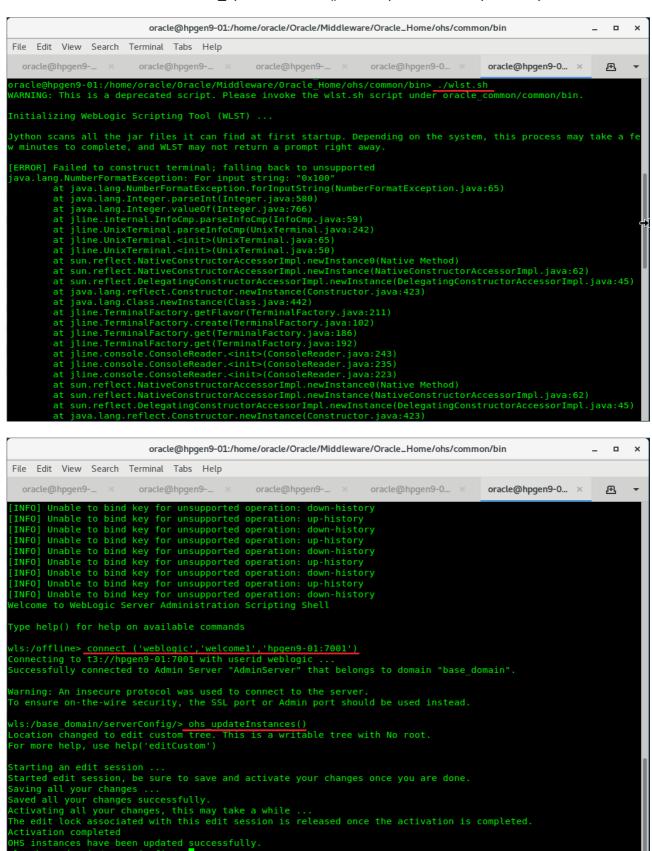
Starting Admin Server, go to the DOMAIN_HOME/bin directory and run ./startWebLogic.sh.

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

Server state changed to RUNNING.

4-3. Run the WLST command ohs_updateInstances() to complete all the required steps.



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

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Starting Oracle HTTP Server (ohs_1)

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-		State	Shutdown	
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OHS Ports Configuration as shown below.

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2). Access to Administration Server Console

			Thu 13	:52	(I))	3
Oracle WebLogic Server	Administration Console - Mozilla Firefox			_	. •	
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	onsole 12c					
		Welcome				
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Home Page:

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() / http://hpgen9-01:700	1/console/console.portal?_nfpb=true	28 🖾 90% C 🔍 Search	☆ 自 ♣ 斋 ♥ ☰
ORACLE WebLogic Server Adr	ninistration Console 12c		Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Hel	lp Q	Welcome, weblogic Connected to: base_domain
View changes and restarts	Home		
Click the Lock & Edit button to modify, add or delete items in this domain.	Home Page		
Lock & Edt Release Configuration Domain Structure Dese_domain Dese	Information and Resources Helpful Tools Configure applications Configure applications Configure a Dynamic Cluster Recent Task Status Set your console preferences Oracle Enterprise Manager Domain Configurations Domain Domain	General Information Common Administration Task Descriptions Read the documentation Ask a question on My Oracle Support Resource Group Templates Resource Group Templates	Interoperability • WTC Servers • Job Correction Pools
How do I	Domain Partitions Domain Partitions Partition Work Managers	Resource Groups • Resource Groups	Diagnostics • Log Files
Search the configuration	Environment	Deployed Resources Deployments	Diagnostic Modules Built-in Diagnostic Modules Diagnostic Images
Use the Change Center Record WLST scripts	Servers Clusters	Services	Request Performance
Change Console preferences Manage Console extensions Monitor servers System Status	Server Templates Migratable Targets Coherence Clusters Machines Virtual Hosts	Messaging JMS Servers Store-and-Forward Agents JMS Modules Path Services	Archives Context SNMP Interceptors
Health of Running Servers as of 1:52 PM	Virtual Targets	 Path Services Bridges 	Charts and Graphs

Viewing the summary of servers:

Applications Places Firefox		Th	u 13:53	€))	Ф
	Summary of Servers - base_domain - WLS Console - Mozilla Firefox		-	•	×
Port Usage: ohs_1 (Oracl ×	Summary of Servers - ba × +				
(i http://hpgen9-01:7001/o	console/console.portal?_nfpb=true&_p 🖾 90% C] 🔍 Search	☆ 自	↓ ⋒		≡
	ministration Console 12c			9	<u> </u>
Change Center	🟦 Home Log Out Preferences 🔛 Record Help	Welcome, weblogi	Connected to:	base_dor	main
View changes and restarts	Home >Summary of Servers				
Click the Lock & Edit button to modify, add or delete items in this domain. Lock & Edit Release Configuration Domain Structure Dase, domain \oplus -Domain Partitions \oplus -Environment \bigoplus -Deployments \bigoplus -Services \bigoplus -Services \bigoplus -Services \bigoplus -Interoperability \oplus -Diagnostics	Summary of Servers Configuration Configuration Control A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration. This page summarizes each server that has been configured in the current WebLogic Server domain.	Showing 11	olofi Previou	is Next	
	Name ↔ Type Cluster Machine State	Health	Listen Port		
	AdminServer(admin) Configured RUNNING	🖋 ок	7001		
How do I	New Clone Delete	Showing 1 t	o 1 of 1 Previou	is Next	
Create Managed Servers Clone servers Delete Managed Servers Delete the Administration Server Start and stop servers View objects in the JNDI tree System Status Health of Running Servers as of 1.53 PM					

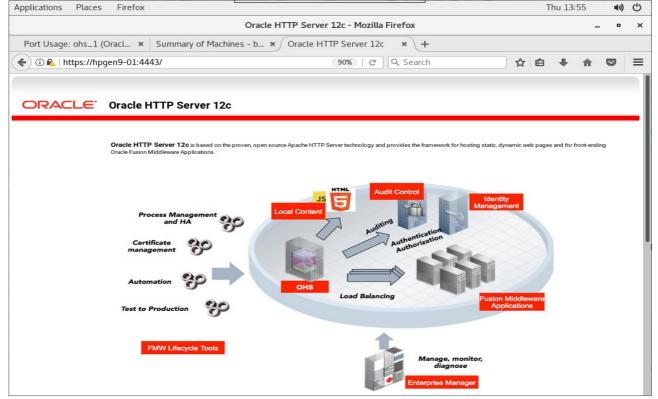
Viewing the summary of Machines:

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Port Usage: ohs_1 (Ora	acl ×	Summary of Machines - b × +						
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	Server Adm	inistration Console 12c					ç	⊇ [
Change Center		🟦 Home Log Out Preferences 🛃 Record Help	Welcom	e, weblog	jic Conne	ected to:ba	se_don	nain
View changes and restarts		Home >Summary of Servers >Summary of Machines						
Click the Lock & Edit button to modify, delete items in this domain.	, add or	Summary of Machines						
Lock & Edit Release Configuration		A machine is the logical representation of the computer that hosts one or more WebLogic Server instances (servers). WebLogi determine the optimum server in a cluster to which certain tasks, such as HTTP session replication, are delegated. The Adminis conjunction with Node Manager to start remote servers. This page displays key information about each machine that has been configured in the current WebLogic Server domain.						
base_domain ⊕-Domain Partitions ⊕-Environment →-Deployments ⊕-Services →-Security Realms		Customize this table Machines 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	
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		SUSE_Machine_1 Machine						
		New Clone Delete		Showing	1 to 1 of 1	Previous	Next	
How do I	=							11
Create and configure machines								- 1
Assign server instances to machine	es							- 1
Clone machines								
Delete machines								
System Status								- 1
Health of Running Servers as of 1:53	РМ							
Failed (0)								

3). Access to Oracle HTTP Server listening address



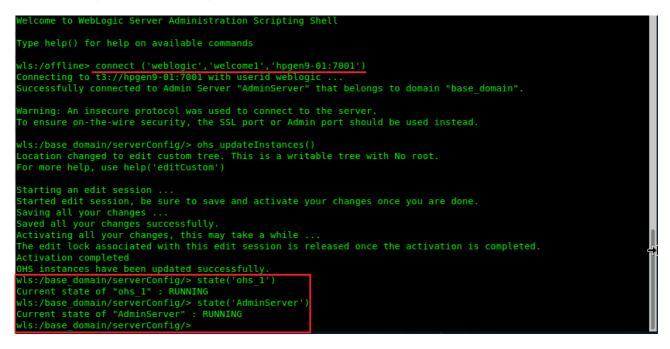
SSL URL: https://host::4443/



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

	Thu 13:56 🕠
Oracle HT	P Server 12c - Mozilla Firefox _ •
Port Usage: ohs_1 (Oracl × Summary of Machines - b ×	Dracle HTTP Server 12c × Oracle HTTP Server 12c × +
• (i) http://127.0.0.1:7779/	🖒 🗘 Search
ORACLE Oracle HTTP Server 12c	
Oracle HTTP Server 12c is based on the proven, open	ource Apache HTTP Server technology and provides the framework for hosting static, dynamic web
pages and for front-ending Oracle Fusion Middleware Appl	cations.
	HTML Audit Control
	JS L
	Management
Process Management	Local Content
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	Prin I
	uditing .
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9	Authentication
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9	Auditing Authentication Authorization
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Certificate	Authorization Authorization
Certificate management	OHS Authentization
Certificate management	Authorization Authorization
Certificate management	OHS Authentization
Certificate management	OHS Load Balancing Fusion Middleware
Certificate management	OHS Load Balancing Fusion Middleware
Certificate management	OHS Load Balancing Fusion Middleware
Certificate management	OHS Load Balancing Fusion Middleware
Certificate management	OHS Load Balancing Fusion Middleware
Certificate management	OHS Load Balancing Fusion Middleware

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



End of Oracle WebTier Http Server.

Oracle WebCenter Portal

1. Installing Oracle WebCenter Portal 12c

1-1. Prerequisites:

Installation of Oracle WebCenter Portal requires:

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

1-1. Log in to the target system (SLES 15 64-bit OS) as a non-admin user. Download the Oracle WebCenter Portal 12c (12.2.1.3.0) from

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

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

1-2. Go to the directory where you downloaded the installation program. Extract the contents of this .zip (fmw_12.2.1.3.0_wcportal_Disk1_1of1.zip) file and launch the installation program by running 'java -jar fmw_12.2.1.3.0_wcportal_.jar '

For the actual installation, follow the steps below:

1). Welcome page.

Welcome Welcome to the Oracle Fusion Middleware 12c (12:21.3.0) WebCenter Portal Installer. Matiouladiates Installation Location Installation Summary Enter proceeding, ensure that you have installed Oracle Fusion Middleware Infrastructure 12c. For more information, see Install. Patch, and Upgrade in the Oracle Fusion Middleware documentation library. Context-sensitive online help is available from the Help button. Installation Complete Copyright © 1996, 2017, Oracle and/or its affiliates. All rights reserved.	Ora	acle Fusion Middleware 12c WebCenter Portal Installa	tion - Ste	p 1 of 8		_ ×
Auto Updates Installation Location Installation Location Installation Type Prerequisite Checks Installation Summary Installation Complete For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware documentation library. Context-sensitive online help is available from the Help button. Context-sensitive online help is available from the Help button.	Welcome					
Installation Location Use this installer to install the WebCenter Portal software into an existing Oracle Home. Installation Type Before proceeding, ensure that you have installed Oracle Fusion Middleware Infrastructure 12c. Prerequisite Checks For more information, see Install. Patch. and Upgrade in the Oracle Fusion Middleware documentation library. Installation Summary Context-sensitive online help is available from the Help button. Installation Complete Context-sensitive online help is available from the Help button.	Welcome	1				
Installation Type Prerequisite Checks Installation Summary Installation Progress Installation Complete Before proceeding, ensure that you have installed Oracle Fusion Middleware Infrastructure 12c. For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware documentation library. Context-sensitive online help is available from the Help button. Context-sensitive online help is available from the Help button. Copyright © 1996, 2017, Oracle and/or its affiliates. All rights reserved.	Auto Updates	Welcome to the Oracle Fusion Middleware 12c (12.2.1.3.0) We	bCenter Por	tal Installer.		
Prerequisite Checks Installation Summary Installation Complete Copyright © 1996, 2017, Oracle and/or its affiliates. All rights reserved.	Installation Location	Use this installer to install the WebCenter Portal software into	an existing	Oracle Home	2.	
Installation Summary Installation Progress Installation Complete Context-sensitive online help is available from the Help button. Context-sensitive online help is available from the Help button. Context-sensitive online help is available from the Help button. Context-sensitive online help is available from the Help button. Context-sensitive online help is available from the Help button.	Installation Type	Before proceeding, ensure that you have installed Oracle Fusi	on Middlewa	re Infrastruct	ture 12c.	
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Copyright © 1996, 2017, Oracle and/or its affiliates. All rights reserved.	Installation Summary					
Copyright © 1996, 2017, Oracle and/or its affiliates. All rights reserved.	Installation Progress	Context-sensitive online help is available from the <u>H</u> elp button				
	Installation Complete					
Help Sack Next Scinich Cancel		Copyright © 1996, 2017, Oracle and/or its affiliates. All rights n	eserved.			
	Help		< Back	Nexts	Finish	Cancel

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

2). The Auto Updates page appears.

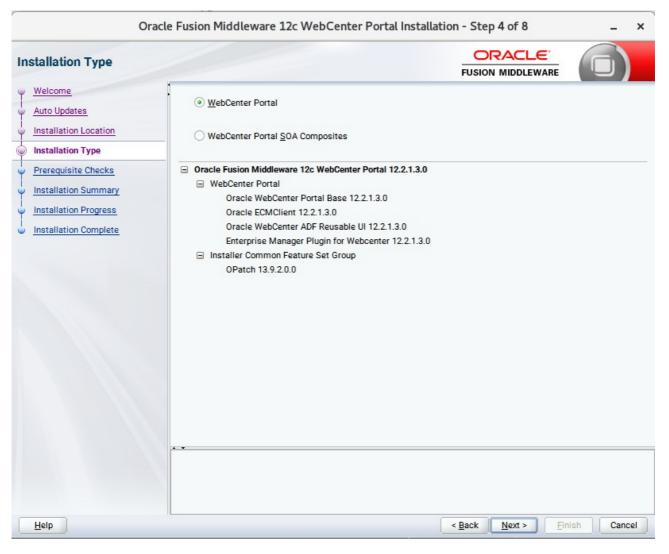
Oracle	Fusion Middlev	ware 12c WebCenter Porta	Installation - Step 2 of 8	_ ×
Auto Updates				
Auto Updates Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Complete	Location:	s from <u>directory</u> acle Support for Updates Proxy Settings		
Help			< <u>B</u> ack <u>N</u> ext >	Einish Cancel

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

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

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

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



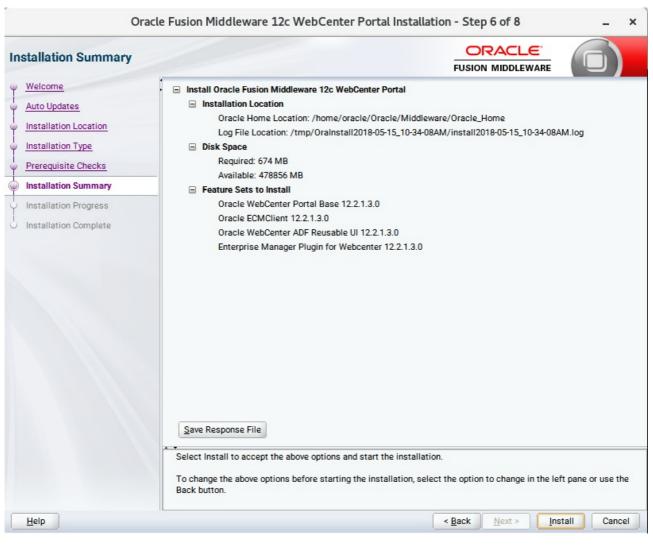
4). The Installation Type page appears.

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

Orac	le Fusion	Middleware 12c WebCenter Portal Installation - Step 5 of 8	×
Prerequisite Checks			
Welcome	1	100%	
<u>Auto Updates</u>		100.4	
Installation Location		Checking operating system certification	
Installation Type	 Image: A start of the start of	Checking Java version used to launch the installer	
Prerequisite Checks	_		
Installation Summary			
Installation Progress			
Installation Complete			
	Pi gr R (t dr tc E	cking operating system certification oblem: This Oracle software was not certified on the current operating system at the time it was made merally available. It may have been certified following general availability. accommendation: Check the Supported System Configurations Guide ttp://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html) for fu tails. If your operating system is certified and no other prerequisite checks have failed, press "Next" if continue. pected result: One of oracle-6, oracle-7, redhat-7, redhat-6, SuSE-11, SuSE-12 ctual result: (Unknown OS version) icking Java version used to launch the installer	urther
Help		< Back Next > Einish Ca	ncel

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.

Orac	le Fusion	Middleware 12c WebCenter Portal Installation - Step 7 of 8	_ ×
Installation Progress			
Welcome Auto Updates	_	100%	
Installation Location Installation Type Prerequisite Checks	4	Prepare Copy	
Installation Summary Installation Progress	v	Generating Libraries Performing String Substitutions	
 Installation Complete 	*	Linking Setup Saving the inventory	
		Post install scripts	
	View	Messages View Successful Tasks	View <u>L</u> og
		Flex	ductivity. tibility. erience.
Help		< Back Next > Fin	ish 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.

Installation Complete	
Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Progress Installation Complete	 Install Oracle Fusion Middleware 12c WebCenter Portal Installation Location Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home Log File Location: /tmp/Oralnstall2018-05-15_10-34-08AM/install2018-05-15_10-34-08AM.log Feature Sets Installed Successfully Oracle WebCenter Portal Base 12.2.1.3.0 Oracle WebCenter ADF Reusable UI 12.2.1.3.0 Enterprise Manager Plugin for Webcenter 12.2.1.3.0 Pre-Existing Feature Sets OPatch 13.9.2.0.0
	Next Step(s):

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.

ify a unique prefix for all sch mas later. Select existing prefix: Create new prefix:	DEV	you can easily locate, reference, and manage t start with a number. No special characters.
© <u>C</u> reate new prefix: Component		
© <u>C</u> reate new prefix: Component		
Component		
	Alpha numeric only. Cannot	
	April Harreno Grig. Gamot	
E Oracle AS Repository		Schema Owner
	Components	
AS Common Schemas		
Common Infra	structure Services *	DEV_STB
		DEV_OPSS
		UMS
		DEV_IAU
		DEV_IAU_APPEND
		DEV_IAU_VIEWER
		DEV_MDS
		DEV_WLS
		DEV WERGENTER
		DEV_WEBCENTER DEV_PORTLET
	टा २	DEV_PORTLET DEV_ACTIVITIES
	Oracle Platform User Messagin Audit Services Audit Services Audit Services Matadata Serv Weblogic Servi WebCenter Portal Portal and Ser	Oracle Platform Security Services User Messaging Service Audit Services Audit Services Append Audit Services Viewer Metadata Services Weblogic Services * WebCenter Portal Orotal and Services Portlet Producers

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:

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

r.	Fusion Middl	leware Configuration Wizard -	Page 1 of 8		_ ×
Configuration Type					
Create Domain	1				
Templates					
<u>Administrator Account</u>					
Domain Mode and JDK					
Advanced Configuration					
Configuration Summary	What do you want	to do?			
Configuration Progress					
U End Of Configuration	Create a new d				
	O <u>U</u> pdate an exis	sting domain			
	Domain Location:	racle/Oracle/Middleware/Oracle_Hon	ne/user_projects/domain	s/base_doma	in B <u>r</u> owse
	<u></u>				
	Create a new doma	ain.			
Help			< <u>B</u> ack <u>N</u> ext >	Einish	Cancel

Click Next to continue.

