Oracle Fusion Middleware 12c on SLES 15 SP2

Oracle Fusion Middleware 12c on SUSE Linux Enterprise Server 15 SP2 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 SP2. Details are provided for Intel x86-64 versions of both Oracle FMW 12c and SUSE Linux Enterprise Server 15 SP2. Similar steps apply to other platforms (x86, ia64, System z, etc.).

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

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 SP2- (x86-64) (<u>http://download.suse.de/install</u>)

Oracle

• Database 12cR2 (12.2.0.1.0) - (x86_64) (https://www.oracle.com/downloads/#category-database)

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

• WebLogic Server 12cR2 (12.2.1.4) (fmw_12.2.1.3.0_wls_Disk1_1of1.zip) (<u>https://www.oracle.com/downloads/#category-middleware</u>)

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

• Forms and Reports 12c (12.2.1.4.0) - (x86_64) (https://www.oracle.com/downloads/#category-middleware)

• WebTier 12cR2 Oracle HTTP Server (12.2.1.4.0) - (x86_64) (<u>https://www.oracle.com/downloads/#category-middleware</u>)

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

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

• Oracle Identity and Access Management 12cPS4 (12.2.1.4.0) – (Generic Quick Installer) (<u>https://www.oracle.com/downloads/#category-middleware</u>)

Testing machine information

- Dell Laptop Precision 5530
- CPU: 6 * Intel(R) Core(TM) i7-8850H CPU @ 2.60GHz
- RAM: 32 GB
- NIC: 2
- Local HDD: 1TB + 512GB
- Operating System: SUSE Linux Enterprise Server 15 SP2 (x86_64)
- Kernel version: 5.3.18-22-default

Prerequisites

1. Installing SUSE Linux Enterprise Server 15 SP2

1-1. Install SUSE Linux Enterprise Server 15 SP2 on your testing machine. To do so, follow the instructions in the official SUSE Linux Enterprise Server documentation at https://www.suse.com/documentation/.

Figure 1-1 Software Installed as shown below

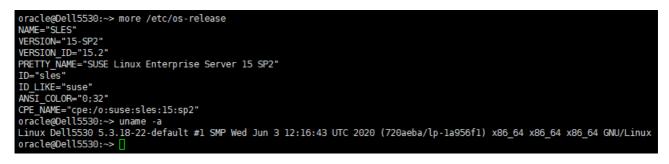
ile	<u>P</u> ac	kage Configuration Dependencies	<u>O</u> pt	tions E <u>x</u> tra	as <u>H</u> elp					
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		Pattern *								
		Base Technologies	_	Package		Summary		d (Available)	Size
1	÷	Minimal Base System		branding-		SLE Brand File	15-18.5	—		1.6 KiE
					ates-mozilla	CA certificates fo System Clock Syr				945.5 KiB 442.4 KiB
	H	Enhanced Base System	V			Auxiliary package				442.4 KIE 181 B
3 🤅	4	AppArmor	Ĭ			Cron Daemon	1.5.1-6.			248.5 KiB
	_					Bootloader with	s 2.04-7.	9		24.0 MiB
	~>	32-Bit Runtime Environment		kbd		Keyboard and Fo	2.0.4-1	4.38		4.2 MiE
		Laptop		openssh		Secure Shell Clie	8.1p1-3	.21		6.3 MiE
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3 (M	YaST System Administration			base-minimal_base					58 E
-		Desktop Functions		polkit		PolicyKit Authori				341.0 KiB
1		Office Software			ault-privs	SUSE PolicyKit de Utilities to Manad			/D/24-1.14	3.1 MiB
	~		i 🛱			UEFI shim loader				3.6 MiB
	_	Graphical Environments			svsvinit	System V init too				4.4 KiB
3 (ë	GNOME Desktop Environment (Ba		, util-linux	,	A collection of ba				4.9 MiB
2		CNOME Dealter Environment (V11)		which	·	Dicalausuharaa	2 21 2 2	<u>10</u>		75 1 1/10
3 (C	GNOME Desktop Environment (X11)	D	escription	<u>T</u> echnical Data	Dependencies	<u>V</u> ersions	File List	Change Lo	g
3 🛛	X	Fonts	br	randing-SL	- SLE Brand File	·				
3	X	X Window System		2	contains the file /etc	/SUSE_brand_and	its name is	uced as a t	rigger for inc	tallation o
•		Primary Functions			r brand packages.	/SOSE-Drand, and	its name is	useu as a u	nggeriorins	lattation o
2	2	Live Patching	Su	pportability	: unknown					
	- 14	Oracle Server Base								
, 1		Development								
		•								
3 🚦	n.	Base Development								