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 Progress End Of Configuration	Create Domain Using Product Templates: Filter Templates: Type here Include all gelected templates Include all previously applied templates Available Templates Basic WebLogic Server Domain - 12.2.1.3.0 [wlserver] * Oracle WebCenter Portal - 12.2.1.3.0 [wcportal] Oracle WebCenter Portal - 12.2.1.3.0 [wcportal] Oracle WebCenter Portel Producer - 12.2.1.3.0 [wcportal] Oracle WebCenter Portel Producer - 12.2.1.3.0 [wcportal] Oracle WebCenter Analytics Collector - 12.2.1.3.0 [wcportal] Oracle Enterprise Manager - 12.2.1.3.0 [wcportal] Oracle B2B Client - 12.2.1.3.0 [wcportal] Oracle B2B Client - 12.2.1.3.0 [wcportal] Oracle B2B Client - 12.2.1.3.0 [em] Oracle B2B Client - 12.2.1.3.0 [soa] Oracle Jer Messaging Service - 32.2.1.3.0 [oracle_common] Oracle RAS Session Service - 12.2.1.3.0 [oracle_common] Oracle RAS Session Service - 12.2.1.0 [oracle_common] Oracle Widt Delice Manager - 12.2.1.0 [oracle_common] Oracle Widt Delice Manager - 12.2.1.0 [oracle_common]	/se
Help	< <u>Back</u> <u>N</u> ext > <u>Finish</u> 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 - 12.2.1.3.0 [wcportal]

Selecting this template automatically selects the following as dependencies:

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

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

	Fusion 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:		e/Oracle_Home/user_projects/domains ne/user_projects/applications/base_dom	ain B <u>r</u> owse
Help			< Back Next > Einisi	h Cancel

3). The Application Location screen appears.

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

	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 Configuration Summary Configuration Progress End Of Configuration	Name Password Confirm Password Must be the same as number or special ch		
Help		< <u>Back</u> <u>Next</u> > <u>Finish</u> Cance	

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		0	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain Mode Development Utilize boot.properties for username and password, and poll for applications to deploy. Production Require the entry of a username and password, and do not poll for applications to deploy. JDK Oracle HotSpot 1.8.0_161 /home/oracle/ORACLE_SW/Java/jdk1.8.0_161 Other JDK Location: 	Brow	se
<u>H</u> elp	< <u>Back</u> <u>N</u> ext > <u>Finish</u>	Can	cel

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

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

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

6). The Database Configuration Type screen appears.

	Fusion Middleware Configuration Wizard - Page 6 of 12 _ ×
Database Configuration Type	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Specify AutoConfiguration Options Using: • <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 Image: Oracle Image: Oracle's Driver: *Oracle's Driver (Thin) for Service connections; Versions: Image: Oranection Parameters Connection URL String Host Name: hpgen9-01 DBMS/Service: suse Port: 1521 Schema Owner: DEV_STB Schema Owner: DEV_STB Connection Result Log Connection Result Log Connecting to the database serverOK Binding local schema acomponents with retrieved dataOK Successfully Done. ****
Help	< <u>Back</u> <u>N</u> ext > <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.

DBC Component Schema							
Create Domain	Ven	idor:		Driver:			
Templates		0	0.000				
Application Location		Connection Parameters	O Connection	URL String			
Administrator Account	Hos	st Name:					
Domain Mode and JDK	DBN	MS/Service:	F	Port:			
Database Configuration Type							
Component Datasources	Sch	ema Owner:		Schema Password:			
	Ora	cle RAC configuration for	component sche	mas:			
	Ora	-			1 data anno	0.000	
JDBC Test	Ora	cle RAC configuration for O Convert to		mas: Convert to RAC mult	i data sourc	e 🔿 Don't co	onvert
JDBC Test Advanced Configuration		O Convert to	GridLink O	Convert to RAC mult		e 🔿 Don't co	onvert
JDBC Test Advanced Configuration Configuration Summary		-	GridLink O	Convert to RAC mult		e 🔿 Don't co	onvert
JDBC Test Advanced Configuration Configuration Summary		O Convert to	GridLink O	Convert to RAC mult		Schema Owner	
UDBC Test Advanced Configuration Configuration Summary Configuration Progress		Convert to e	GridLink O	Convert to RAC mult	How.		
UDBC Test Advanced Configuration Configuration Summary Configuration Progress		Convert to a conve	GridLink O	Convert to RAC mult rows in the table be Host Name	elow.	Schema Owner	Schema Passv
UDBC Test Advanced Configuration Configuration Summary Configuration Progress		Convert to the data above will an Component Schema ActivitiesDS Schema	GridLink O fect all checked DBMS/Service SUSE	Convert to RAC mult rows in the table be Host Name hpgen9-01	Port 1521	Schema Owner DEV_ACTIVITIE	Schema Passv
UDBC Test Advanced Configuration Configuration Summary Configuration Progress		Convert to the data above will an component Schema ActivitiesDS Schema LocalSvcTbl Schema	GridLink O G fect all checked DBMS/Service SUSE SUSE	Convert to RAC mult rows in the table be Host Name hpgen9-01 hpgen9-01	Port 1521 1521	Schema Owner DEV_ACTIVITIE DEV_STB	Schema Passv
UDBC Test Advanced Configuration Configuration Summary Configuration Progress		Convert to the data above will and Component Schema ActivitiesDS Schema LocalSvcTbl Schema PortletDS Schema	GridLink O G fect all checked DBMS/Service SUSE SUSE SUSE	Convert to RAC mult rows in the table be Host Name hpgen9-01 hpgen9-01 hpgen9-01	elow. Port 1521 1521 1521	Schema Owner DEV_ACTIVITIE DEV_STB DEV_PORTLET	Schema Passv
UDBC Test Advanced Configuration Configuration Summary Configuration Progress		Convert to a s to the data above will af Component Schema ActivitiesDS Schema LocalSvcTbl Schema PortletDS Schema WLS Schema	GridLink O G fect all checked DBMS/Service SUSE SUSE SUSE SUSE SUSE	Convert to RAC mult rows in the table be Host Name hpgen9-01 hpgen9-01 hpgen9-01 hpgen9-01	Port 1521 1521 1521 1521	Schema Owner DEV_ACTIVITIE DEV_STB DEV_PORTLET DEV_WLS_RUN	Schema Passv
UDBC Test Advanced Configuration Configuration Summary Configuration Progress		Convert to a s to the data above will af Component Schema ActivitiesDS Schema LocalSvcTbl Schema PortletDS Schema WLS Schema WebCenterDS Schema	GridLink O G ffect all checked DBMS/Service SUSE SUSE SUSE SUSE SUSE SUSE	Convert to RAC mult rows in the table be Host Name hpgen9-01 hpgen9-01 hpgen9-01 hpgen9-01 hpgen9-01	Port 1521 1521 1521 1521 1521 1521	Schema Owner DEV_ACTIVITIE DEV_STB DEV_PORTLET DEV_WLS_RUN DEV_WEBCENT	Schema Passv
UDBC Test Advanced Configuration Configuration Summary Configuration Progress		Convert to a sto the data above will an Component Schema ActivitiesDS Schema LocalSvcTbl Schema PortletDS Schema WLS Schema WebCenterDS Schema mds-PageletProducerDS	GridLink O G ffect all checked DBMS/Service SUSE SUSE SUSE SUSE SUSE SUSE	Convert to RAC mult rows in the table be Host Name hpgen9-01 hpgen9-01 hpgen9-01 hpgen9-01 hpgen9-01 hpgen9-01	Port 1521 1521 1521 1521 1521 1521	Schema Owner DEV_ACTIVITIE DEV_STB DEV_PORTLET DEV_WLS_RUN DEV_WEBCENT DEV_MDS	Schema Passv
JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration		Convert to of st to the data above will and Component Schema ActivitiesDS Schema LocalSvcTbl Schema PortletDS Schema WLS Schema WebCenterDS Schema mds-PageletProducerDS WebCenter MDS Schema	GridLink O G fect all checked DBMS/Service SUSE SUSE SUSE SUSE SUSE SUSE SUSE	Convert to RAC mult rows in the table be Host Name hpgen9-01 hpgen9-01 hpgen9-01 hpgen9-01 hpgen9-01 hpgen9-01 hpgen9-01	Port 1521 1521 1521 1521 1521 1521 1521 152	Schema Owner DEV_ACTIVITIE DEV_STB DEV_PORTLET DEV_WLS_RUN DEV_WEBCENT DEV_MDS DEV_MDS	Schema Passv

7). The JDBC Component Schema screen appears.

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

	Fusio	n Middleware Configuration	Wizard - Page 8 of 12 –	. >		
JDBC Component Schema Tes	st					
Create Domain	Sta	tus Component Sch	nema JDBC Connection URL			
Templates		ActivitiesDS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUS	ε		
Application Location		LocalSvcTbl Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUS	ε		
	V 4	PortletDS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUS	ε		
Administrator Account	V 4	WLS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUS	ε		
Domain Mode and JDK		WebCenterDS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUS	ε		
Database Configuration Type		mds-PageletProducerDS Schema	a jdbc:oracle:thin:@//hpgen9-01:1521/SUS	ε		
Component Datasources		WebCenter MDS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUS	ε		
JDBC Test		Ø OWSM MDS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUS	ε		
		OPSS Audit Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUS	ε		
Advanced Configuration		OPSS Audit Viewer Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUS	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE		
Configuration Summary	Lat.	A ODGC Cabarra	:			
Configuration Progress	Tes	t Selected Connections	el Testing			
End Of Configuration		tion Result Log				
	Driver=c URL=jdb User=DF Passwo SQL Tes CFGFWI CFGFWI	ent Schema=ActivitiesDS Schema racle.jdbc.OracleDriver c:oracle:thin:@//hpgen9-01:1521/SUS V_ACTIVITIES rd=******** st=select 1 from schema_version_regi <-64213: Test Successful! <-64213: JDBC connection test was su <-64213: No action required.	istry where owner=(select user from dual) and mr_type='ACTIVI	TIES		
Help			< Back Next > Einish Ca	ancel		

8). The JDBC Component Schema Test screen appears.

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

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

y <u>seau u rennan rans</u>	Fusion Middl	eware 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		AdminServer All Local Addresses 7001	
<u>H</u> elp	1	< <u>B</u> ack <u>N</u> ext >	inish 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 C	onfiguration Wizard - Pa	age 11 of 21	_ ×
Node Manager				
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Coherence Clusters Machines Virtual Targets Partitions Configuration Summary	Manual Node Manager Node Manager Credentials Username: Password: Confirm Password:	veblogic	ts/domains/base_domain/nodema	
Configuration Progress Help	number or special character		< Back Next >	inish 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	e Configuration W	/izar	d - Page 12	of 21		_ ×
Managed Servers								
Create Domain Templates	Î	👍 Add 🖹 C	lone X Delete				🔊 Dis <u>c</u>	ard Changes
Application Location		Server Name	Listen Addres	1	Listen Port	Enable SSL	SSL Listen Port	Server Groups
Administrator Account		WC_Portlet	147.2.207.96	•	8889		Disabled	WebCenter
Domain Mode and JDK		WC_Portal	147.2.207.96	-	8888		Disabled	WebCenter 🕶
Database Configuration Type								
<u>Component Datasources</u>								
UDBC Test								
Advanced Configuration								
Administration Server	10000							
Vode Manager								
Managed Servers								
Managed Servers <u>Clusters</u>								
T								
Clusters								
<u>Clusters</u> <u>Server Templates</u>								
<u>Clusters</u> <u>Server Templates</u> <u>Coherence Clusters</u>								
<u>Clusters</u> <u>Server Templates</u> <u>Coherence Clusters</u> <u>Machines</u>								
Clusters Server Templates Coherence Clusters Machines Virtual Targets Partitions								

12). The Managed Servers screen appears.

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

Fusion Middleware Configuration Wizard - Page 13 of 23 _ ×							
Clusters							
☆ Create Domain ☆ Templates		Add	X Delete			🔊 Di	s <u>c</u> ard Changes
Application Location Administrator Account		Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS Port	Dynamic Server Groups
		wcp_cluster_1			0	0	Unspecified 🔻
Domain Mode and JDK Database Configuration Type		wcp_cluster_2			0	0	Unspecified 💌
Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates	:000000;						
Dynamic Servers							
<u>Assign Servers to Clusters</u>							
<u>Coherence Clusters</u>							
<u>Machines</u>							
Virtual Targets							
Partitions	-						
Help					< <u>B</u> ack N	ext > <u>Finish</u>	Cancel

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

On the Clusters screen:

- 1. Click Add.
- Specify *wcp_cluster_1* in the Cluster Name field.
 Leave the Cluster Address field blank.
- 4. Repeat these steps to create one more clusters: *wcp_cluster_2*.

Click **Next** to continue.

-		Fusion Middleware (Configuration Wizard -	Page 14 of 2	23		_ ×
Server Templates							
Create Domain Templates		Add X Dele	ete			🔊 Dis <u>c</u> ar	rd Changes
Application Location Administrator Account		Name	Listen Port	SSL List	ten Port	Enat	ble SSL
Domain Mode and JDK							
<u>Database Configuration Type</u> <u>Component Datasources</u>							
<u>JDBC Test</u> <u>Advanced Configuration</u>	38						
Administration Server	200						
Node Manager Managed Servers							
<u>Clusters</u> Server Templates							
Server Templates Dynamic Servers							
<u>Assign Servers to Clusters</u> <u>Coherence Clusters</u>							
<u>Machines</u>							
<u>Virtual Targets</u> <u>Partitions</u>	Ļ						
Help				< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

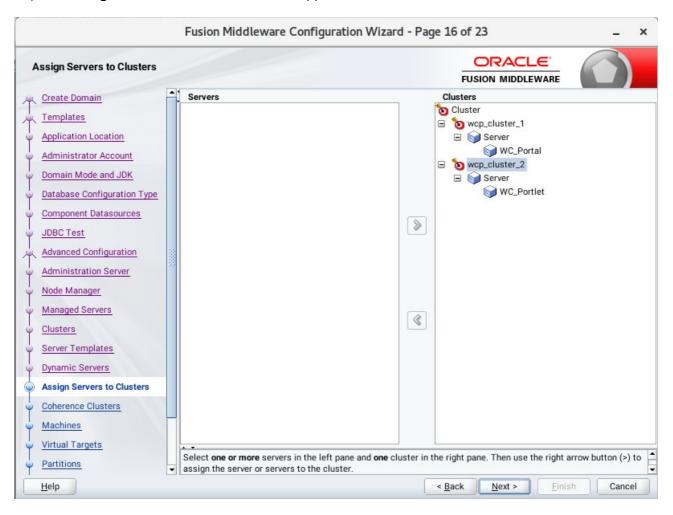
14). The Server templates screep appears.

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

	Fusion Mide	lleware (Configuration	n Wizard - I	Page 15 of 2	23		_ ×
Dynamic Servers							A10	
Templates	•						Dis <u>c</u> ard	l Changes
<u>Application Location</u> <u>Administrator Account</u> Domain Mode and JDK	Cluster Name	Server Name Prefix	Server Template	Dynamic Cluster Size	Machine Name Match Expression	Calculated Machine Names	Calculated Listen Ports	Dynamic Cluster
Database Configuration Type	wcp_cluster_1	Disabled	Unspecifi 🕶	Disabled	Disabled			
Component Datasources	wcp_cluster_2	Disabled	Unspecifi•	Disabled	Disabled			
Advanced Configuration Advinistration Server Node Manager Managed Servers Clusters Server Templates								
Dynamic Servers								
Assign Servers to Clusters								
Coherence Clusters								
<u>Machines</u>								
Virtual Targets								
Partitions	•							
Help					< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

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

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



16). The Assign Servers to Clusters screen appears.

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 repeat* to assign *WC_Portlet* to *wcp_cluster_2*. Click **Next** to continue.

	Fusion Middleware Configuration W	/izard - Page 17 of 23 _ ×
Coherence Clusters		
Create Domain Templates	_]	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		
<u>Administration Server</u>		
Vode Manager		
Managed Servers		
Clusters		
Server Templates		
Dynamic Servers		
Assign Servers to Clusters		
Coherence Clusters		
w Machines		
Virtual Targets		
Partitions	-	
Help		< <u>Back Next > Einish</u> Cancel

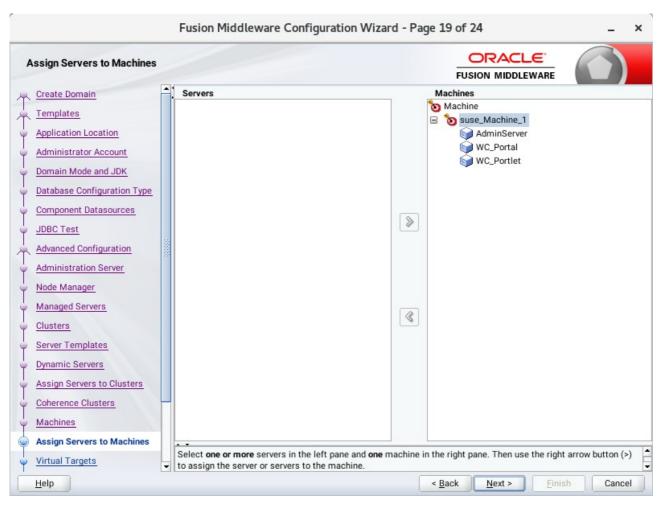
17). The **Coherence Clusters** screen appears.

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

	Fusion Middleware Configu	ration Wizard - Page 18 of 24	_ ×
Machines			
<u>Create Domain</u> <u>Templates</u> <u>Application Location</u>	Machine Unix Machine		Discard Changes
<u>Administrator Account</u> <u>Domain Mode and JDK</u>	Name suse_Machine_1	Node Manager Listen Address	Node Manager Listen Port 5556
Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Dynamic Servers Assign Servers to Clusters Coherence Clusters			
Machines Assign Servers to Machines	• •		
Virtual Targets	•		
Help		< Back Nex	xt > <u>Finish</u> 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.

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

		Fusion Middleware	e Configuration W	/izard - Page	20 of 24		_ ×
Virtual Targets							
Create Domain Templates		- <u>A</u> dd	elete			🔊 Dis <u>c</u> ard	Changes
Application Location Administrator Account		Name	Target	Host Names	URI Prefix	Explicit Port	Port Offset
Domain Mode and JDK							
<u>Database Configuration Type</u> <u>Component Datasources</u>							
JDBC Test Advanced Configuration	1999						
Administration Server							
<u>Node Manager</u> <u>Managed Servers</u>							
<u>Clusters</u> <u>Server Templates</u>							
Dynamic Servers Assign Servers to Clusters							
<u>Coherence Clusters</u>							
<u>Machines</u> <u>Assign Servers to Machines</u>	-	• •					
Virtual Targets	J						
Help				<	Back <u>N</u> ext >	<u>F</u> inish	Cancel

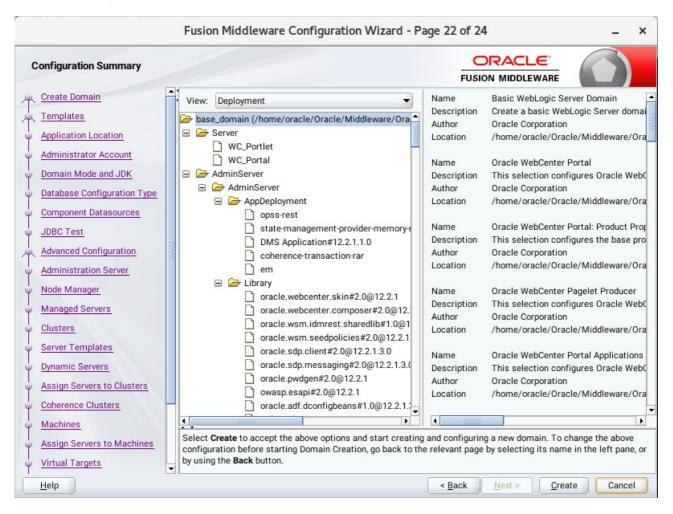
20). The Virtual Targets screep appears.

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

21).	The	Partitions	screep	appears.
------	-----	------------	--------	----------

	Fusion Middleware Configurat	ion Wizard - Page 21 of 24	_ ×
Partitions			
Templates	Add X Delete		🔊 Dis <u>c</u> ard Changes
Application Location		Name	
Administrator Account			
Domain Mode and JDK Database Configuration Type			
Database Configuration Type Component Datasources			
U JDBC Test			
Advanced Configuration			
Administration Server			
<u>Node Manager</u> <u>Managed Servers</u>			
Clusters			
Server Templates			
Dynamic Servers			
Assign Servers to Clusters			
<u>Coherence Clusters</u> <u>Machines</u>			
Assign Servers to Machines	* *		
Virtual Targets	•		
Help		< <u>B</u> ack <u>N</u> ext >	Einish Cancel

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



22). The Configuration Summary screen appears.