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

			YaST2					:
<u>F</u> ile	Package Configuration Dependencies	<u>O</u> ptions E <u>x</u> tra	s <u>H</u> elp					
<u>V</u> iev	w Search Installation Summary	Patter <u>n</u> s						
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•	Base Technologies	 Package 			Summary	1	nstalled (Availab	Size
Ø	Minimal Base System	orarun patterns-b	ase-basesystem		An Environment Minimal Base Sy			72.8 KiE 56 E
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	🐼 AppArmor							
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	Laptop							
	🕤 YaST System Administration							
•	Desktop Functions							
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	GNOME Desktop Environment (X11)	Description	Technical Data	Dependenci	es Versions	File List	Change Log	
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9	🔀 X Window System		reates the user an	5		o Oracla a		blac
			ameters to values					
•	Primary Functions						or automated star	
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_		stop of Oracle software pack other package	ages needed to ins s are included auto	tall and use Or matically (whe	stop time. It also acle, so that whe en you install via	o includes en you sele YaST2) or	dependencies for ect this package t that you are at le	other he ast
• • •	🛵 Live Patching	stop of Oracle software pack other package reminded to in	ages needed to ins	tall and use Or matically (whe nstalling via th	stop time. It also acle, so that whe n you install via e rpm command	o includes en you sele YaST2) or	dependencies for ect this package t that you are at le	other he ast

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

Figure 1-3 Operating System information and kernel version



1-2. Special Startup Requirements.

1). To set the SHMMAX kernel parameter.

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

kernel.shmmax = 4294967295

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

kernel.shmall = 9272480

Activate the new SHMMAX setting by running the command:

/sbin/sysctl -p

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

ulimit -a

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

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

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

oracle soft stack 10240

then reboot the machine.

2. Installing Oracle Database 12cR2

2-1. Log in to the target system (SUSE Linux Enterprise Server 15 SP2 64-bit OS) as a non-admin user. Download Oracle Database 12cR2 (12.2.0.1.0) x86_64 from https://www.oracle.com/downloads/#category-database.

2-2. Oracle Database 12cR2 (12.2.0.1.0) is officially certified for SUSE Linux Enterprise Server 15 (4.12.14-25-default or later) x86_64. For detailed instructions please use Official Oracle Install guides: http://docs.oracle.com/en/database/database.html.

Figure 2-1 Make sure the Database up and running

oracle@Dell5530:~> export ORACLE HOME=/home/oracle/app/product/12.2.0/dbhome 1/ oracle@Dell5530:~> export ORACLE_SID=suse oracle@Dell5530:~> /home/oracle/app/product/12.2.0/dbhome_1/bin/sqlplus /nolog SQL*Plus: Release 12.2.0.1.0 Production on Mon Aug 24 23:45:27 2020 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 9898557440 bytes Fixed Size 12169752 bytes Variable Size 2013269480 bytes 7851737088 bytes Database Buffers Redo Buffers 21381120 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@Dell5530:~>