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

	Fusion Middleware Configuration Wizard - Page 23 of 24	_ ×
Configuration Progress		
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 Servers to Clusters Coherence Clusters Machines Assign Servers to Machines Virtual Targets	IOD% Image: Copy Unprocessed Artifacts Image: OPSS Processing Image: OWSM Processing	
Help	< Back Next > Finish	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.

	Fusion Middleware Configuration Wizard - Pa	age 24 of 24	_ ×
End Of Configuration			
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Dynamic Servers Coherence Clusters Machines Assign Servers to Machines Virtual Targets	Oracle Weblogic Server Configuration Succeeded New Domain base_domain Creation Succeeded Domain Location <u>/home/oracle/Oracle/Middleware/Oracle_Hom</u> Admin Server URL <u>http://hpgen9-01:7001/console</u>		nain
<u>H</u> elp		< <u>B</u> ack <u>N</u> ext > <u>Finis</u>	sh Cancel

24). The End of Configuration screen appears.

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

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&'

Applications Places Terminal	Tue 11:12	(1))	Ф
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/O × oracle@hpgen9-01:/home/oracle/Or × oracle@hpgen9-01:/home/oracle/Or	le/Or ×	Æ	•
oracle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/ NodeManager.sh > nm.out& [1] 1799			
oracle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/ ng input and redirecting stderr to stdout	bin> nonup	: 1gno	
oracle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/ NODEMGR_HOME is already set to /home/oracle/Oracle/Middleware/Oracle_Home/user_projects/domain: m anager			
CLASSPATH=/home/oracle/ORACLE_SW/Java/jdk1.8.0_161/lib/tools.jar:/home/oracle/Oracle/Middleward	e/Oracle_H	ome/w]	se
' ver/server/lib/weblogic.jar:/home/oracle/Oracle/Middleware/Oracle_Home/wlserver//oracle_comm r	on/modules,	/third	lpa
ty/ant-contrib-1.0b3.jar:/home/oracle/Oracle/Middleware/Oracle_Home/wlserver/modules/features/ n	oracle.wls	.commo	on.
odemanager.jar::/home/oracle/Oracle/Middleware/Oracle_Home/wlserver/:/home/oracle/Oracle/Mid	dleware/0ra	acle_H	lom
/wlserver/modules/features/oracle.wls.common.grizzly.jar + /home/oracle/ORACLE_SW/Java/jdk1.8.0_161/bin/java -server -Xms32m -Xmx200m -Djdk.tls.ephemer: n	alDHKeySize	e=2048	3 -
coherence.home=/home/oracle/Oracle/Middleware/Oracle_Home/wlserver//coherence -Dbea.home=/home	me/oracle/(Oracle	e/M
ddleware/Oracle_Home/wlserver/Doracle.security.jps.config=/home/oracle/Oracle/Middleware/O	racle_Home,	/user_	pr
jects/domains/base_domain/config/fmwconfig/jps-config-jse.xml -Dcommon.components.home=/home/o	racle/0rac	le/Mio	dl
e ware/Oracle_Home/oracle_common -Dopss.version=12.2.1.3 -Dweblogic.RootDirectory=/home/oracle/O r	racle/Midd	leware	e/0
acle_Home/user_projects/domains/base_domain -Djava.system.class.loader=com.oracle.classloader. s	weblogic.La	aunch(la
s sLoader -Djava.security.policy=/home/oracle/0racle/Middleware/0racle_Home/wlserver/server/lib/v	weblogic.po	olicy	- D

Starting the Admin Server, go to the DOMAIN_HOME/bin directory and run ./startWebLogic.sh.

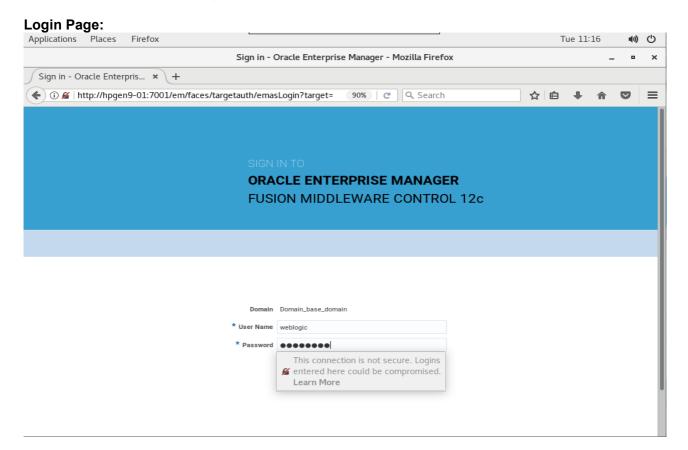
Арр	licatio	ons	Plac	es Te	erminal																					Tue :	11:15	5	щ»)	
				oracle	@hpge	en9-0	01:/hor	ne/orac	le/Or	racle	/Middle	ewar	re/0	Orac	cle_ł	Hom	e/us	ser_	oroje	cts/d	lom	ains/	base	_dor	nain	n/bin		_		×
File	Edit	t Vie	ew	Search	Term	inal	Tabs	Help																						
C	oracle	@hpg	gen9-	01:/ho.	. ×		oracle	@hpger	n9-01	.:/ho.	×		or	acle	e@hj	pgen	19-01	1:/hc)		(oracle	e@h	pgen	9-01	L:/ho	×		Æ	-
								acle C Lf-tun																						
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								-08:00										BEA	-170	0027:		The	ser	ver	ha	s su	cces	sful	lly e	est
								nain l ⊦08:00										DEA	000	-		Com			t a	chan	a o d	to (DMT	
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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.



Home Page:

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	AdminServer(admin)	+		suse_Machine_1	Running	ок	
Deployments	WC_Portal	+	wcp_cluster_1	suse_Machine_1	Shutdown	Unknown	
7 Down 1 Up	WC_Portlet	+	wcp_cluster_2	suse_Machine_1	Shutdown	Unknown	
~	Columns Hidden	n 34				S	ervers 3 of 3

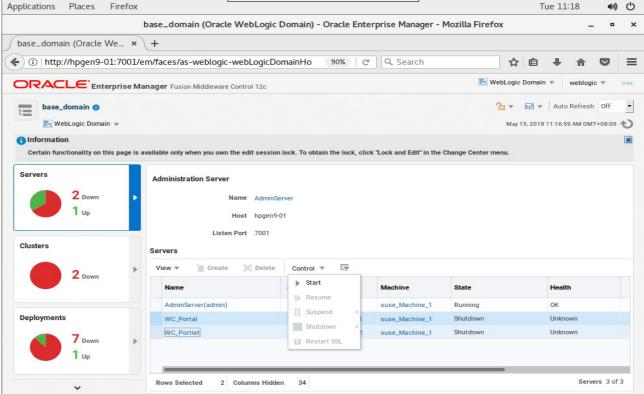
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Clusters 2 Down Deployments	•	Listen Port 7001	Control Status	Cluster wcp_cluster_1	suse_Machine_1 suse_Machine_1	Running Shutdown	OK Unknown	

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.

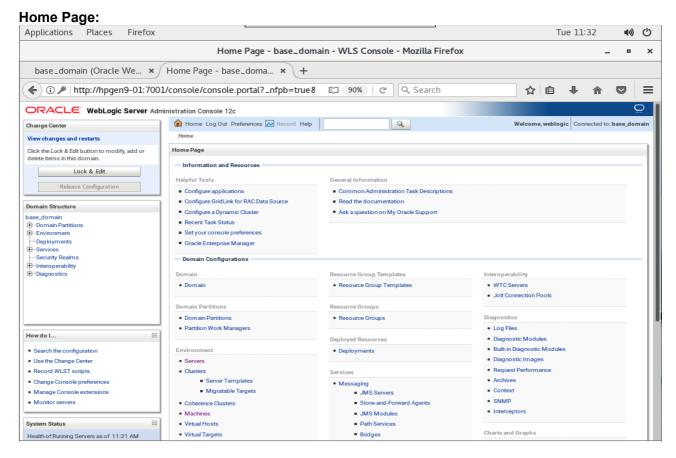
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*	Columns Hidde	en 34				Servers	3 of

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', 'welcome1', '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/> state('WC_Portlet')
Current state of "WC_Portlet" : RUNNING
wls:/base_domain/serverConfig/> [
```

2). Access to Administration Server Console

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Viewing the summary of servers:

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View changes and restarts	Home >Summary of Servers								
Click the Lock & Edit button to modify, add or	Summary of Servers								
delete items in this domain.	Configuration Control								
Lock & Edit									
Release Configuration	A server is an instance of WebLogic Serve	er that runs in its own.	Java Virtual Machine (JVN	 and has its own configurati 	on.				
	This page summarizes each server that ha								
Domain Structure	This page summarizes each server machine	as been conligured in	The current weblogic se	ever domain.					
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-Environment									_
Deployments Services	Customize this table								
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Diagnostics									
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	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		
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Delete the Administration Server									
Start and stop servers									_
View objects in the JNDI tree	1								
System Status	i i i i i i i i i i i i i i i i i i i								
Health of Running Servers as of 11:32 AM									

3). Test Oracle WebCenter Portal Web Service

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

Oracle Fusion Middleware 12c on SLES 15

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

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Copyright © 2013, 2017	, Oracle. All rights re	served.										

C. Application: wsrp-tools (URL: <u>http://host:8889/wsrp-tools</u>) Applications Places Firefox

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DRACLE WebCenter Portal : Portlets								
WSRP Producer Test Page								
Your WSRP Producer Contains the Following Portlets:								
Portlet Name (Minimum WSRP Version)								
Parameter Display Portlet (2.0) Parameter Form Portlet (2.0)								
Container Configuration								
Persistent Store Type: Database Value obtained from environment entry java.comp/env/oracle/portal/wsrp/server/persistentStore								
Data Source Name: java:comp/env/jdbc/portletPrefs								
Using default value. To change it, specify the following environment entry java.comp/env/oracle/portal/wsrp/server/dataSourceName Use Java Object Cache: true								
Value obtained from environment entry java:comp/env/oracle/portal/wsrp/server/enableJavaObjectCache								
Container Version								
Implementation version: 12.2.1.3.0 , Label: WCCORE_12.2.1.3.0_GENERIC_170820.1233.S								
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Oracle Fusion Middleware 12c on SLES 15

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Oracle Fusion Middleware 12c on SLES 15

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

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Collector Default Port	31314			
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Collector Server Name	localhost			
Broadcast Type	Multicast			
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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_131 and later installed.

1-2. Log in to the target system (SLES 15 64-bit OS) as a non-admin user. Download the Oracle SOA Suite 12c (12.2.1.3.0) Quick Start installer zip file from

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

1-3. Go to the directory where you downloaded the installation program. Extract the contents of these .zip ("fmw_12.2.1.3.0_soaqs_Disk1_1of2.zip") files and launch the installation program by running 'java -jar fmw_12.2.1.3.0_soa_quickstart.jar'

For the actual installation, follow the steps below:

1). Welcome page.

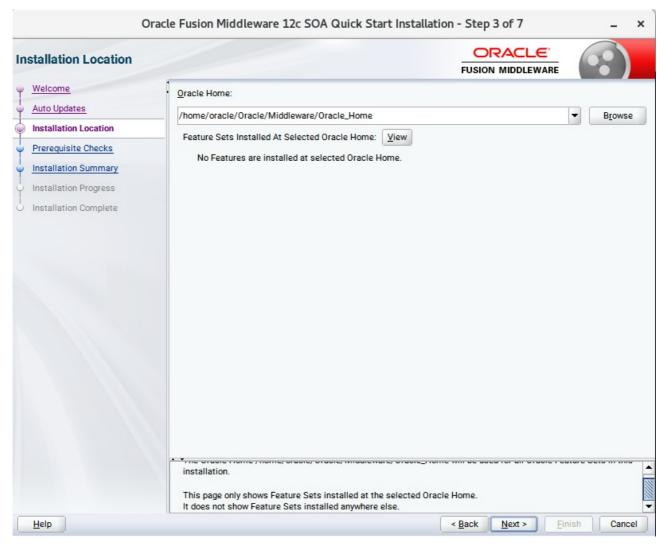
Orac	ele Fusion Middleware 12c SOA Quick Start Installation - Step 1 of 7 _ ×						
Welcome							
Welcome							
Auto Updates	Welcome to the Oracle Fusion Middleware 12c (12.2.1.3.0) SOA Suite Quick Start for Developers Installer.						
Installation Location	Use this installer to create a new Oracle home or to extend an existing Oracle Home that contains 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.						
i Installation Progress	Context-sensitive online help is available from the Help button.						
i Installation Complete							
	Copyright © 1996, 2017, Oracle and/or its affiliates. All rights reserved.						
Help	< Back Next > Finish Cancel						

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

2). The Auto Updates page appears.

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

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



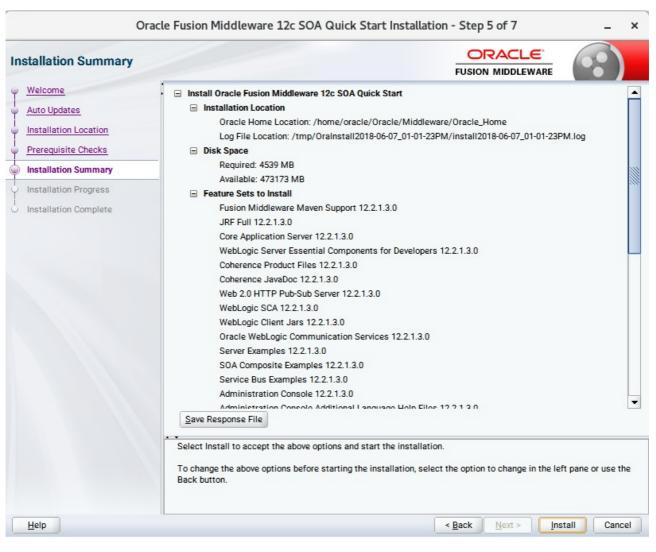
3). The Installation Location page appears.

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

Oracle	e Fusior	Middleware 12c SOA Quick Start Installation - Step 4 of 7 _	×
Prerequisite Checks			
Welcome . Auto Updates .		100%	
Installation Location		Checking operating system certification	
Prerequisite Checks	1	Checking Java version used to launch the installer	
Installation Progress Installation Complete		Image: Constraint of the second of the se	
	P 9 R d to E A	ecking operating system certification roblem: This Oracle software was not certified on the current operating system at the time it was made enerally available. It may have been certified following general availability. ecommendation: Check the Supported System Configurations Guide http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html) for fu etails. If your operating system is certified and no other prerequisite checks have failed, press "Next" if yo o continue. epected result: One of oracle-6, oracle-7, redhat-7, redhat-6, SuSE-11, SuSE-12 ctual result: (Unknown OS version) tecking Java version used to launch the installer	
Help		< <u>Back</u> <u>N</u> ext > <u>Finish</u> Can	cel

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

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



5). The Installation Summary page appears.

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

Oracle	Fusion	Middleware 12c SC	DA Quick St	art Installat	ion - Step 6 of 7	_ ×
Installation Progress						
Y Welcome				100%		
Auto Updates	-			100%		
O Installation Location	v	Prepare				
Prerequisite Checks	1	Сору				
 Installation Summary 	1	Generating Libraries				
Installation Progress	1	Performing String Subst	itutions			
Installation Complete	~	Linking				
	~	Setup				
	1	Saving the inventory				
	~	Post install scripts				
	View	<u>M</u> essages		View Succes	ssful Tasks	View <u>L</u> og
	-	See.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	25	Hardware and So Engineered to Work	
Help					< Back Next > Ein	nish Cancel

6). The Installation Progress page appears.

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

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

Installation Complete	
Welcome Auto Updates Installation Location Prerequisite Checks Installation Progress Installation Complete	 Install Oracle Fusion Middleware 12c SOA Quick Start Installation Location Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home Log File Location: /home/oracle/Oracle/Middleware/Oracle_Home JRF Full 122.13.0 Orace Application Server 122.1.3.0 Orberence Product Files 122.1.3.0 Orberence JavaDoc 122.1.3.0 WebLogic Colent Jars 122.1.3.0 Oracle WebLogic Communication Services 12.2.1.3.0 Savere Examples 12.2.1.3.0 SoA Composite Examples 12.2.1.3.0 SoA Composite Examples 12.2.1.3.0 Administration Console 12.2.1.3.0 Administration Console 12.2.1.3.0 MebLogic Evaluation Database 12.2.1.3.0 MebLogic Evaluation Database 12.2.1.3.0 MebLogic Evaluation Database 12.2.1.3.0 MetbLogic Evaluation Database 12.2.1.3.0 MetbLogi

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.

	Repository Crea	ation Utility - Step 4 of	8 –
epository Creation Utility			
Welcome Create Repository	Specify a unique prefix for all sch schemas later.	nemas created in this session, s	o you can easily locate, reference, and manage t
Database Connection Details	Select existing prefix:		
Select Components	Oreate new prefix:	DEV	
Schema Passwords			t start with a number. No special characters.
Map Tablespaces		Alpha numeric only. Ganno	i atari with a number. No apecial charactera.
Conservation of the second	Component		Schema Owner
Summary	□ ✓ Oracle AS Repository	Components	
Completion Summary	■ AS Common Schemas		
	Common Infra	astructure Services *	DEV_STB
	✓ Oracle Platform	m Security Services	DEV_OPSS
	✓ Oracle Enterpr	ise Scheduler	DEV_ESS
	User Messagin	ng Service	DEV_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
	SOA Suite		
	SOA Infrastruc	ture	DEV_SOAINFRA

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:

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

	Fusion Midd	leware Configuration V	Vizard - Page 1 of	8		-	×
Configuration Type							
Create Domain	1						
Templates							
Administrator Account							
Domain Mode and JDK							
Advanced Configuration							
<u>Configuration Summary</u>	What do you want	t to do?					
Configuration Progress	Create a new	expanded domain					
O End Of Configuration		compact domain					
	Update an exist	sting domain					
	Domain Location:	xacle/Oracle/Middleware/0	Dracle_Home/user_proje	cts/domains/base	e_domain	B <u>r</u> ows	e
		ain containing only a single se itional Managed Servers and c		Server). This doma	ain type can	not be sc	aled
Help			< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Canc	el

Click Next to continue.

2). The Templates screen appears.

	Fusion Middleware Configuration Wizard - Page 2 of 11	_ ×
Templates		
Create Domain Completes High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Create Domain Using Product Templates: Filter Templates:	■ ■ ■ ■ ■ ■ ■
Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> ini	sh Cancel

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

• Oracle SOA Suite – 12.2.1.3.0[soa]

Selecting this template automatically selects the following as dependencies:

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

Selecting this template automatically selects the following as a dependency:

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

Click **Next** to continue.

3). The High Availability Options screen appears.

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

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

	Fusion Middlew	are Configuration Wizard - P	age 4 of 12		-	×
Application Location				R		
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Keystore Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain name: Domain location: Application location:	base_domain /home/oracle/Oracle/Middleware/O Oracle/Middleware/Oracle_Home/u	racle_Home/user_projects/domains ser_projects/applications/base_dom		Browse	8
Help			< <u>B</u> ack <u>N</u> ext > <u>F</u> inis	h	Cance	±1

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

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

	Fusion Middlev	vare Configuration Wizard - Page 5 of 12	-	×
Administrator Account				
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	Name Password Confirm Password Must be the same as number or special ch	weblogic the password. Password must contain at least 8 alphanumeric characters with a aracter.	It least on	le
Help		< <u>Back</u> <u>Next</u> > <u>Finish</u>	Cance	el

5). The Administrator Account screen appears.

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

	Fusion Middleware Configuration Wizard - Page 6 of 12 _	×
Domain Mode and JDK		
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Keystore Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain Mode Development Utilize boot.properties for username and password, and poll for applications to deploy. Droduction Require the entry of a username and password, and do not poll for applications to deploy. JDK @ Oracle HotSpot 1.8.0_161 /home/oracle/ORACLE_SW/Java/jdk1.8.0_161 Other JDK Location: Bgo 	wse
Help	< Back Next > Finish Ca	ncel

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

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

	Fusion Middleware Configuration Wizard - Page 7 of 14 _ ×
Database Configuration Type	
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test	Specify AutoConfiguration Options Using: • <u>R</u> CU Data 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 <u>URL</u> String Host Name: hpgen9-01
Keystore Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	DBMS/Service: suse Port: 1521 Schema Owner: DEV_STB Schema Password: Get RCU Configuration Cancel Connection Result Log Connection Result Log
Help	Connecting to the database serverOK Retrieving schema data from database serverOK Binding local schema components with retrieved dataOK Successfully Done. Click *Next* button to continue.

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

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

		Fu	sion Middleware Co	onfiguratio	n Wizard - F	Page 8	of 14	_ ×
J	DBC Component Schema							_
个	Create Domain	Ver	idor:		Driver:			
*	Templates			0.0				
	High Availability Options		Connection Parameters	O Connect	tion <u>U</u> RL String			
4	Application Location	Hos	st Name:					
ų	Administrator Account	DB	MS/Service:		Port:			
ų	Domain Mode and JDK	Sch	iema Owner:		Schema Pass	word:		
4	Database Configuration Type							
6	Component Datasources	Ora	cle RAC configuration for	component s	chemas:			
J	JDBC Test		O Convert to (GridLink (Convert to RA	C multi (data source 🔿 Don	't convert
4	Keystore	Edit	ts to the data above will af	fect all check	ed rows in the t	able belo	ow.	
*	Advanced Configuration		Component Schema	DBMS/Ser	Host Name	Port	Schema Owner	Schema Password
ų	Configuration Summary		SOA EDN (XA)	SUSE	hpgen9-01	1521	DEV_SOAINFRA	
4	Configuration Progress		SOA EDN (Local)	SUSE	hpgen9-01	1521	DEV_SOAINFRA	
5	End Of Configuration		ESS Schema	SUSE	hpgen9-01	1521	DEV_ESS	
			LocalSvcTbl Schema	SUSE	hpgen9-01	1521	DEV_STB	· ²
			User Messaging Service	SUSE	hpgen9-01	1521	DEV_UMS	
			SOA (XA)	SUSE	hpgen9-01	1521	DEV_SOAINFRA	
			SOA (Local)	SUSE	hpgen9-01	1521	DEV_SOAINFRA	
			WLS Schema	SUSE	hpgen9-01	1521	DEV_WLS_RUNTIME	
			ESS MDS Schema	SUSE	hpgen9-01	1521	DEV_MDS	
	<u>H</u> elp					< <u>B</u> a	ck <u>N</u> ext >	Einish Cancel

8). The JDBC Component Schema screen appears.

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

		Fu	sion M	liddleware Configuration Wizard - Pa	age 9 of 14 _ ×
J	DBC Component Schema Tes	-			
釆	Create Domain		Status	Component Schema	JDBC Connection URL
	Templates		1	SOA EDN (XA)	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE
1	High Availability Options		1	SOA EDN (Local)	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE
T			1	ESS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE
Ť	Application Location		1	LocalSvcTbl Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE
Ý	Administrator Account		1	User Messaging Service	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE
ý	Domain Mode and JDK		1	SOA (XA)	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE
6	Database Configuration Type		1	SOA (Local)	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE
1	Component Datasources		1	WLS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE
I			1	ESS MDS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE
9	JDBC Test		1	OWSM MDS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE
Ý	Keystore		de	SUV WDS	idbe:oracle:thin:@//hogen0-01:1521/SUSE
*	Advanced Configuration		<u>T</u> est Se	lected Connections	
1	Configuration Summary				
	Configuration Progress			Result Log Schema=SOA EDN (XA)	
Ť	-			e.idbc.xa.client.OracleXADataSource	
0	End Of Configuration			acle:thin:@//hpgen9-01:1521/SUSE	
				OAINFRA	
			Test=IS		
		050			
				213: Test Successful! 213: JDBC connection test was successful.	
		CFG		213: No action required.	
		1		000000	
	<u>H</u> elp			[< Back Next > Finish Cancel

9). The JDBC Component Schema Test screen appears.

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

han di Kabudan ng Kabudatin ng Kabu	Fusion Middle	ware Configuration Wizard - I	Page 10 of 14	_ ×
Keystore				
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources	Store Key Name	ums/apns	Trusted Certificate	Dis <u>c</u> ard Changes
UDBC Test				
Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Alias	Private Key	Password	Identity Certificate
Help			< Back Nex	t > <u>Finish</u> Cancel

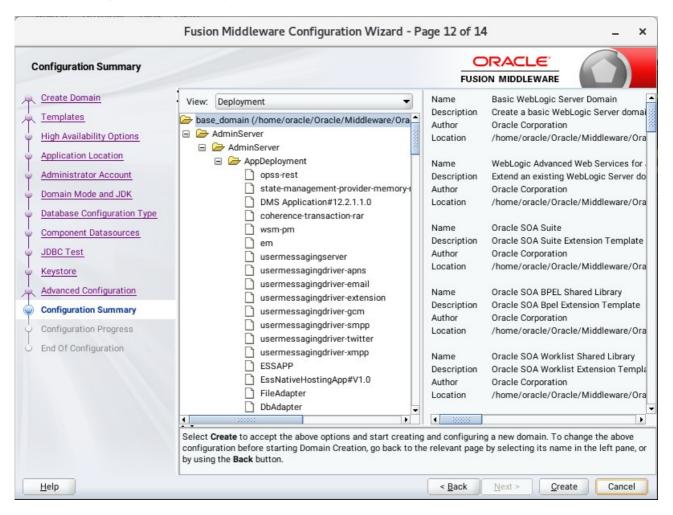
10). The **Keystore** screen appears.

Accept the defaults and click Next to continue.

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

11). The Advanced Configuration screen appears.

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



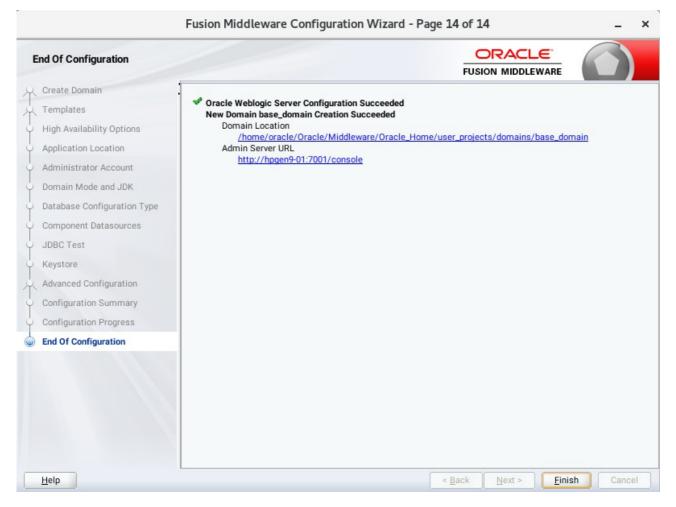
12). The Configuration Summary screen appears.

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

F	sion Middleware Configuration Wizard - Page 13 of 14	_ ×
Configuration Progress		
R Create Domain		
Templates	100%	
🖓 High Availability Options 🛛 🧹	Copy Unprocessed Artifacts	
Application Location	OPSS Processing	
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V Keystore		
Advanced Configuration		
Configuration Summary		
Configuration Progress		
End Of Configuration		
Help	< Back Next >	sh 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.

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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.

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2). Access to Administration Server Console

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WebLogic Server Version: 12.2.1.3.0 Copyright (c) 1996,2017, Oracle and/or its affiliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.		

Login Page as shown below:

Home Page:

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Domain Structure	Helpful Tools	General Information	
base_domain	Configure applications	 Common Administration Task Descriptions 	
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Deployments	Configure a Dynamic Cluster Recent Task Status	 Ask a question on My Oracle Support 	
E-Services	Recent Task Status Set your console preferences		
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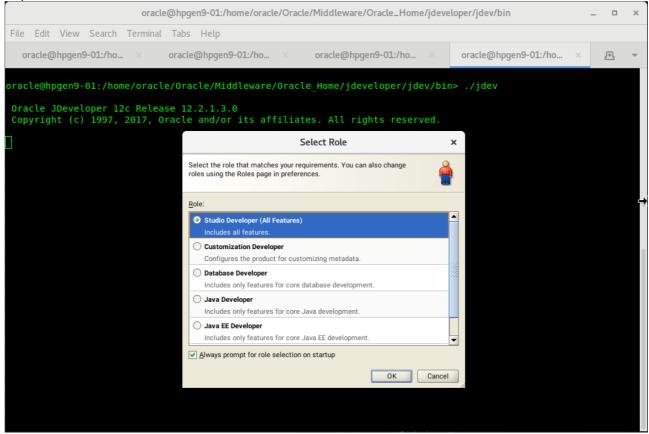
Viewing the summary of servers:

3). Connecting JDeveloper to the Compact Domain.

Launch Oracle JDeveloper with the appropriate command.

Follow these steps:

a1). Select Role.



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.

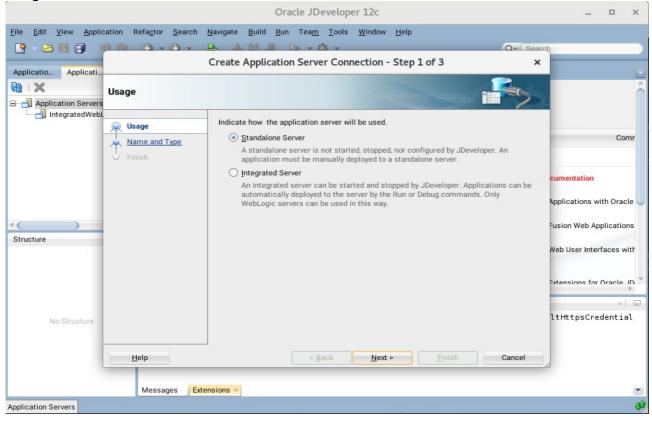
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a3). Right-click on **Application Servers** in the Application Server Navigator. Select **New Application Server** from the drop-down menu to launch the **Create Application Server Connection** wizard.

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

Usage screen.



Name and Type screen.

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Authentication screen.

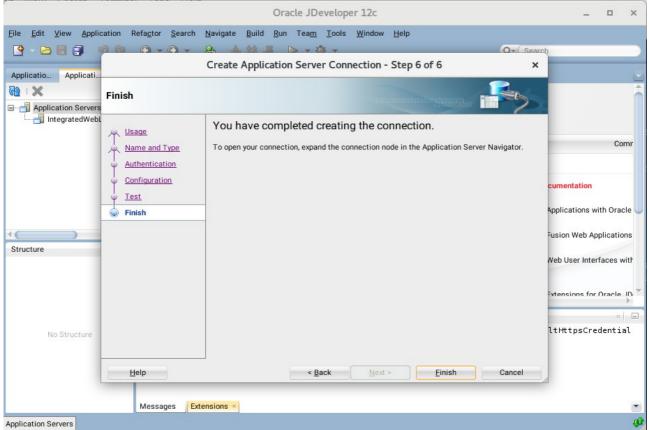
Configuration screen.

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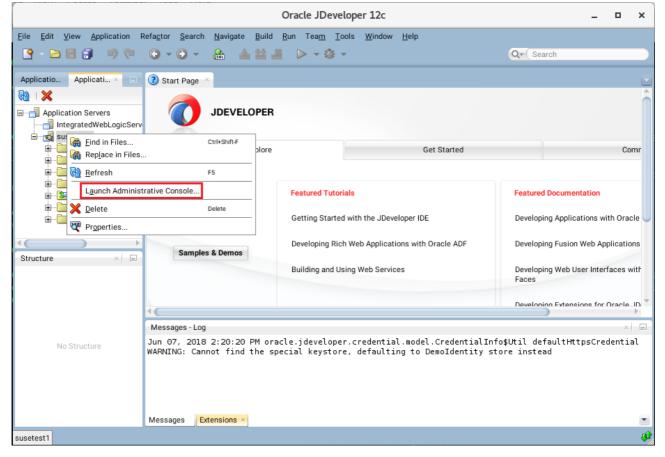
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Test screen.

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**.



Oracle WebLogic Server Administration Console -	• Mozilla Firefox			- "	×
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	Username:	ne WebLogic Server do	••		
eblogic Server Version: 122.130	Username:	ne WebLogic Server do	••	j	

Log into your administrative console.

Log in successfully.

	Home Page - base_do	main - WLS Console - Mozilla Firefo	DX _ P