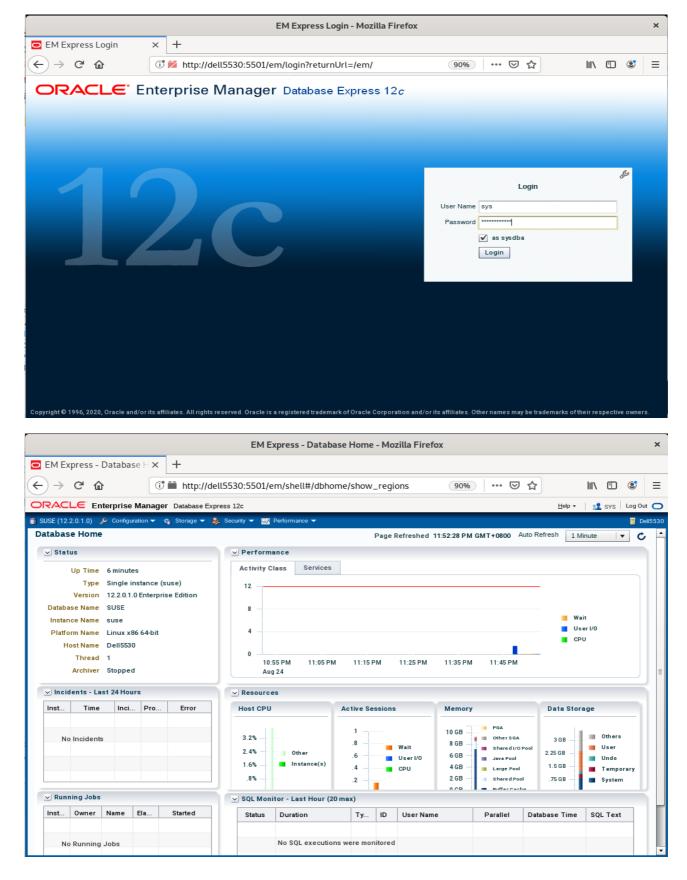


Figure 2-2 Access to Oracle Database 12cR2 Enterprise Manager

(**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 _ Create a database - Step 2 of 14
Se	ect Database Creation Mo	de	
ę	Database Operation	Typical configuration	
	Creation Mode	<u>G</u> lobal database name:	suse
Ý	Deployment Type	Storage type:	File System 👻
Ĵ	Database Identification Storage Option	Database files location:	{ORACLE_BASE}/oradata/{DB_UNIQUE_NAME}
9	Fast Recovery Option	Fast Recovery Area (FRA):	{ORACLE_BASE}/fast_recovery_area/{DB_UNIQUE_NAME} Browse
ļ	Database Options	Database <u>c</u> haracter set:	AL32UTF8 - Unicode UTF-8 Universal character set
Ĭ	Configuration Options Management Options	Administrative password:	
J	User Credentials	Confirm password:	
	Creation Option Summary Progress Page	Cr <u>e</u> ate as Container databas P <u>l</u> uggable database name:	e
9	Finish	O Advanced configuration	
	<u>H</u> elp		< <u>B</u> ack <u>N</u> ext > Einish Cancel

)

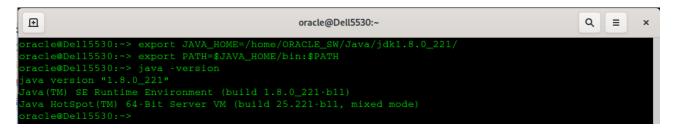
3. Installing Java

3-1. Log in to the target system (SUSE Linux Enterprise Server 15 SP2 64-bit OS) as a non-admin user. Download Java SE Development Kit 8 (jdk-8u221-linux-x64.tar.gz) from https://www.oracle.com/downloads/#category-java.

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

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

Figure 3-1 Java information



Oracle 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_221 and later is installed.

1-2. Log in to the target system (SUSE Linux Enterprise Server 15 SP2 64-bit OS) as a non-admin user. Download the Oracle WebLogic Server 12cR2 (12.2.1.4.0) from https://www.oracle.com/downloads/#category-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_12.2.1.4.0_wls_Disk1_1of1.zip) file and launch the installation program by running 'java -jar fmw_12.2.1.4.0_wls.jar'

For the actual installation, follow the steps below:

1). Installation Inventory Setup.

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

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

2). Welcome.

V	elcome	ORACLE
		FUSION MIDDLEWARE
)	Welcome	
	Auto Updates	Welcome to the Oracle Fusion Middleware 12c (12.2.1.4.0) WebLogic Server and Coherence Installer.
	Installation Location	Use this installer to create a new Oracle home that contains the Oracle WebLogic Server and Oracle
	Installation Type	Coherence software. You can use this software to configure a WebLogic Server domain for the deployment of Java applications.
	Prerequisite Checks	For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware documentation library.
	Installation Summary	Context-sensitive online help is available from the Help button.
	Installation Progress	Context-sensitive online help is available from the <u>H</u> elp button.
	Installation Complete	
		Copyright © 1996, 2019, Oracle and/or its affiliates. All rights reserved.

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

3). Auto Updates.

Oracle Fus	ion Middleware 12c We	bLogic Server and C	oherence Insta	allation - Step 2 of a	3 ×
Auto Updates					
Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Progress Installation Complete	Skip <u>A</u> uto Updates Select patches from dir Location: Search <u>My</u> Oracle Supp Username: Password: Prox Search Search				Browse
Help			<	Back <u>N</u> ext >	Einish Cancel

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

4). Installation Location.