🖸 EM Express 🗴 base_o	domain (Or 🗙 SOA Composer	× BPM Worklist × Summ	mary of Serv × Home Page - bas × +
A A bttp://baaaa0.01:700	1/semale (semale sentel2) of shot the	8 🖸 90% C Q Search	
🗲 🛈 🎤 http://hpgen9-01:700	1/console/console.portal?_nfpb=true	28 🗊 90% C 🔍 Search	☆ 自 ♣ 斋 ♥ 目
DRACLE WebLogic Server Adr	ninistration Console 12c		Q
Change Center	👔 Home Log Out Preferences 🔊 Record He	P	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		
Domain Structure	Helpful Tools	General Information	
ase_domain D-Domain Partitions D-Environment Deployments D-Services - Security Realms D-Interoperability D-Diagnostics	Configure applications Configure GridLink for RAC Data Source Configure a Dynamic Cluster Recent Task Status Set your console preferences Oracle Enterprise Manager Domain Configurations	Common Administration Task Descriptions Read the documentation Ask a question on My Oracle Support	
	Domain	Resource Group Templates	Interoperability
	• Domain	Resource Group Templates	WTC Servers Jolt Connection Pools
	Domain Partitions	Resource Groups	
How do I 😑	Domain Partitions	Resource Groups	Diagnostics
 Search the configuration 	Partition Work Managers		Log Files
Use the Change Center		Deployed Resources	Diagnostic Modules
Record WLST scripts Change Console preferences	Environment	Deployments	Built-in Diagnostic Modules Diagnostic Images
Manage Console extensions	Servers Clusters		Request Performance
Monitor servers	Server Templates	Services	Archives
	 Migratable Targets 	 Messaging JMS Servers 	Context
		 Store-and-Forward Agents 	SNMP
System Status	 Coherence Clusters 		
	Coherence Clusters Machines	 JMS Modules 	Interceptors
System Status Health of Running Servers as of 2:26 PM Failed (0)			Interceptors

End of Oracle SOA Suite.

oracle Access Manager

1. Installing Oracle Identity and Access Management 12cPS3 software

1-1. Prerequisites:

Installation of Oracle Identity and Access management requires:

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

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

SQL> show parameter open_cursors;						
NAME		TYPE	VALUE			
open_cursors SQL> alter system set ope	en_cursors=]	integer L600 scope=sp				
System altered.						
SQL> shutdown immediate; Database closed. Database dismounted. ORACLE instance shut down SQL> startup ORACLE instance started. Total System Global Area Fixed Size Variable Size Database Butfore	2.0200E+10 19247928 4362079432	bytes bytes				
Database Buffers Redo Buffers Database mounted. Database opened. SQL> show parameter open_	47857664	bytes bytes				
NAME		TYPE	VALUE			
open_cursors SQL> []		integer	1600			

2). Oracle JDK 1.8.0_131 and later installed.

1-2. Log in to the target system (SLES 15 64-bit OS) as a non-admin user. Download the Oracle Identity and Access Management 12cPS3 (12.2.1.3.0) generic installer .zip file from http://www.oracle.com/technetwork/indexes/downloads/index.html#middleware.

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

1-3. Go to the directory where you downloaded the installation program. Extract the contents of these .zip ("fmw_12.2.1.3.0_idmqs_Disk1_1of2.zip" and "fmw_12.2.1.3.0_idmqs_Disk1_2of2.zip") files and launch the installation program by running 'java -jar fmw_12.2.1.3.0_idmquickstart.jar'

For the actual installation, follow the steps below:

1). Welcome page appears.

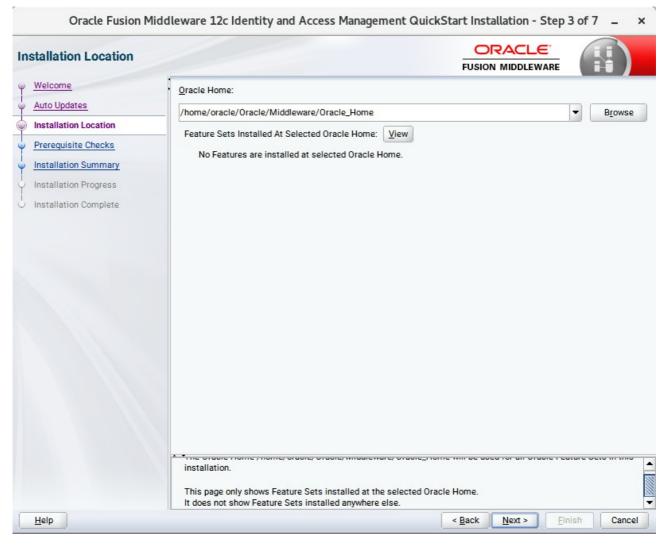
0	racle Fusion Middle	eware 12c Identity and Access Management QuickStart Installation - Step 1 of 7 🚊 🗙
Welcome		
Welcome	:	
Auto Update	es	Welcome to the Oracle Fusion Middleware 12c (12.2.1.3.0) IDM Suite Quick Start Installer.
	Location	Use this installer to create a new Oracle home that contains everything you need to manage privileges and protect applications with the Oracle IDM Suite software for production or evaluation.
Prerequisit	e Checks	
	Summary	For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware documentation library.
	Progress	Context-sensitive online help is available from the Help button.
Unstallation	n Complete	
		Copyright (c) 2010, 2017, Oracle and/or its affiliates. All rights reserved.
Help		< Back Next > Finish Cancel

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

Oracle Fusion Mid	Idleware 12c Identity and Access Manageme	ent QuickStart Installation - Step 2 of 7 🚊 🗙 🗙
Auto Updates		
Welcome Auto Updates Installation Location 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	FUSION MIDDLEWARE Brgwse Image: Imag
Help		< <u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel

2). The Auto Updates page appears.

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



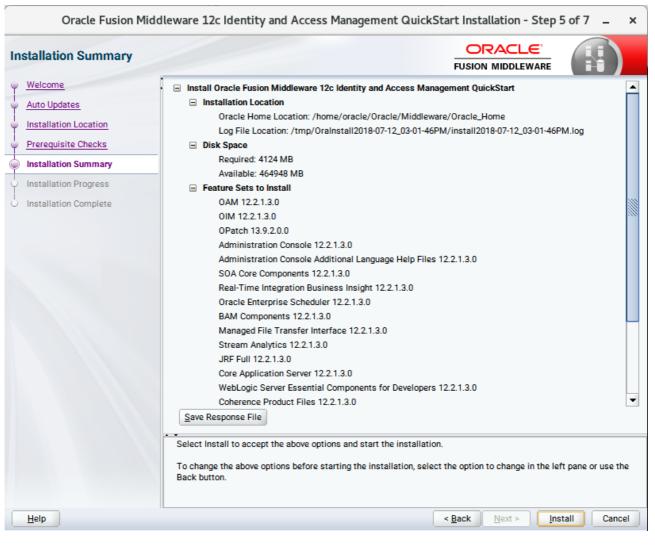
3). The Installation Location page appears.

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

	Oracle Fusion Mic	dleware 1	2c Identity and Access Management QuickStart Installation - Step 4 of 7 🛛 🗕	×
P	rerequisite Checks			
φ	Welcome	1		
5	Auto Updates		100%	
I	Installation Location			
Ţ			Checking operating system certification	
9	Prerequisite Checks	v	Checking Java version used to launch the installer	
÷	Installation Summary			1
÷	Installation Progress			-
6	Installation Complete			- 10
				-
				-
				1
				-
				-
		Pi ge (h de to Ad	ecking operating system certification roblem: This Oracle software was not certified on the current operating system at the time it was made enerally available. It may have been certified following general availability. ecommendation: Check the Supported System Configurations Guide ttp://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html) for functional tails. If your operating system is certified and no other prerequisite checks have failed, press "Next" if your operating system is certified and no other prerequisite checks have failed, press "Next" if you continue. pected result: One of oracle-6, oracle-7, redhat-7, redhat-6, SuSE-11, SuSE-12 citual result: (Unknown OS version) tecking Java version used to launch the installer	
	Help		< Back Next > Finish Can	cel

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

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



5). The Installation Summary page appears.

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

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

Oracle Fusion Midd	leware 3	2c Identity and Access Management QuickStart Installation - Step 6	of7 _ ×
Installation Progress			
Y Welcome			
Auto Updates		100%	
V Installation Location		Prepare	
Prerequisite Checks		Сору	
Installation Summary		Generating Libraries	
Installation Progress	1	Performing String Substitutions	
Installation Complete		Linking	
		Setup	
		Saving the inventory	
	1	Post install scripts	
	c)		
	View	Messages View Successful Tasks	View Log
	-	Hardware and Sor Engineered to Work T	
Help		< Back Next > Finite	sh Cancel

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

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

nstallation Complete		
Welcome Auto Updates Installation Location Prerequisite Checks Installation Summary Installation Progress Installation Complete	PUSION MIDDLEWARE Install Oracle Fusion Middleware 12c Identity and Access Management QuickStart Installation Location Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home Log File Location: /home/oracle/Oracle/Middleware/Oracle_Home Log Mill 221.3.0 OPatch 13.9.2.0.0 Administration Console 12.2.1.3.0 SoA Core Components 12.2.1.3.0 Real-Time Integration Business Insight 12.2.1.3.0 Oracle Enterprise Scheduler 12.2.1.3.0 SoA Core Application Server 12.2.1.3.0 JRF Full 12.2.1.3.0 Location Server 12.2.1.3.0 WebLogic Server Essential Components for Developers 12.2.1.3.0 Next Step(s): 1. Use the Repository Creation Utility to create the required schemas in a supported database. 2. Use the Configuration Wizard to create a domain using	
	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.

pository Creation Utilit	у			7)
Welcome Create Repository	Specify a unique prefix for all sch schemas later.	nemas created in this session,	so you can easily locate, reference, and	manage th
Database Connection Details	Select existing prefix:			
Select Components				
	Oreate new prefix:	DEV		
Schema Passwords		Alpha numeric only. Can	not start with a number. No special chara	acters.
Map Tablespaces				
Summary	Component	0	Schema Owner	
Completion Summary	Oracle AS Repository Components AS Common Schemas			
Completion Summary	Common Infrastructure Services *		DEV_STB	
	Oracle Enterpr		ESS	
		m Security Services	DEV_OPSS	
			UMS	
	Audit Services	•	DEV_IAU	
	Audit Services		DEV_IAU_APPEND	
	Audit Services		DEV_IAU_VIEWER	
	Metadata Services		DEV_MDS	
	Weblogic Serv		DEV_WLS	
	SOA Suite	1005	02121120	
	SOA Infrastruc	ture	SOAINFRA	
	DM Schemas			
	Oracle Identity	Manager	OIM	
	Oracle Access		DEV. OAM	

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.

Fusion Middleware Configuration Wizard - Page 1 of 8 _ ×					
Configuration Type					
Create Domain	1				
Templates					
Administrator Account					
Domain Mode and JDK					
Advanced Configuration					
Configuration Summary	1.2.2				
Configuration Progress	What do you want	to do?			
O End Of Configuration	<u>Create a new d</u>	lomain			
	O Update an exis	ting domain			
	Domain Location:		le_Home/user_proje	ects/domains/base_do	main B <u>r</u> owse
	Create a new doma	in.			
<u>H</u> elp			< <u>B</u> ack	<u>N</u> ext > <u>F</u> in	ish Cancel

Click Next to continue.

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 Progress End Of Configuration	Create Domain Using Product Templates: Filter Templates: Type here Include all gelected templates Include all previously applied tem Available Templates Include all previously applied tem Available Templates Insight - 12.2.1.3.0 [soa] Insight SOA Agent - 12.2.1.3.0 [soa] Oracle B2B - 12.2.1.3.0 [soa] Oracle Business Activity Monitoring - 12.2.1.3.0 [soa] Oracle Business Activity Monitoring - 12.2.1.3.0 [soa] Oracle B2B Client - 12.2.1.3.0 [soa] Oracle Access Management Suite - 12.2.1.3.0 [idm] Oracle Identity Manager - 12.2.1.3.0 [idm] Oracle Enterprise Manager - 12.2.1.3.0 [idm] Oracle Enterprise Manager-Restricted JRF - 12.2.1.3.0 [em] Oracle Domain Using Custom Template: Template location:	nplates
Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish	Cancel

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

Selecting these templates automatically selects the following as dependencies:

- Oracle Enterprise Manager 12.2.1.3.0 [em]
- Oracle JRF 12.2.1.3.0 [oracle_common]
- WebLogic Coherence Cluster Extension 12.2.1.3.0 [wlserver]

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

	Fusion 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:	base_domain /home/oracle/Oracle/Middleware/Oracle_Home/user_projects/domains Oracle/Middleware/Oracle_Home/user_projects/applications/base_domain	Browse
Help		< <u>Back</u> <u>N</u> ext > Einish	Cancel

3). The Application Location screen appears.

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

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

4). The Administrator Account screen appears.

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

	Fusion Middleware Configuration Wizard - Page 5 of 12	_ ×
Domain Mode and JDK		
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain Mode Development Utilize boot.properties for username and password, and poll for applications to deploy. @ Production Require the entry of a username and password, and do not poll for applications to deploy. JDK @ Oracle HotSpot 1.8.0_161 /home/oracle/ORACLE_SW/Java/jdk1.8.0_161 Other JDK Location:	Browse
Help	< <u>Back</u> <u>N</u> ext > <u>F</u> inish	Cancel

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.

	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 Image: Oracle Driver: Image: Oracle Oriver: Image: Oconnection Parameters Connection URL String Host Name: hpgen9-01 DBMS/Service: suse Image: Oconnection Parameters Port: 1521 Schema Owner: DEV_STB Schema Password: Image: Oconnection Result Log Connection Result Log Connecting to the database serverOK Binding local schema components with retrieved dataOK Successfully Done. Image: Oconnection Continue.
Help	< <u>Back</u> <u>Next</u> > <u>Finish</u> Cancel

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

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

		Fu	sion Middleware Co	onfiguration V	Vizard - Pa	ge 7 of	12	_ ×
J	DBC Component Schema	-				F		
イインーンーンしーシーク	Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary	O	ndor: Connection Parameters St Name: MS/Service: Connection Parameters US/Service: Configuration for Convert to Convert t	Connection P P S Component scher GridLink C	ort: chema Passwo nas: onvert to RAC (multi dat		onvert
Ş	Configuration Progress		Component Schema	DBMS/Service	Host Name	Port	Schema Owner	Schema Password
6	End Of Configuration		LocalSvcTbl Schema	SUSE	hpgen9-01	1521	DEV_STB	schema Password
		H	WLS Schema	SUSE	hpgen9-01	1521	DEV_WLS_RUNTIME	
		一	OAM Infrastructure	SUSE	hpgen9-01	1521	DEV_OAM	
			OPSS Audit Schema	SUSE	hpgen9-01	1521	DEV_IAU_APPEND	
			OPSS Audit Viewer Sche	SUSE	hpgen9-01	1521	DEV_IAU_VIEWER	
			OPSS Schema	SUSE	hpgen9-01	1521	DEV_OPSS	
	Help					< <u>B</u> ack	<u>N</u> ext > <u>F</u> i	nish Cancel

7). The JDBC Component Schema screen appears.

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

		Fu	sion M	liddleware Configuration Wizard - P	age 8 of 12		-	×
	IDBC Component Schema Test	_						
平	Create Domain		Status	Component Schema		JDBC Connect	tion URL	
	Templates		1	LocalSvcTbl Schema	jdbc:oracle	:thin:@//hpgen	9-01:1521/SUSE	
1	Application Location		1	WLS Schema	jdbc:oracle	:thin:@//hpgen9	9-01:1521/SUSE	
T			1	OAM Infrastructure	jdbc:oracle	:thin:@//hpgen	9-01:1521/SUSE	
Ť	Administrator Account		1	OPSS Audit Schema	jdbc:oracle	:thin:@//hpgen	9-01:1521/SUSE	
Ý	Domain Mode and JDK		1	OPSS Audit Viewer Schema	jdbc:oracle	:thin:@//hpgen	9-01:1521/SUSE	
ų.	Database Configuration Type		1	OPSS Schema	jdbc:oracle	:thin:@//hpgen	9-01:1521/SUSE	
4	Component Datasources							
6	JDBC Test							
Ĭ								
Ť	Advanced Configuration							
Ý	Configuration Summary							
ý	Configuration Progress		<u>T</u> est Se	lected Connections <u>Cancel Testing</u>				
9	End Of Configuration	Cor	nection	Result Log				
		Drive URL User Pass SQL CFG CFG	er=oracl =jdbc:or r=DEV_S sword=* Test=S FWK-642 FWK-642	Schema=LocalSvcTbl Schema e.jdbc.OracleDriver acle:thin:@//hpgen9-01:1521/SUSE TB ******** ELECT 1 FROM DUAL 213: Test Successful! 213: JDBC connection test was successful. 213: No action required				
	Help				< Back <u>N</u> ex	t > <u>F</u> inis	sh Canc	el

8). The JDBC Component Schema Test screen appears.

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

9). The Advanced Configuration screen appears.

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

On the Advanced Configuration screen, select:

- Administration Server
- Node Manager
- Topology

Then, click **Next** to continue.

y search rennnai rans	Fusion Midd	leware Config	juration Wiz	ard - Pag	je 10 of	21		-	×
Administration Server								1	
 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 Listen Address Listen Port Enable SSL SSL Listen Port Server Groups	AdminServer 147.2.207.96 7001 Unspecified Unspecified	ty and may not o	contain any :	,=*?%/.	cloned.			
Help					< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cance	el

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 0	Configuration Wizard - Pa	age 11 of 21	_ ×
Node Manager				
Create Domain Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server JDBC Test Advanced Configuration Administration Server Clusters Clusters Coherence Clu	 Node Manager Type Per <u>D</u>omain Default La Per Domain <u>C</u>ustom L Node Manager Home: <u>M</u>anual Node Manage Node Manager Credentials Username: Password: Confirm Password: 	.ocation re/Oracle_Home/user_project r Setup	s/domains/base_domain/nodem	anager Browse
<u>Configuration Summary</u> Configuration Progress	Must be the same as the pa number or special characte		at least 8 alphanumeric characte	ers with at least one
Help			< Back Next >	inish 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.

Managed Servers						
Create Domain Templates		one X Delete			🔊 Dis <u>c</u>	ard Changes
Application Location	Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Groups
	oam_server1	147.2.207.96	14100		Disabled	OAM-MGD 🔻
	oam_policy_mgr1	147.2.207.96	14150		Disabled	OAM-POLIC
Component Datasources						
JDBC Test						
Advanced Configuration						
Advanced Configuration						
Administration Server						
Administration Server						
Administration Server Node Manager Managed Servers						
Administration Server Node Manager Managed Servers Clusters						
Administration Server Node Manager Managed Servers Clusters Server Templates						
Administration Server Node Manager Managed Servers <u>Clusters</u> Server Templates <u>Coherence Clusters</u>						
Administration Server Node Manager Managed Servers Clusters Server Templates Coherence Clusters Machines						
Administration Server Node Manager Managed Servers Clusters Server Templates Coherence Clusters Machines Virtual Targets						

12). The Managed Servers screen appears.

On the **Managed Servers** screen, new Managed Servers named: *oam_server1* and *oam_policy_mgr1* are automatically created. In the **Listen Address** drop-down list, select the IP address of the host on which the Managed Server will reside or use the system name or DNS name that maps to a single IP address. The default **Server Groups** have already been selected for each server. Click **Next** to continue.

,	Fusion Middlewar	e Configura	ation Wizard - F	Page 13 of 23		_ ×	
Clusters	FUSION MIDDLEWARE						
Create Domain Templates		Delete			🔊 Di	s <u>c</u> ard Changes	
Application Location Administrator Account	Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS Port	Dynamic Server Groups	
	oam_cluster_1			0	0	Unspecified 💌	
Domain Mode and JDK Domain Mode and JDK	oam-policy_cluster_1			0	0	Unspecified 💌	
Database Configuration Type							
Component Datasources							
JDBC Test							
Advanced Configuration							
<u>Administration Server</u>							
Wode Manager							
Managed Servers							
Clusters							
Server Templates							
Dynamic Servers							
Assign Servers to Clusters							
<u>Coherence Clusters</u>							
w Machines							
Virtual Targets							
Partitions							
Help				< Back N	ext > Finish	Cancel	

13). The Clusters screen appears.

On the Clusters screen:

- 1. Click Add.
- 2. Specify *oam_cluster_1* in the Cluster Name field.
- 3. Leave the Cluster Address field blank.
- 4. Repeat these steps to create *oam-policy_cluster_1* cluster.

Click Next to continue.

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

	Fusion Middleware C	onfiguration Wizard - P	Page 14 of 23	_ ×
Server Templates				
Create Domain Templates	Add X Delet	e		🔊 Dis <u>c</u> ard Changes
Application Location	Name	Listen Port	SSL Listen Port	Enable SSL
<u>Administrator Account</u> <u>Domain Mode and JDK</u>]]		
Database Configuration Type Component Datasources				
U JDBC Test				
Advanced Configuration Administration Server				
<u>Node Manager</u>				
<u>Managed Servers</u> <u>Clusters</u>				
Server Templates				
Dynamic Servers				
Assign Servers to Clusters				
<u>Coherence Clusters</u>				
Machines				
Virtual Targets	· ·			
Partitions	-			
Help			< <u>B</u> ack <u>N</u> ext >	Einish Cancel

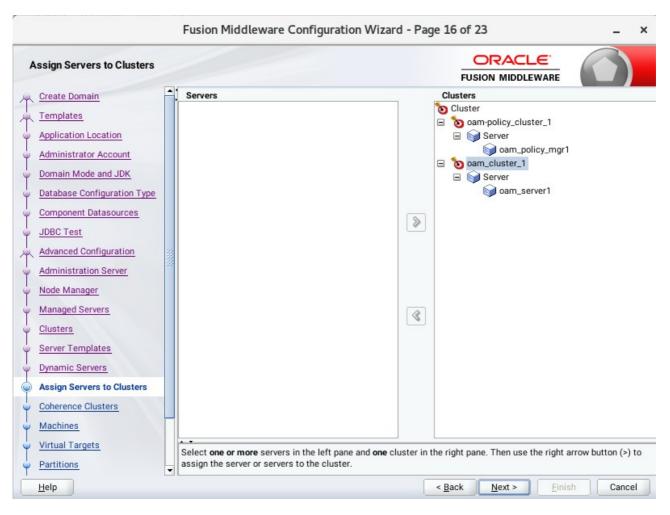
14). The Server templates screep appears.

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

	Fusion Middlewa	are Con	figuration W	/izard - I	Page 15 of 2	23		_ ×
Dynamic Servers								
Templates							🔊 Dis <u>c</u> ard	Changes
Application Location Administrator Account	Cluster Name	Server Name Prefix	Server Template	Dynamic Cluster Size	Machine Name Match Expression	Calculated Machine Names	Calculated Listen Ports	Dynamic Cluster