Oracle F	usion Middleware 12c WebLogic Server and Coherence Installation - Step 3 of 8
Installation Location	
Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Progress Installation Complete	Oracle Home: Imme/oracle/Oracle/Middleware/Oracle_Home Imme/oracle/Oracle/Middleware/Oracle Home Features are installed at selected Oracle Home. Imme/oracle/Oracle/Oracle Home. Imme/oracle/Oracle/Oracle/Oracle Home.
	This page only shows Feature Sets installed at the selected Oracle Home. It does not show Feature Sets installed anywhere else.
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.

stallation Type		
Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary		
Installation Complete	 Oracle Fusion Middleware 12c WebLogic Server and Coherence 12.2.1.4.0 Core Server Core Application Server 12.2.1.4.0 Coherence Product Files 12.2.1.4.0 Web 2.0 HTTP Pub-Sub Server 12.2.1.4.0 WebLogic SCA 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 Administrative Tools Administration Console Additional Language Help Files 12.2.1.4.0 Cle WLS Config 12.2.1.4.0 Database Support Third party JDBC Drivers 12.2.1.4.0 Open Source Components Fusion Middleware Maven Support 12.2.1.4.0 Oracle Installation Infrastructure FMW Platform Generic 12.2.1.4.0 OPatch 13.9.4.2.1 	

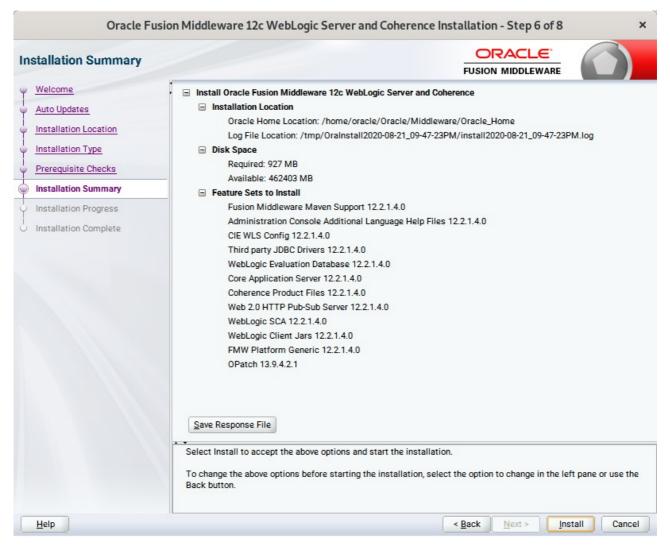
Use this screen to determine the type of installation you want to perform, then click **Next** to continue.

6). Prerequisite Checks.

Oracle Fusion	Middle	ware 12c WebLogic Server and Coherence Installation - Step 5 of 8	s ×
Prerequisite Checks			
Welcome			
Auto Updates		100%	
Installation Location	1	Checking operating system certification	
ullinstallation Type	1	Checking Java version used to launch the installer	
Prerequisite Checks			
Installation Summary			
Unstallation Progress			
O Installation Complete			
	Stop	Rerun Skip ✓ View Successful Tasks	View Log
-			
	and the second sec	cking operating system certification pected result: One of oracle-6, oracle-7, redhat-7, redhat-6, SuSE-11, SuSE-12, SuSE-15	
	A	ctual Result: SuSE-15-SP2	
		neck complete. The overall result of this check is: Passed cking Java version used to launch the installer	
		opected result: 1.8.0_191	
		ctual Result: 1.8.0_221 neck complete. The overall result of this check is: Passed	
Help		< Back Next >	Einish Cancel

Prerequisite Checks results will be shown as above, Oracle Fusion Middleware 12c is certified on SLES 15(+), 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 Fusi	Middleware 12c WebL	Logic Server and Coherence Installation - Step 7 of 8	×
Installation Progress			
Welcome Auto Updates		100%	
Prerequisite Checks	 Prepare Copy Generating Librarie Performing String 5 		
Installation Progress Installation Complete	 ✓ Linking ✓ Setup 		
	Saving the inventor Post install scripts		
	View <u>M</u> essages	View Successful Tasks	View <u>L</u> og
Help		Hardware and S Engineered to Worl < Back Next > E	

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.

Welcome Auto Updates Installation Location Oracle Home Location: /tome/oracle/Oracle/Middleware/Oracle_Home Log File Location: /tome/oracle/Middleware/Oracle_Home Log File Location: /tome/oracle_Home Log File Location: /tome/oracle_Home Log File Location: /tome/oracle_Home Log File Location: /tome/oracle_Home Log File Valuation Database 122.1.40 WebLogic SCA 122.1.40 WebLogic Sca 12.2.1.40 Porach 1	Installation Complete	
Automatically Launch the Configuration Wizard	Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Progress	 Installation Location Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home Log File Location: /tmp/Oralnstall2020-08-21_09-47-23PM/install2020-08-21_09-47-23PM.log Feature Sets Installed Successfully Fusion Middleware Maven Support 12.2.1.4.0 Administration Console Additional Language Help Files 12.2.1.4.0 CIE WLS Config 12.2.1.4.0 Third party JDBC Drivers 12.2.1.4.0 WebLogic Evaluation Database 12.2.1.4.0 Coherence Product Files 12.2.1.4.0 Web 2.0 HTTP Pub-Sub Server 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 Full Market M
Oracle Fusion Middleware 12c WebLogic Server and Coherence installation completed successfully		
		Oracle Fusion Middleware 12c WebLogic Server and Coherence installation completed successfully