Domain Mode and JDK	oam_cluster_1	Disablec	Unspecified -	Disabled	Disabled			
Database Configuration Type	oam-policy_cluster_1		Unspecified •	Disabled	Disabled			
Component Datasources			·					
UDBC Test								
Advanced Configuration								
Administration Server	14							
Vode Manager								
Managed Servers								
🤟 <u>Clusters</u>								
Server Templates								
Dynamic Servers								
Assign Servers to Clusters								
<u>Coherence Clusters</u>								
Machines								
<u>Virtual Targets</u>	• •							
Partitions								
<u>H</u> elp					< <u>B</u> ack	<u>N</u> ext >	<u> </u>	Cancel

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

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



16). The Assign Servers to Clusters screen appears.

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

	Fusion Middleware Configuration W	izard - Page 17 of 23	_ ×
Coherence Clusters			
Create Domain	- -	5	Discard Changes
Templates			
Application Location	Cluster Name	Cluster Listen F	Port
<u>Administrator Account</u>	defaultCoherenceCluster	7574	
Domain Mode and JDK			
Database Configuration Type			
Component Datasources			
UDBC Test			
Advanced Configuration			
Administration Server			
Vode Manager			
Managed Servers			
<u>Clusters</u>			
Server Templates			
Dynamic Servers			
Assign Servers to Clusters			
Coherence Clusters			
Machines			
 <u>Virtual Targets</u> 	* *		
Partitions			
Help		< <u>Back</u> <u>N</u> ext > <u>F</u> in	ish Cancel

17). The Coherence Clusters screen appears.

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

	Fusion Middleware Config	uration Wizard - Page 18 of 24	_ ×
Machines			
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Dynamic Servers Assign Servers to Clusters Ocherence Clusters Machines Assign Servers to Machines	Machine Unix Machine	Node Manager Listen Address localhost	Discard Changes Node Manager Listen Port 5556
		< Back	xt > Finish Cancel

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

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

	Fusion Middleware Configuration Wizard - Pa	age 19 of 24 _ ×
Assign Servers to Machines		
Create Domain	Servers	Machines
Templates		S Machine
Application Location		Suse_machine_1 AdminServer
		oam_policy_mgr1
Administrator Account		i oam_server1
Domain Mode and JDK		
Database Configuration Type		
Component Datasources	>	
JDBC Test		
Advanced Configuration		
Administration Server		
Vode Manager		
Managed Servers	3	
Ulusters		
Server Templates		
Dynamic Servers		
Assign Servers to Clusters		
Coherence Clusters		
Wachines		
Assign Servers to Machines	Select one or more servers in the left pane and one machine	in the right pape. Then use the right arrow button (s) to
	assign the server or servers to the machine.	in the right pane. Then use the right arrow button (>) to
Help		< <u>Back Next</u> > <u>Finish</u> Cancel

19). The Assign Servers to Machines screen appears.

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

y search reconnectance	Fusion Middleware	e Configuration W	/izard - Page	20 of 24		_ ×
Virtual Targets						
Create Domain Templates	👍 Add 🗙 🗅	elete			🔊 Dis <u>c</u> ard	Changes
Application Location Administrator Account	Name	Target	Host Names	URI Prefix	Explicit Port	Port Offset
Domain Mode and JDK						
<u>Component Datasources</u>						
Advanced Configuration						
<u>Administration Server</u> <u>Node Manager</u>						
<u>Managed Servers</u> Clusters						
Server Templates Dynamic Servers						
<u>Assign Servers to Clusters</u>						
<u>Coherence Clusters</u> <u>Machines</u>						
Assign Servers to Machines Virtual Targets	-					
Help			<	Back <u>N</u> ext >	<u>F</u> inish	Cancel

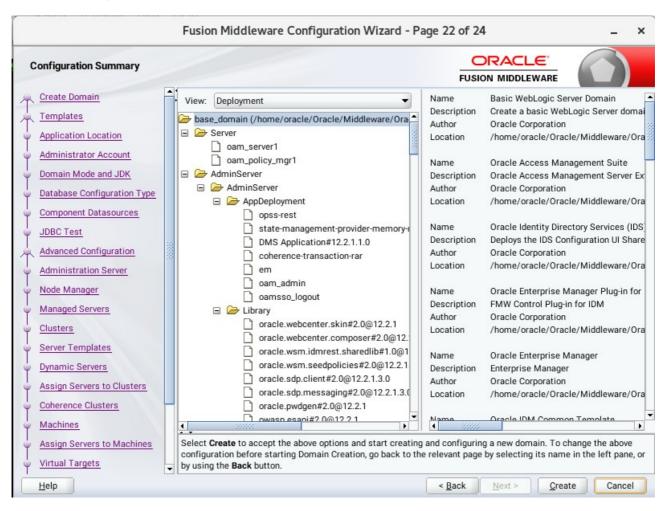
20). The Virtual Targets screep appears.

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 Conf	iguration Wizard - Page 21 of 24 _ ×
Partitions	
Create Domain Templates Create Domain Add	🔊 Discard Changes
Application Location	Name
Administrator Account	
Domain Mode and JDK Database Configuration Type	
Database Configuration Type Component Datasources	
UDBC Test	
Advanced Configuration	
<u>Administration Server</u>	
<u>Node Manager</u>	
Managed Servers	
Clusters	
Server Templates	
Dynamic Servers Assign Servers to Clusters	
Conerence Clusters Machines	
Assign Servers to Machines	
Virtual Targets	
Help	< <u>Back</u> <u>N</u> ext > <u>Finish</u> 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.



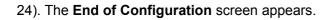
22). The Configuration Summary screen appears.

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

Fu	sion Middleware Configur	ation Wizard - Pag	ge 23 of 2	4		_ ×
Configuration Progress					6	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Dynamic Servers Assign Servers to Clusters Coherence Clusters Coherence Clusters Machines Assign Servers to Machines Virtual Targets	Copy Unprocessed Artifacts OPSS Processing Security Processing Artifacts Generation String Substitution Post Processing	100%				
Help			< <u>B</u> ack	<u>N</u> ext > E	nish	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.



	Fusion Middleware Configuration Wizard	d - Page 24 of 24	_ ×
End Of Configuration			
 Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Dynamic Servers Assign Servers to Clusters Machines Assign Servers to Machines Virtual Targets 	Oracle Weblogic Server Configuration Succeeded New Domain base_domain Creation Succeeded Domain Location /home/oracle/Oracle/Middleware/Oracle Admin Server URL http://147.2.207.96.7001/console	d le_Home/user_projects/domains/base_domain	
Help		< Back Next > Finish	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. 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@)hpgen9-01:	/home/	oracle/Oracle/Mid	dleware/Oracle_H	ome/user_pro	ojects/domains/base_domain/b	oin –		×
File	Edit View	Search	Terminal T	abs He	lelp						
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	le@hpgen9 Manager.s			Oracle	e/Middleware/O)racle_Home/use	r_projects	/domains/base_domain/bi	.n <mark>> nohup</mark>	./sta	irt
[1]	32392										
			e/oracle/ ing stder)racle_Home/use	r_projects	/domains/base_domain/bi	In> nohup	igno	ori
								/domains/base_domain/bi /user projects/domains/			
nana	ger										
								acle/Oracle/Middleware/ /lserver//oracle_commo			
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							lserver/	:/home/oracle/Oracle/Mi	ddleware,	0racl	.e_
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		aseUsed=t	PM GMT+0	8:00>		nager.domains> .ng identity ke	y store: F		emoidenti		

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	• ×
ile Edit View Search Terminal Tabs Help	
oracle@hpgen9-01:/ho × oracle@hpgen9-01:/ho × oracle@hpgen9-01:/ho × oracle@hpgen9-01:/ho ×	<u>1</u> -
addLdapPwd" cannot be found.> Jul 12, 2018 6:34:52,797 PM GMT+08:00> <warning> <oracle.as.jmx.framework.messagelocalizationhelper> <jzee 5041> <the "oracle.security.am.wlst.management.foundationconfigmbeanresources"="" bundle="" for="" ke<br="" resource="" with="">updateAgentPassword" cannot be found.> Jul 12, 2018 6:34:53,532 PM GMT+08:00> <warning> <javax.enterprise.resource.webcontainer.jsf.managedbean> Jul 12, 2018 6:34:53,532 PM GMT+08:00> <warning> <javax.enterprise.resource.webcontainer.jsf.managedbean> anaged.bean.duplicate> <jsf1074: 'treerefresh'="" already="" bean="" been="" has="" managed="" named="" registered.="" replacing<br="">ing managed bean class type oracle.am.security.TreeRefresh with oracle.security.fed.admin.sts.ui.model.Treel 1.> Jul 12, 2018 6:35:00,795 PM GMT+08:00> <notice> <log management=""> <bea-170027> <the has="" server="" successfully<br="">lished a connection with the Domain level Diagnostic Service.> 2018-07-12 18:35:00.818/149.995 Oracle Coherence GE 12.2.1.3.0 <info> (thread=[STANDBY] ExecuteThread: '1' eue: 'weblogic.kernel.Default (self-tuning)', member=n/a): Loaded cache configuration from "jar:file:/home. c/oracle/Mriddleware/Oracle_Home/oracle_common/modules/oracle.wsm.common/wsm-agent-core.jar!/oracle-wsm-coh- cache-config.xml" 2012 12, 2018 6:35:00,202 Oracle Coherence GE 12.2.1.3.0 <info> (thread=[STANDBY] ExecuteThread: '1' eue: 'weblogic.kernel.Default (self-tuning)', member=n/a): Created cache factory com.tangosol.net.Extensib igurableCacheFactory 2011 12, 2018 6:35:02,370 PM GMT+08:00> <notice> <weblogicserver> <bea-000365> <server adm<br="" changed="" state="" to="">2011 12, 2018 6:35:02,370 PM GMT+08:00> <notice> <jmx> <bea-149535> <jmx activity="" resiliency="" serv<br="" server="All">Resolving connection list DomainRuntimeServiceMBean> 2011 12, 2018 6:35:02,576 PM GMT+08:00> <notice> <weblogicserver> <bea-000329> <started server<br="" the="" weblogic="">Resolving connection list DomainRuntimeServiceMBean> 2011 12, 2018 6:35:02,576 PM GMT+08:00> <notice> <weblogicserver> <bea-000329> <started server<br="" the="" weblogic="">Resolvin</started></bea-000329></weblogicserver></notice></started></bea-000329></weblogicserver></notice></jmx></bea-149535></jmx></notice></server></bea-000365></weblogicserver></notice></info></info></the></bea-170027></log></notice></jsf1074:></javax.enterprise.resource.webcontainer.jsf.managedbean></warning></javax.enterprise.resource.webcontainer.jsf.managedbean></warning></the></jzee </oracle.as.jmx.framework.messagelocalizationhelper></warning>	JMX- y "oa <jsf. exist Refre esta for q /orac erenc for q leCon IN.> UMING vers</jsf.
Jul 12, 2018 6:35:02,577 PM GMT+08:00> <notice> <server> <bea-002613> <channel "default"="" (<br="" is="" listening="" now="">.2.207.96:7001 for protocols iiop, t3, ldap, snmp, http.></channel></bea-002613></server></notice>	on 14
Jul 12, 2018 6:35:02,578 PM GMT+08:00> <notice> <server> <bea-002613> <channel "default"="" (<br="" is="" listening="" now="">.2.207.96:7001 for protocols iiop, t3, ldap, snmp, http.></channel></bea-002613></server></notice>	on 14
Jul 12, 2018 6:35:02,579 PM GMT+08:00> <notice> <weblogicserver> <bea-000360> <the in="" runni<br="" server="" started="">e.></the></bea-000360></weblogicserver></notice>	NG mo
Jul 12, 2018 6:35:02,593 PM GMT+08:00> <notice> <weblogicserver> <bea-000365> <server changed="" run<="" state="" td="" to=""><td>NING.</td></server></bea-000365></weblogicserver></notice>	NING.

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:

Oracle WebLogic Server Administration Console - N	Mozilla Firefox			-	•	×
Oracle WebLogic Server × +						
() 🔏 http://hpgen9-01:7001/console/login/LoginForm.jsp	Search	☆ 自	+	A		≡
	Log in to work with the Web Username: Password:	Welcome oLogic Server dor weblogic		Login I		ſ
WebLogic Server Version: 12.2.1.3.0 Copyright (c) 1996,2017, Oracle and/or its affiliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.						

Home Page:

	Home Page - base_do	main - WLS Console - Mozilla Firefox		-	- •	×
Home Page - base_doma ×	+					
🗲 🛈 🎤 http://hpgen9-01:700	1/console/console.portal?_nfpb=true	8 🗊 90% C 🔍 Search	☆ 自 、	↓ 俞		≡
	ninistration Console 12c					Q
Change Center	👔 Home Log Out Preferences 🟊 Record Help	P	Welcome, weblogic	Connected to	:base_do	omain
View changes and restarts	Home					
Click the Lock & Edit button to modify, add or	Home Page					
delete items in this domain.	- Information and Resources					-11
	Helpful Tools	General Information				- 11
Release Configuration	Configure applications	 Common Administration Task Descriptions 				- 11
Domain Structure	 Configure GridLink for RAC Data Source 	 Read the documentation 				- 11
base domain	 Configure a Dynamic Cluster 	 Ask a question on My Oracle Support 				- 11
Domain Partitions	 Recent Task Status 					- 11
Environment	 Set your console preferences 					- 11
Deployments	 Oracle Enterprise Manager 					- 11
Security Realms	Domain Configurations					- 11
Interoperability Diagnostics	Domain	Resource Group Templates	la tara a sa kultar			- 11
E-blaghostics	Domain	Resource Group Templates	WTC Servers			- 11
	• Domain	Resource Group Templates	Jolt Connection Pools			- 11
	Domain Partitions	Resource Groups	• conconnection roots			- 11
	Domain Partitions	Resource Groups	Diagnostics			- 11
	Partition Work Managers	• Resource oroups	Log Files			- 11
How do I 🖂		Deployed Resources	Diagnostic Modules			- 18
Search the configuration	Environment	Deployments	Built-in Diagnostic Modules			- 11
Use the Change Center	Servers		Diagnostic Images			- 18
Record WLST scripts	Clusters	Services	Request Performance			- 18
Change Console preferences	 Server Templates 	Messaging	Archives			- 11
Manage Console extensions	 Migratable Targets 	 JMS Servers 	Context			
Monitor servers	Coherence Clusters	 Store-and-Forward Agents 	SNMP			- 11
	Machines	JMS Modules	 Interceptors 			
System Status	Virtual Hosts	 Path Services 				- 15
Retrieving Health Data	Virtual Targets	 Bridges 	Charts and Graphs			

viewing the summa										
		1	Summary of Serve	rs - base_d	omain - WLS Con	sole - Mozilla Fire	fox		- '	×
Summary of Servers - ba 3	، (+									
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	Administ	tration (Console 12c							õ
Change Center	1	🔒 Hom	e Log Out Preferences 📐	Record Help		Q	We	Icome, weblogic	onnected to: base_	domain
View changes and restarts		Home >\$	Summary of Servers							_
Click the Lock & Edit button to modify, add or	S	ummary	of Servers							
delete items in this domain.		Configu	ration Control							
Lock & Edit		-								
Release Configuration		Aserve	r is an instance of WebLogic !	Server that runs in	its own Java Virtual Machine	(JVM) and has its own confi	guration.			- 11
			ge summarizes each server t				3			- 11
Domain Structure		rnis pa	ge summanzes each server b	nachas been com	igured in the current weblog	gic server dornain.				- 11
base_domain		<u>5</u> 2								
-Environment										
Deployments Services		Custo	mize this table							- 11
Security Realms		Server	s (Filtered - More Columns I	Exist)						- 11
Interoperability		Click th	ne Lock & Edit button in the Ch	ange Center to ac	tivate all the buttons on this p	page.				
Diagnostics										- 11
		New	/ Clone Delete					Showing 1 to 3 c	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			oam_policy_mgr1	Configured	oam-policy_cluster_1	suse_machine_1	SHUTDOWN	Not reachable	14150	
Create Managed Servers			oam_server1	Configured	oam_cluster_1	suse_machine_1	SHUTDOWN	Not reachable	14100	
Clone servers		New	/ Clone Delete					Showing 1 to 3 c	f3 Previous Ne	ext
Delete Managed Servers								-	1	_
Delete the Administration Server Start and stan server										
 Start and stop servers View objects in the JNDI tree 	1									
System Status										
Health of Running Servers as of 6:38 PM										

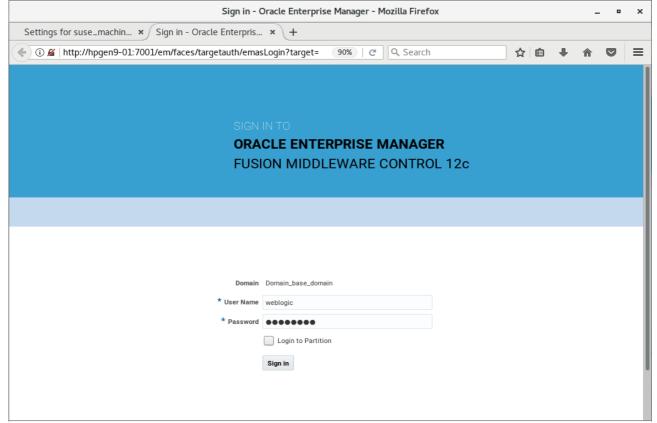
Viewing the summary of servers:

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

	Settings for suse_machine_1 - base_domain - WLS Console - Mozilla Fi	irefox _ • ×
Settings for suse_machin ×	\+	
(i) http://hpgen9-01:7001/c	console/console.portal?_nfpb=true&_p 🛛 🕬 🖓 🖓 🖓 Search	☆ 自 ↓ 佘 ♡ Ξ
	ministration Console 12c	Q
Change Center	🟦 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: base_domain
View changes and restarts	Home >Summary of Servers >Summary 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	
Lock & Edit Release Configuration	Node Manager Status Node Manager Log	
Domain Structure	This page allows you to view current status information for the Node Manager instance configured for this machine	ie.
base_domain	Status: Reachable Current s	and a state of the balance of the state of t
-Environment	Status: Reachable Current s	status of this Node Manager. More Info
Deployments Services	Version: 12.2.1.3.0 Version	string returned from the Node Manager. More Info
Security Realms		
- Interoperability - Diagnostics		
E Diagnostics		
How do I 😑		
Monitor Node Manager status		
Monitor Node Manager logs		
Create and configure machines		
System Status		
Health of Running Servers as of 6:38 PM		
Failed (0)		
Critical (0)		
Overloaded (0)	1	

2). Access to Enterprise Manager Console.

Login Page:



Home Page:

	base_domain (Oracle WebLogic	Domain)	- Oracle Enter	prise Manager -	Mozilla Firefox	c			-		;
Settings for suse_machin ×	base_domain (Oracle We ×	+									
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base_domain 0					P	•	•	Auto	Refresh	n Off	-
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Servers	Administration Server										
2 Down											
	Name AdminS										
l op	Host hpgen9-	01									
Clusters	Listen Port 7001										
Clusters	Servers										
2 Down	View 🔻 🎽 Create 💥 Delete	Contro	▼ E¥								
	Name	Status	Cluster	Machine	State			Health	1		
	AdminServer(admin)	+		suse_machine_1	Running			ок			
Deployments	oam_policy_mgr1	+	oam-policy_clus	suse_machine_1	Shutdown			Unkno	wn		
2 Down	oam_server1	+	oam_cluster_1	suse_machine_1	Shutdown			Unkno	wn		
3 Up											
C op											
~	Columns Hidder	34							Serve	ers 3 o	f 3

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

	b	ase_domain (Oracle WebLogic I	Domain	- Oracle Enter	prise Manager -	Mozilla Firefo	¢			-	. •	
Settings for suse_machin	×	base_domain (Oracle We ×	+									
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base_domain ()						1	•	•	Auto	Refresh	Off	-
🔚 WebLogic Domain 👻							Ju	112,201	8 6:47:15	5 PM GM	T+08:00	E
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Servers		Administration Server										
		Name AdminSe	rver									
Z Up		Host hpgen9-0	01									
		Listen Port 7001										
Clusters		Servers										
1 Down	Þ	View 🔻 🎽 Create 🔀 Delete	Contro	· E								
1υρ		Name	Status	Cluster	Machine	State			Healt	n		
		AdminServer(admin)	+		suse_machine_1	Running			ок			
Deployments		oam_policy_mgr1	+	oam-policy_clus	suse_machine_1	Shutdown			Unkno	wn		
1 Down		oam_server1	1	oam_cluster_1	suse_machine_1	Running			ОК			
4 Up	-											
- Up										_		_
		Columns Hidden	34							Serve	ers 3 o	f 3
*												

	b	ase_domain (Oracle WebLogic I	Domain) - Oracle Enter	prise Manager -	Mozilla Firefox	c			_		
Settings for suse_machin	×ſ	base_domain (Oracle We 🗴	+									
😧 🛈 🎤 http://hpgen9-01:7	7001	/em/faces/as-weblogic-webLogic	Domain	90% C	Q Search		☆	Ê	+	Â		:
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base_domain ()						2	•	•	Auto	Refresh	Off	
WebLogic Domain 🔻							Ju	112,2018	8 6:49:0	5 PM GM	T+08:00	· ť
1) Information												
3 Up	•	Administration Server Name AdminSe Host hpgen9-0										
Clusters		Listen Port 7001 Servers										
2 10	•	View 💌 🎽 Create 🛛 💥 Delete	Contro	l ▼ E¥								
Zup		Name	Status	Cluster	Machine	State			Healt	h		
		AdminServer(admin)	+		suse_machine_1	Running			ок			
Deployments		oam_policy_mgr1	+	oam-policy_clus	suse_machine_1	Running			ок			
		oam_server1	+	oam_cluster_1	suse_machine_1	Running			ок			
5 up	-											
		Columns Hidden	34							Serv	ers 3 o	f 2

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

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

Oracle Access Management -	Administration Console - Mozilla I	Firefox	_ = ×
Settings for suse_machin × base_domain (Oracle We × Orac	:le Access Managem × +		
< 🛈 🔏 http://hpgen9-01:7001/oamconsole/faces/login.jspx	90% C Search	☆自	+ ☆ ◙ ≡
			About Oracle
Sign In Sign in to administer Oracle Access Manag Username weblogic Password •••••••	ement		
Copyright \oplus 2000, 2017, Oracle and/or its affiliates. All rights reserved.			

	Management - Administration Console - Moz	cilla Firefox _ •
ettings for suse_machin × base_domain (Oracle V		
(i) P http://hpgen9-01:7001/oamconsole/faces/adr	nin.jspx 90% C Search	
		ication Security 👗 Federation 🥳 Configuration
Launch Pad		
- 1		
Quick Start Wizards	Access Manager + 🔻	Agents 🛨 🔻
Perform common setup tasks	Manage Single Sign-On Application Domains	Manage Single Sign-On agents
SSO Agent Registration	Application Domains Resource Types	
	Host Identifiers Authentication Schemes	
	Automodulor Sciences	
Session Management	Password Policy	Plug-ins 🛨 🔻
Oracle Access	Management - Administration Console - Moz	illa Firefox _ =
ttings for suse_machin × base_domain (Oracle \		
(i) ₽ http://hpgen9-01:7001/oamconsole/faces/adr	nin.jspx 90% C Q. Search	☆ 自 ♣ 余 ♥
		weblogic 🔻 🚥
ORACLE [®] Access Management	The Appl	ication Security
Launch Pad		
Available Services	User Identity Stores	Administration
Available Services	User Identity Stores Manage IDS profiles and ID stores	Administration Grant administrative permissions

Oracle Fusion Middleware 12c on SLES 15

	Oracle Access Management	- Administration Console - Mozilla Firef	ox	_ •	×
Settings for suse_machin	🗴 base_domain (Oracle We 🗴 🖸	Oracle Access Manag 🗙 Oracle Acce	ess Managem × +		
🔶 🛈 🔏 http://hpgen9-0	1:14150/access/faces/login.jspx	90% C Q Search	☆ 自 ♣	⋒ ♥	≡
ORACLE	Access Management		At	oout Oracle	
	Sign In Sign in to administer Oracle Access Mana Username weblogic Password	gement			

4). Access to Policy Manager Console - URL: http://host:port/access

Oracle A	ccess Management - Ac	Iministration Console - Mo	ozilla Firefox		-	- •	×
Settings for suse_machin × base_domain (O	racle We 🗴 🔁 Ora	cle Access Manag 🗙 🤇	Oracle Access Mar	nag × +	•		
🗧 🛈 🎤 http://hpgen9-01:14150/access/faces/a	idmin.jspx	90% C Q Searc	h	☆ 自	↓ 俞		Ξ
				v	veblogic 🔻		
ORACLE [®] Access Managemen	t	F Ap	plication Security	Federation	Configura	tion	
Launch Pad							
· · · · · · · · · · · · · · · · · · ·							
.*							
Quick Start Wizards	Access M	anager 🕂 🔻	Agent	s + •			
Perform common setup tasks	Manage Single Sigr	-On Application Domains	Manage Sing	le Sign-On agents			
SSO Agent Registration	Application Domain	s					
	Resource Types						
	Host Identifiers Authentication Sche	2000					
	Autornication Sch	nies -					
				P P			
		6					
Session Management	Passw		Plug-ir	-			

End of Oracle Access Manager.

Oracle Identity Manager

1.Installing Oracle Identity and Access Management 12cPS3 software

1-1. Prerequisites:

Installation of Oracle Identity and Access Management requires:

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

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



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 .600 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 JDK 1.8.0_131 and later installed.

1-2. Log in to the target system (SLES 15 64-bit OS) as a non-admin user. Download the Oracle Identity and Access Management 12cPS3 (12.2.1.3.0) generic installer .zip file from http://www.oracle.com/technetwork/indexes/downloads/index.html#middleware.

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

Oracle Fusion Middleware 12c on SLES 15

1-3. Go to the directory where you downloaded the installation program. Extract the contents of these .zip ("fmw_12.2.1.3.0_idmqs_Disk1_1of2.zip" and "fmw_12.2.1.3.0_idmqs_Disk1_2of2.zip") files and launch the installation program by running 'java -jar fmw_12.2.1.3.0_idmquickstart.jar'

For the actual installation, follow the steps below:

1). Welcome page appears.

10

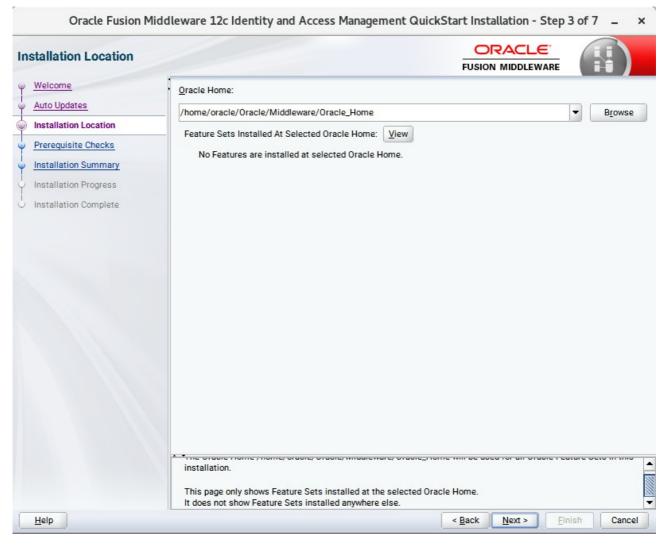
	Oracle Fusion Midd	leware 12c Identity and Access Management QuickStart Installation - Step 1 of 7 💷 🗙
w	elcome	
0	Welcome	
Ý	Auto Updates	Welcome to the Oracle Fusion Middleware 12c (12.2.1.3.0) IDM Suite Quick Start Installer.
4	Installation Location	Use this installer to create a new Oracle home that contains everything you need to manage privileges and protect applications with the Oracle IDM Suite software for production or evaluation.
4	Prerequisite Checks	For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware documentation library.
Ý	Installation Summary	For more mormation, see <u>instan, Patch, and opprade</u> in the Gracie Pusion Miduleware documentation horary.
Ý	Installation Progress	Context-sensitive online help is available from the \underline{H} elp button.
0	Installation Complete	
		Copyright (c) 2010, 2017, Oracle and/or its affiliates. All rights reserved.
	<u>H</u> elp	< Back Next > Finish Cancel

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

Oracle Fusion Mide	lleware 12c Identity and Access Manageme	nt QuickStart Installation - Step 2 of 7 💶 🗙
Auto Updates		
Welcome Auto Updates Installation Location 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 Search	FUSION MIDDLEWARE Brgwse Image: Imag
Help		< Back Next > Finish Cancel

2). The Auto Updates page appears.

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



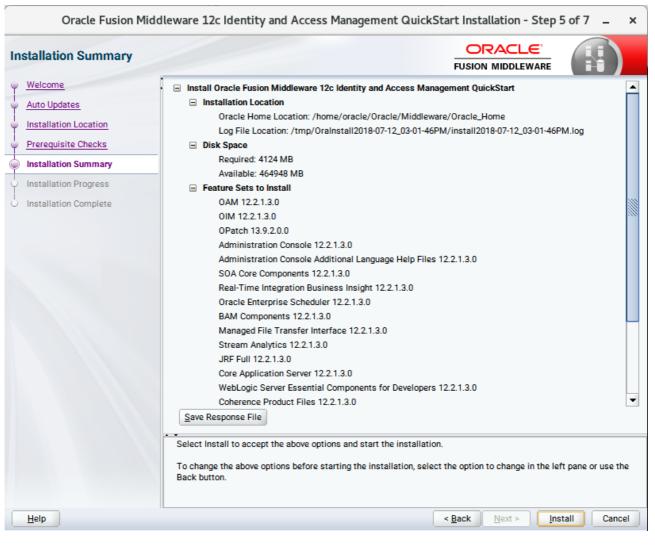
3). The Installation Location page appears.

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

	Oracle Fusion Mic	dleware 1	2c Identity and Access Management QuickStart Installation - Step 4 of 7 🛛 🗕	×
P	rerequisite Checks			
φ	Welcome	1		
5	Auto Updates		100%	
I	Installation Location			
Ţ			Checking operating system certification	
9	Prerequisite Checks	v	Checking Java version used to launch the installer	
÷	Installation Summary			1
÷	Installation Progress			-
6	Installation Complete			- 10
				-
				-
				1
				-
				-
		Pi ge (h de to Ad	ecking operating system certification roblem: This Oracle software was not certified on the current operating system at the time it was made enerally available. It may have been certified following general availability. ecommendation: Check the Supported System Configurations Guide ttp://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html) for functional tails. If your operating system is certified and no other prerequisite checks have failed, press "Next" if your operating system is certified and no other prerequisite checks have failed, press "Next" if you continue. pected result: One of oracle-6, oracle-7, redhat-7, redhat-6, SuSE-11, SuSE-12 citual result: (Unknown OS version) tecking Java version used to launch the installer	
	Help		< Back Next > Finish Can	cel

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

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



5). The Installation Summary page appears.

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

6). The Installation Progress page appears.

Oracle Fusion Midd	leware 3	2c Identity and Access Management QuickStart Installation - Step 6	of7 _ ×
Installation Progress			
Y Welcome			
Auto Updates		100%	
V Installation Location		Prepare	
Prerequisite Checks		Сору	
Installation Summary		Generating Libraries	
Installation Progress	1	Performing String Substitutions	
Installation Complete		Linking	
		Setup	
		Saving the inventory	
	1	Post install scripts	
	c)		
	View	Messages View Successful Tasks	View Log
	-	Hardware and Sor Engineered to Work T	
Help		< Back Next > Finite	sh Cancel

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

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

Installation Complete		
Welcome Auto Updates Installation Location Prerequisite Checks Installation Progress Installation Complete	Install Oracle Fusion Middleware 12c Identity and Access Management QuickStart Installation Location Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home Log File Location: /home/oracle/Oracle/Home/Log OAM 12.2.1.3.0 Administration Console 12.2.1.3.0 BAM Components 12.2.1.3.0 BAM Components 12.2.1.3.0 JRF Full 12.2.1.3.0 JRF Full 12.2.1.3.0 Loce Application Server 12.2.1.3.0 WebLogic Server Essential Components for Developers 12.2.1.3.0 Next Step(s): 1. Use the Repository Creation Utility to create the required schemas in a supported database.	
	2. Use the Configuration Wizard to create a domain using the required domain configuration templates. See the <u>product installation quide</u> for more information. Oracle Fusion Middleware 12c Identity and Access Management QuickStart installation completed successful	illy

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

2. Configuring the Oracle Identity Manager Domain

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

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

Screenshot: Database schemas creating for Oracle Identity Manager.

		Repository Cre	ation Utility - Step 4 of	8	_ ×
Re	pository Creation Utility	,		<	
T T	<u>Welcome</u> <u>Create Repository</u> Database Connection Details	Specify a unique prefix for all sch schemas later.	nemas created in this session,	so you can easily locate, reference,	and manage the
J	Select Components				
-		Oreate new prefix:	DEV		
Ĵ	Schema Passwords Map Tablespaces		Alpha numeric only. Canr	not start with a number. No special o	characters.
	Summary	Component		Schema Owner	
Ť		Oracle AS Repository			
Ú	Completion Summary	AS Common Sch			
		Common Infra	astructure Services *	DEV_STB	
		Oracle Enterpr	ise Scheduler	ESS	
		✓ Oracle Platform	m Security Services	DEV_OPSS	
		✓User Messagir	ng Service	DEV_UMS	
		✓ Audit Services		DEV_IAU	
		✓ Audit Services	Append	DEV_IAU_APPEN	D
		✓ Audit Services	Viewer	DEV_IAU_VIEWER	5
		Metadata Serv	vices	DEV_MDS	
		✓ Weblogic Serv	ices *	DEV_WLS	
		SOA Suite			
		SOA Infrastruc	ture	DEV_SOAINFRA	
		IDM Schemas			
		✓ Oracle Identity	Manager	DEV_OIM	
		Oracle Access	Manager	OAM	
		* Mandatory component. Ma	andatory components cannot b	e deselected.	
	Help			< <u>Back Next > Fin</u>	nish Cancel

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

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

In order to complete the configuration. Run the config wizard using **config.sh** located in the **ORACLE_HOME/oracle_common/common/bin** directory.

Follow these steps:

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

	Fusion Middle	eware Config	juration Wi	zard - Pag	ge 1 of a	8			-	×
Configuration Type								R		
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	What do you want Create a new do Create a new doma	lomain ting domain racle/Oracle/M	Aiddleware/Ora	acle_Home/u:				ain	Brows	e
Help				-	< <u>B</u> ack	<u>N</u> ext >	Einist	n	Cance	el

Click Next to continue.

2). The Templates screen appears.

	Fusion Middlewa	re Configuration Wiz	ard - Page 2 of 13	_ ×
Templates				
Create Domain Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Filter Templates: Available Template Basic WebLogic Insight - 12.2.1.3 Insight SOA Age Oracle B2B - 12 Oracle B2B - 12 Oracle Business Oracle B2B Clie Oracle Access I Oracle Access I Oracle Identity I Oracle Enterpris Oracle Enterpris Oracle Enterpris	: Server Domain - 12.2.1.3.0 3.0 [soa] ent - 12.2.1.3.0 [soa] .2.1.3.0 [soa] s Activity Monitoring - 12.2.1 te - 12.2.1.3.0 [soa] nt - 12.2.1.3.0 [soa] Management Suite - 12.2.1.3. Manager - 12.2.1.3.0 [idm] se Manager - 12.2.1.3.0 [em] se Manager-Restricted JRF -	[wlserver] * 	■ ■ ■ ■ ■ ■ ■
Help			< <u>B</u> ack <u>N</u> ext >	Einish Cancel

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

Selecting these templates automatically selects the following as dependencies:

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

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

Fusion Middleware Configuration Wizard - Page 3 of 15 × ORACLE **High Availability Options** FUSION MIDDLEWARE Create Domain Templates **High Availability Options** Application Location Enable Automatic Service Migration (Non-Dynamic Clusters only) Administrator Account O Database Leasing Domain Mode and JDK O Consensus Leasing Database Configuration Type Component Datasources JTA Transaction Log Persistence (Non-Dynamic Clusters only) JDBC Test Default Persistent Store Credentials ○ JDBC <u>T</u>Log Store Keystore JMS Server Persistence Advanced Configuration ● JMS File Store Configuration Summary ○ JMS JDBC Store **Configuration Progress** 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. Finish Cancel Help < Back Next >

3). The High Availability Options screen appears.

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

	age 4 of 15	-	×		
Application Location					
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/Or Dracle/Middleware/Oracle_Home/us	racle_Home/user_projects/domains ser_projects/applications/base_domain	Brows	ie
Help			< <u>B</u> ack <u>N</u> ext > <u>F</u> inish	Canc	el

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

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

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

5). The Administrator Account screen appears.

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

	Fusion Middleware Configuration Wizard - Page 6 of 15		_ ×
Domain Mode and JDK			
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Credentials Keystore Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain Mode Development Utilize boot.properties for username and password, and poll for applie Production Require the entry of a username and password, and do not poll for ap JDK Oracle HotSpot 1.8.0_161 /home/oracle/ORACLE_SW/Java/jdk1.8.0_1 Other JDK Location: 	pplications to deplo	oy.
Help	< Back	ext > Einist	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.

	Fusion Middleware Configuration Wizard - Page 7 of 15 _ ×
Database Configuration Type	
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 <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:
Help	< <u>Back</u> <u>Next</u> > <u>Finish</u> Cancel

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

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

	Fu	ision Middleware Co	onfiguration	Wizard - Pa	ige 8 d	of 15	_	×
JDBC Component Schema								
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Credentials	Vendor: Driver: Connection Parameters Connection URL String Host Name: DBMS/Service: Port: Schema Owner: Schema Password: 						convert	
Veystore		Component Schema	DBMS/Service	Host Name	Port	Schema Owner	Schema Passwor	d
Advanced Configuration		OIM Schema	SUSE	hpgen9-01	1521	DEV_OIM		-
 Configuration Summary 		SOA EDN (XA)	SUSE	hpgen9-01	1521	DEV_SOAINFRA		
Configuration Progress		SOA EDN (Local)	SUSE	hpgen9-01	1521	DEV_SOAINFRA		2002
		LocalSvcTbl Schema	SUSE	hpgen9-01	1521	DEV_STB		- 3
O End Of Configuration		User Messaging Service	SUSE	hpgen9-01	1521	DEV_UMS		
		SOA (XA)	SUSE	hpgen9-01	1521	DEV_SOAINFRA		
		SOA (Local)	SUSE	hpgen9-01	1521	DEV_SOAINFRA		
	WLS Schema SUSE hpgen9-01 1521 DEV_WLS_RUNTIME ······							
Help					< <u>B</u> acl	k <u>N</u> ext >	Einish Cance	1

8). The JDBC Component Schema screen appears.

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

		Fu	sion M	liddleware Configuration Wizard - Pa	age 9 of 15 –	×		
J	DBC Component Schema Test	-						
平	Create Domain		Status	Component Schema	JDBC Connection URL			
	Templates		1	OIM Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE	-		
1	High Availability Options		1	SOA EDN (XA)	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE			
Ι			1	SOA EDN (Local)	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE			
Ĭ	Application Location		1	LocalSvcTbl Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE	1995		
Ý	Administrator Account		1	User Messaging Service	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE	12		
Ý	Domain Mode and JDK		1	SOA (XA)	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE			
4	Database Configuration Type		1	SOA (Local)	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE			
1	Component Datasources		1	WLS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE			
I			1	OIM MDS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE			
9	JDBC Test		1	OWSM MDS Schema	jdbc:oracle:thin:@//hpgen9-01:1521/SUSE	7.		
	Credentials Iest Selected Connections Cancel Testing Advanced Configuration Connection Result Log Configuration Summary Component Schema=OIM Schema Driver=oracle.jdbc.OracleDriver URL=jdbc.OracleLithin:@//hpgen9-01:1521/SUSE URL=jdbc.OracleLithin:@//hpgen9-01:1521/SUSE							
0	End Of Configuration Password=******* SQL Test=select 1 from schema_version_registry where owner=(select user from dual) and mr_type='OIM' and vers CFGFWK-64213: Test Successful! CFGFWK-64213: JDBC connection test was successful. CFGFWK-64213: No action required							
	<u>H</u> elp				< Back Next > Einish Cancel			

9). The JDBC Component Schema Test screen appears.

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

Fusion Middleware Configuration Wizard - Page 10 of 15 × ORACLE" Credentials FUSION MIDDLEWARE Create Domain X Delete Add Discard Changes Templates High Availability Options Key Name Username Password Store Name keystore keystore oim Application Location OIMSchemaPassword DEV_OIM oim Administrator Account sysadmin xelsysadm oim Domain Mode and JDK WeblogicAdminKey weblogic oim Database Configuration Type Component Datasources JDBC Test Credentials Keystore Advanced Configuration Configuration Summary **Configuration Progress** End Of Configuration Cancel <u>H</u>elp < Back Next > Finish

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**.

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

	Fusion Middle	ware Configuration Wizard	- Page 11 of 15	_ ×
Keystore				
	Store Key Name	ums/apns		✓ Discard Changes
High Availability Options Application Location	Alias		Trusted Certificate	
Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Credentials				
	Alias	Private Key	Password	Identity Certificate
Configuration Summary Configuration Progress End Of Configuration				
Help			< <u>B</u> ack <u>N</u> e	xt > Finish Cancel

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

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

12). The Advanced Configuration screen appears.

On the Advanced Configuration screen, select:

- Administration Server
- Node Manager
- Topology

Then, click **Next** to continue.

Fusion Middleware Configuration Wizard - Page 13 of 24 _ ×						
Administration Server						
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Credentials Keystore Advanced Configuration Managed Servers Clusters Server Templates Coherence Clusters Machines	Server Name Listen Address Listen Port Enable SSL SSL Listen Port Server Groups	Unspecified	nd may not contain a	ny : , = * ? % / _cloned.		
 <u>Virtual Targets</u> <u>H</u>elp 	•	2.401		< <u>B</u> ack <u>N</u> ext >	<u>Finish</u> 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 Advanced Configuration Advanced Configuration Advanced Configuration Mode Manager Managed Servers Clusters Server Templates Coherence Clusters	Node Manager Type Per Domain Default Lo Per Domain <u>C</u> ustom L	ocation re/Oracle_Home/user_project r Setup	ts/domains/base_domain/nodemana	ger B <u>r</u> owse			
<u>Machines</u> <u>Virtual Targets</u>	Must be the same as the pa number or special character		at least 8 alphanumeric characters v	vith at least one			
Help			< Back Next > Finis	h Cancel			

14). Configuring Node Manager screen appears.

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

	Fusion Middleware	e Configuration Wizar	d - Page 15	of 24		_ ×
Managed Servers						
Create Domain Templates	. 🖶 🖓 C	lone X Delete			🔊 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	soa_server1	147.2.207.96	7003		Disabled	SOA-MGD 🔻
Domain Mode and JDK Detabase Operation						
Database Configuration Type						
<u>Component Datasources</u>	à					
UDBC Test						
<u>Credentials</u>						
Weystore						
Advanced Configuration						
Administration Server						
Wode Manager						
Managed Servers						
Clusters						
Server Templates						
Coherence Clusters						
Machines	-					
Virtual Targets	-					
Help			< <u>B</u> ac	k <u>N</u> ext >	Einish	Cancel

15). The Managed Servers screen appears.

On the **Managed Servers** screen, new Managed Servers named: *oim_server1* and *soa_server1* are automatically created. In the **Listen Address** drop-down list, select the IP address of the host on which the Managed Server will reside or use the system name or DNS name that maps to a single IP address. The default **Server Groups** have already been selected for each server. Click **Next** to continue.

16). The **Clusters** screen appears.

Fusion Middleware Configuration Wizard - Page 16 of 26								
Clusters								
Templates		Add	X Delete			🔊 Di	s <u>c</u> ard Changes	
High Availability Options		Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS Port	Dynamic Server Groups	
Application Location Administrator Account		oim_cluster_1			0	0	Unspecified 🔻	
		soa_cluster_1			0	0	Unspecified 🔻	
Database Configuration Type Component Datasources JDBC Test Credentials Keystore Advanced Configuration Administration Server Node Manager	300000							
<u>Managed Servers</u> Clusters								
<u>Server Templates</u> <u>Dynamic Servers</u>								
Assign Servers to Clusters Coherence Clusters								
Help	•				< <u>B</u> ack N	ext > Einish	Cancel	

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 Dele	te		🔊 Dis <u>c</u> ard Changes			
High Availability Options Application Location		Name	Listen Port	SSL Listen Port	Enable SSL			
Administrator Account			J]					
Domain Mode and JDK Database Configuration Type								
Component Datasources								
<u>JDBC Test</u> <u>Credentials</u>								
Keystore								
Advanced Configuration Administration Server								
<u>Node Manager</u> Managed Servers								
<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 >	Einish Cancel			

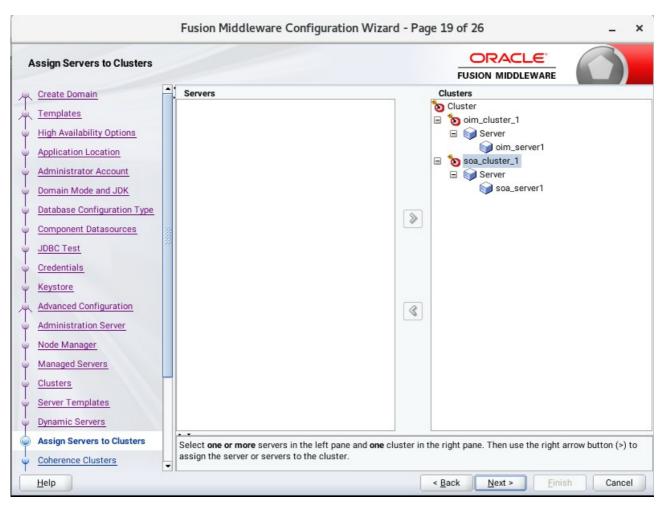
17). The Server templates screep appears.

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**.

	Fusion Midd	leware C	Configuration	n Wizard - I	Page 18 of 2	26		_ ×
Dynamic Servers								
Templates							Dis <u>c</u> ard	Changes
High Availability Options Application Location Administrator Account	Cluster Name	Server Name Prefix	Server Template	Dynamic Cluster Size	Machine Name Match Expression	Calculated Machine Names	Calculated Listen Ports	Dynamic Cluster
Domain Mode and JDK	oim_cluster_1	Disabled	Unspecifi•	Disabled	Disabled			
 Database Configuration Type 	soa_cluster_1	Disabled	Unspecifi 🔻	Disabled	Disabled			
<u>JDBC Test</u> <u>Credentials</u> <u>Keystore</u> <u>Advanced Configuration</u> <u>Administration Server</u> <u>Node Manager</u> <u>Managed Servers</u>								
<u>Clusters</u> <u>Server Templates</u>								
Dynamic Servers								
<u>Assign Servers to Clusters</u> <u>Coherence Clusters</u>	-							
Help					< <u>B</u> ack	<u>N</u> ext >	<u> </u>	Cancel

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

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



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	1						
Create Domain Templates	▲1 	🔊 Discard Changes					
High Availability Options	Cluster Name	Cluster Listen Port					
Application Location	defaultCoherenceCluster	7574					
Administrator Account							
Domain Mode and JDK							
Database Configuration Type							
Component Datasources							
JDBC Test							
<u>Credentials</u>							
Keystore							
Advanced Configuration							
Administration Server							
Wode Manager							
Managed Servers							
<u>Clusters</u>							
Server Templates							
Dynamic Servers							
Assign Servers to Clusters							
Coherence Clusters	-						
Help		< Back Next > Finish Cancel					

20). The Coherence Clusters screen appears.

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

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

	Fusion Middleware Configu	uration Wizard - Page 21 of 27	_ ×
Machines			
<u>Create Domain</u> <u>Templates</u> <u>High Availability Options</u>	Machine Unix Machine		Discard Changes
<u>Application Location</u>	Name	Node Manager Listen Address	Node Manager Listen Port
Administrator Account	suse_Machine_1	localhost 👻	5556
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	• •		
Coherence Clusters			
Help		< <u>B</u> ack <u>N</u> e:	xt > <u>Finish</u> Cancel

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

Fusion Middleware Configuration Wizard - Page 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	Servers							
Assign Servers to Clusters Coherence Clusters	Select one or more servers in the left pane and one machin assign the server or servers to the machine.	e in the right pane. Then use the right arrow button (>) to						
Help		< Back Next > Finish 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.

		Fusion Middlewa	re Configuration W	/izard - Page	23 of 27		_ ×
Virtual Targets							
Create Domain Templates		Add 🗶	Delete			🧳 Dis <u>c</u> ard	Changes
High Availability Options Application Location		Name	Target	Host Names	URI Prefix	Explicit Port	Port Offset
Administrator Account							
Domain Mode and JDK Database Configuration Type							
<u>Component Datasources</u> <u>JDBC Test</u>	10000						
<u>Credentials</u>							
Advanced Configuration							
Administration Server Node Manager							
Managed Servers							
<u>Clusters</u> <u>Server Templates</u>							
Dynamic Servers Assign Servers to Clusters		• •					
Coherence Clusters	J				20		
Help				<	Back Next >	<u>F</u> inish	Cancel

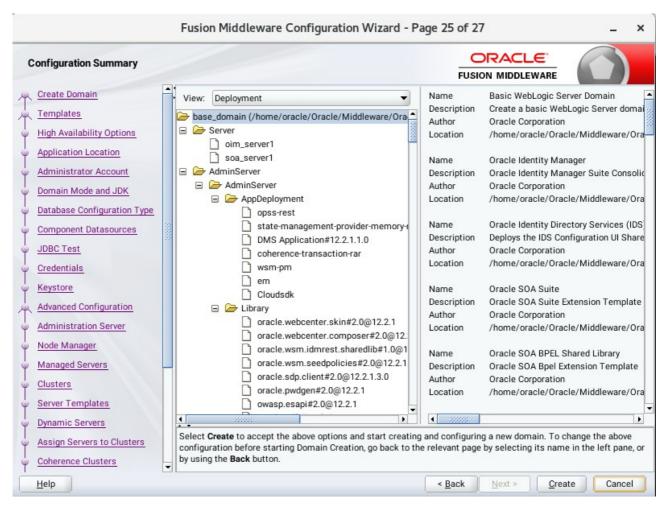
23). The Virtual Targets screep appears.

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

Fusion Middleware Configuration Wizard - Page 24 of 27							-	×
Partitions				-		6		
Templates		Add X Delete			9	Dis <u>c</u> ard	l Change:	s
High Availability Options		Nar	me					
Application Location								
Administrator Account								
Domain Mode and JDK								
Database Configuration Type								
Component Datasources	10000							
JDBC Test								
Credentials								
Keystore								
Advanced Configuration								
Administration Server								
Node Manager								
Managed Servers								
Ulusters								
Server Templates								
Dynamic Servers								
Assign Servers to Clusters		•						
Coherence Clusters	•							
Help			< <u>B</u> ac	ck <u>N</u> e	xt > Ein	ish	Cance	ł

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.



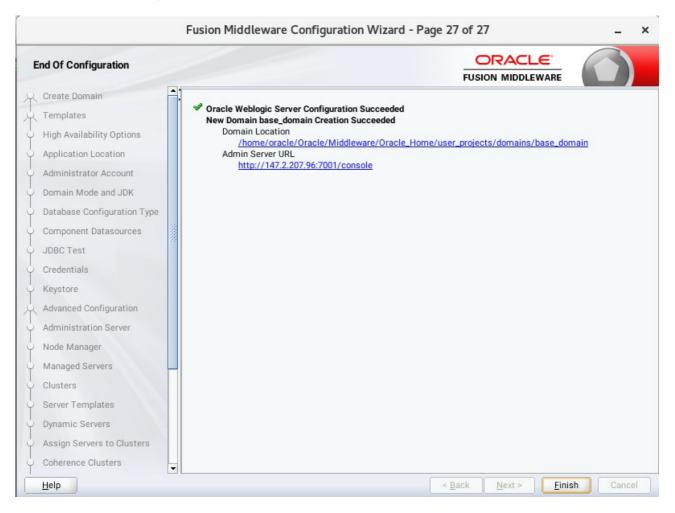
25). The Configuration Summary screen appears.

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

	F	Fusior	n Middleware C	onfiguratio	n Wizard - Pag	ge 26 of 2	7		-	×
Configuration Progress								_		
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Credentials Keystore Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Dynamic Servers Coherence Clusters		 OF OV Se Art Sti 	pp Unprocessed Arti PSS Processing WSM Processing tifacts Generation ring Substitution pst Processing	facts	100%					
<u>H</u> elp						< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Canc	el

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

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



27). The End of Configuration screen appears.

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

2-3. Performing Post-Configuration Tasks

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

1). Running the Offline Configuration Command.

To run the offlineConfigManager command, do the following:

• Set the following environment variables to the right values.

DOMAIN_HOME JAVA_HOME

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

./setDomainEnv.sh

• Run the following command from the location OIM_HOME/server/bin/:

./offlineConfigManager.sh

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oracle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin> export DOMAIN_HO le/Middleware/Oracle_Home/user_projects/domains/base_domain oracle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin> export JAVA_HOME _SW/Java/jdk1.8.0_161 oracle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin> chmod +x offline oracle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin> chmod +x offline	E=/home/oracle eConfigManage	e/ORAC	- 1

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Dracle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin> chmod +x offlineConfigManager.sh pracle@hpgen9-01:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin> ./offlineConfigManager.sh pwd===> /home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin DIM Home===> /home/oracle/Oracle/Middleware/Oracle_Home/idm WW Home===> /home/oracle/Oracle/Middleware/Oracle_Home cp: -r not specified; omitting directory '/home/oracle/Oracle/Middleware/Oracle/Middleware/Oracle/Vacle/Nacle/Va
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Initializing WebLogic Scripting Tool (WLST)
Welcome to WebLogic Server Administration Scripting Shell
Type help() for help on available commands
reading Domain> base_domainat path> /home/oracle/Oracle/Middleware/Oracle_Home/user_projects/domains/base_
domain Session started for modification. New Token Issuer Trust document named "tokenissuertrustWLSbase_domain" created. To use the new document in the domain configuration,you must run the setWSMConfiguration command where category = "TokenIssuerTrust", property name = "name" and value = "tokenissuertrustWLSbase_domain".
A new property "name" within category "TokenIssuerTrust" has been added. The values "[tokenissuertrustWLSbase_domain]" have been added to property "name" within category "TokenIssuerTru
st". Configuration properties associated with the context "/WLS/base_domain" has been created. Token Issuer Trust document named "tokenissuertrustWLSbase_domain" selected in the session.
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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 × P. • ig/jps-config-jse.xml is updated. <jul 12,="" 2018="" 4:08:42,907="" gmt+08:00="" pm=""> <info> <oracle.iam.0impostconfigmanager> <bea-0000000> <exiting updatejps<br="">ConfigXMLForWLS() method of JPSConfigXMLUpdate class> Jul 12, 2018 4:08:42 PM oracle.iam.0IMPostConfigManager.config.util.JPSConfigXMLUpdate updateJPSConfigXMLForWLS INFO: Exiting updateJPSConfigXMLForWLS() method of JPSConfigXMLUpdate class <jul 12,="" 2018="" 4:08:42,907="" gmt+08:00="" pm=""> <info> <oracle.iam.0impostconfigmanager> <bea-000000> < Jul 12, 2018 4:08:42,907 PM GMT+08:00> <info> <oracle.iam.0impostconfigmanager> <bea-000000> < Judated jps-config-jse.xml Details.> Jul 12, 2018 4:08:42 PM oracle.iam.0IMPostConfigManager.config.0IMConfigManager updateJPSConfig Jul 12, 2018 4:08:42 PM oracle.iam.0IMPostConfigManager.config.0IMConfigManager updateJPSConfig</bea-000000></oracle.iam.0impostconfigmanager></info></bea-000000></oracle.iam.0impostconfigmanager></info></jul></exiting></bea-0000000></oracle.iam.0impostconfigmanager></info></jul>
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3. Verifying Oracle Identity Manager(OIM) Installation and Configuration

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

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

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

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Starting the Admin Server, go to the DOMAIN_HOME/bin directory and run ./startWebLogic.sh.

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

Server state changed to RUNNING.

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

1). Access to Administration Server Console

Login Page: Applications Places Firefox Thu 16:18 ●) () Oracle WebLogic Server Administration Console - Mozilla Firefox × _ Oracle WebLogic Server ... × + ← ① 🔏 | http://hpgen9-01:7001/console/login/LoginForm.jsp 90% C Q Search ☆ 自 ♣ ≡ ⋒ ORACLE' WebLogic Server Administration Console 12c Welcome Log in to work with the WebLogic Server domain Username: weblogic Password: Login

Home Page:

Applications Places Firefox			Thu 16:18 🐠 🖒
	Home Page - base_do	omain - WLS Console - Mozilla Firefox	_ = ×
Home Page - base_doma ×	+		
🗲 🛈 🎤 http://hpgen9-01:700	1/console/console.portal?_nfpb=true	e8 🖾 90% 🛛 C 🔍 Search	☆ 自 ♣ ☆ ♥ ☰
ORACLE WebLogic Server Adr	ninistration Console 12c		2
Change Center	🟦 Home Log Out Preferences 🔤 Record Hel	lp Q	Welcome, weblogic Connected to: base_domain
View changes and restarts	Home		
Click the Lock & Edit button to modify, add or delete items in this domain.	Home Page		
Domain Structure Dase_domain ⊕ - Domain Partitions ⊕ - Forwironment ↦ - Deployments ↦ - Security Realms ➡ - Interoperability ⊕ - Diagnostics	Information and Resources Helpful Tools Configure applications Configure GridLink for RAC Data Source Configure a Dynamic Cluster Recent Task Status Set your console preferences Oracle Enterprise Manager Domain Configurations Domain Domain	General Information Common Administration Task Descriptions Read the documentation Ask a question on My Oracle Support Resource Group Templates Resource Group Templates	Interoperability • WTC Servers • Joit Connection Pools
	Domain Partitions	Resource Groups	
How do I	Domain Partitions Partition Work Managers	Resource Groups Deployed Resources	Diagnostics Log Files Diagnostic Modules
Search the configuration	Environment	Deployments	Built-in Diagnostic Modules
Use the Change Center	Servers		Diagnostic Images
Record WLST scripts	Clusters Server Templates	Services	Request Performance Archives
Change Console preferences Manage Console extensions	Migratable Targets	 Messaging JMS Servers 	Context
Monitor servers	Coherence Clusters	 Store-and-Forward Agents 	• SNMP
L	Machines	 JMS Modules 	Interceptors
System Status	Virtual Hosts	Path Services	
Retrieving Health Data	Virtual Targets	 Bridges 	Charts and Graphs

Applications Places Firefox							Thu	16:18	■(1))) (
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Summary of Servers - ba ×	+									
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DRACLE WebLogic Server Admi	inistration Console	12c								Q
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fiew changes and restarts	Home >Summary of	of Servers								
lick the Lock & Edit button to modify, add or	Summary of Server	'8								
elete items in this domain.	Configuration	Control								
Lock & Edit										
Release Configuration	A server is an inst	ance of WebLogic Server t	hat runs in its o	wn Java Virtual Machi	ne (JVM) and has its own c	onfiguration.				
		arizes each server that has								
main Structure	This page summ	anzes each server that has	beenconingui	ed in the current webb	ogic Server domain.					
se_domain - Domain Partitions	65									
-Environment										
Deployments 3Services	Customize this	table								
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-Interoperability -Diagnostics	Click the Lock & E	Edit button in the Change Ce	enter to activat	e all the buttons on this	s page.					
	New Clon	e Delete					Showing 1 to 3	of 3 Previou	us Next	ı
	Name 🗞	ту	pe	Cluster	Machine	State	Health	Listen Po	ort	1
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m do I	oim_serv	er1 Cor	nfigured	oim_cluster_1	suse_Machine_1	SHUTDOWN	Not reachable	14000		1
Create Managed Servers	soa_serv	er1 Cor	nfigured	soa_cluster_1	suse_Machine_1	SHUTDOWN	Notreachable	7003		1
Clone servers	New Clon	e Delete					Showing 1 to 3	of 3 Previou	us Next	Ē
Delete Managed Servers										
Delete the Administration Server Start and stop servers										
View objects in the JNDI tree										
ystem Status 😑										

 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

 Applications
 Places

 Firefox
 Thu 16:19

Thu 16:19 🐠 😃

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delete items in this domain.	Configuration Monitoring	g Notes							- 11
Lock & Edit Release Configuration	Node Manager Status	ode Manager Log							
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Domain Structure base_domain	This page allows you to vie	w current status information for the Node Manager ins	tance configured for	this machine.					- 11
Domain Partitions	Status:	Reachable		Current status of this Nod	le Manager.	More Info			
Environment Deployments									- 11
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- Interoperability									
Diagno stics									
How do I									
Monitor Node Manager status									
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Create and configure machines									
System Status									- 1
Health of Running Servers as of 4:19 PM									- 1
Failed (0)									- 1
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Viewing the summary of servers:

2). Access to Enterprise Manager Console.

Login Page:

Sign in - Oracle Enterprise Manager - Mozilla Firefox • • • * Settings for suse_Machin * Sign in - Oracle Enterpris * + • • • • • • • • • • • • • • •	Applications Places Firefox			TI	nu 16:2	21	(I)	С
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ORACLE ENTERPRISE MANAGER FUSION MIDDLEWARE CONTROL 12c								
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Home Page:

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16 Down > 2 Up	soa_server1	+	soa_cluster_1	suse_Machine_1	Shutdown	t	Jnknown	
~	Columns Hidden	34					Serve	ers 3 of 3

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

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2 bown	Name	Status	Cluster	Machine	State	Health	
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Deployments	oim_server1	+	oim_cluster_1	suse_Machine_1	Running	OK	
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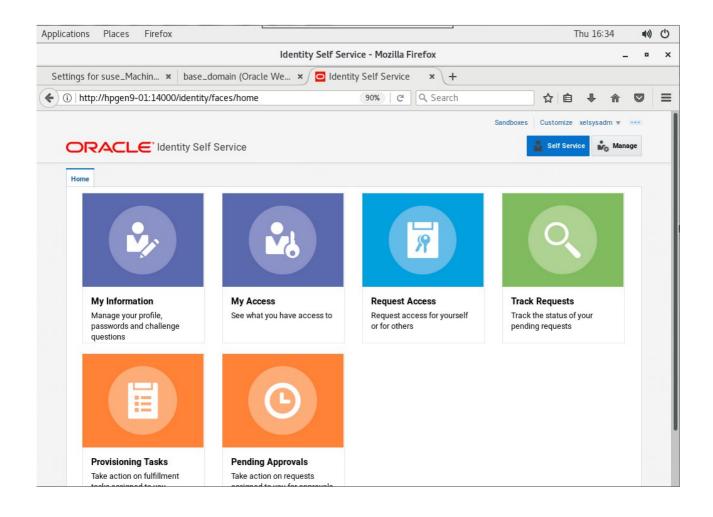
After they start up successfully, each managed server is listed as Running.

Oracle Fusion Middleware 12c on SLES 15

3). Access	s to Ol	M Identity	Self Service – URL: <u>http://host:port/identity</u>
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	Identity Self	f Service - Mozilla	Firefox				_	
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Oracle Fusion Middleware 12c on SLES 15



Oracle Fusion Middleware 12c on SLES 15

1). Access to OIM Ident	ity System Administration	Console - URL:htt	p://host:port/sysadr	min
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5). Access to Oracle SOA infrastructure Main Page – URL: http://host:port/soa-infra

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

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	-		×
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Click on Login. Then click Yes to a	confirm.	
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 will be subsequently 2. Use Design consol 3. New Connector dev 4. New ICF based corprocess. Refer produ Application installed Self-Service UI. Java be done using Appli 	e will be deprecated in an upcomming release and y desupported. Are you sure you want to continue ? e for Non-ICF based connectors if you are upgrading from previous release velopment following Non-ICF manner has been deprecated. Annector development should use new Application Template based install uct documentation for simplified Application On-boarding introduced in 1 I via new wizard would be managed through Application On-boarding wiza a Task & Pre-populate Adapter related customization for Template based a cation On-boarding wizard. Design Console is still operational because of t, now Schema Attribute, Process Task, Adapter related customization shor soarding UI. <u>Yes</u> <u>No</u>	I2c release. ard available on upplication should backward

Viewing OIM Design Console.

Orac	cle Identity Manager Design Console : connected to jdbc:oracle:thin:@//hpgen9-01:1521/SUSE _ v ×
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Oracle Identity Manager Design Cont Oracle Identity Manager Design Cont Resource Management If Resource Type Definition Rule Designer Resource Objects Process Management Email Definition Event Handler Manager Oracle Manager	Form Designer Table Information Table Name Description Preview Form Version Information Latest Version Active Version
Data Object Manager Data Object Manager Process Definition Administration Q Lookup Definition Development Tools # Adapter Factory @ Adapter Manager	Operations Create New Version Current Version Make Version Active Properties Administrators Usage Pre-Populate Default Columns User Defined Fields Additional Columns Child Table(s) Object Permissions
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	Delete
	Adapter Manager 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. You can extend this topology to make it highly available and secure so it is suitable for a production system.

SUSE ISV Engineering Team Oct 10, 2019 https://www.suse.com