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 Midd	leware Configur	ation Wizard - I	Page 1 of 8			×
Configuration Type							
Create Domain Image: Image: I	What do you want Create a new of Update an exis Domain Location: Create a new doma	domain sting domain xacle/Oracle/Mido	lleware/Oracle_Hom				n <u>Br</u> owse
Help				< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

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

2). Templates.

	Fusion Middleware Configuration Wizard	- Page 2 of 8 ×
Templates		
Create Domain Femplates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	 Create Domain Using Product Templates: Filter Templates: Type here Include all selected template Available Templates Basic WebLogic Server Domain [wlserver] * WebLogic Advanced Web Services for JAX-RPC E WebLogic Advanced Web Services for JAX-WS Ex WebLogic Coherence Cluster Extension [oracle. WebLogic Coherence Cluster Extension [wlserver] 	ixtension [oracle_common] dension [oracle_common] .common]]
Help		< Back Next > Finish Cancel

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

3). Administrator Account.

	Fusion Middle	ware Configuration Wizard - Pa	ge 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	weblogic		with at least one
Help			< Back Next > Finis	sh 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	d - 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	rd, and do not poll	for applications to dep	
Help		< <u>B</u> ack	<u>N</u> ext > <u>Fini</u>	sh Cancel

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

5). Advanced Configuration.

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

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

6). Configuration Summary.

Configuration Summary		
 <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/Ora Name WebLogic Coherence Cluster Extensio Description Extend an existing WebLogic Server do Author Oracle Corporation Location /home/oracle/Oracle/Middleware/Ora
	Select Create to accept the above options and start creating configuration before starting Domain Creation, go back to the by using the Back button.	

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		
Create Domain	100%	
Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	 Copy Unprocessed Artifacts Security Processing Artifacts Generation String Substitution Post Processing 	
Help	< Back Next > Finis	h Cancel

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

8). End Of Configuration.

	Fusion Middleware Configuration Wizard - Page 8 of 8
End Of Configuration	
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Oracle Weblogic Server Configuration Succeeded Mome/oracle/Concele/Middleware/Oracle_Home/user_projects/domains/base_domain Admin Serve URL http://Dell5530:7001/console

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

Ð	oracl	le@Dell5530	:ns/base_domain/bin	۹ =	×
	oracle@Dell5530:SW/WebLogic/12214		oracle@Dell5530:ns/base_domain/bin	×	•
listening <aug 21,<br="">listening</aug>	on 127.0.0.1:7001 for protocols 2020 10:11:10,514 PM GMT+08:00>	iiop, ti <notice></notice>	<pre><server> <bea-002613> <channel "default<br="">3, ldap, snmp, http.> <server> <bea-002613> <channel "default<br="">5b%eth0:7001 for protocols iiop, t3, lda</channel></bea-002613></server></channel></bea-002613></server></pre>	:[1]" is no	w
listening p.>	on 2408:8207:c53:a970:44d1:2509	:edd9:600	<server> <bea-002613> <channel "default<br="">a8%eth0:7001 for protocols iiop, t3, lda</channel></bea-002613></server>	up, snmp, h	ntt
listening <aug 21,<="" td=""><td>on 0:0:0:0:0:0:0:1%lo:7001 for 2020 10:11:11,012 PM GMT+08:00></td><td>protocols <notice></notice></td><td><pre><server> <bea-002613> <channel "default<br="">s iiop, t3, ldap, snmp, http.> <weblogicserver> <bea-000331> <started omain "base_domain" running in developme</started </bea-000331></weblogicserver></channel></bea-002613></server></pre></td><td>the WebLog</td><td>gic</td></aug>	on 0:0:0:0:0:0:0:1%lo:7001 for 2020 10:11:11,012 PM GMT+08:00>	protocols <notice></notice>	<pre><server> <bea-002613> <channel "default<br="">s iiop, t3, ldap, snmp, http.> <weblogicserver> <bea-000331> <started omain "base_domain" running in developme</started </bea-000331></weblogicserver></channel></bea-002613></server></pre>	the WebLog	gic
tening on <aug 21,<="" td=""><td>192.168.1.7:7001 for protocols</td><td>iiop, t3, <notice></notice></td><td><server> <bea-002613> <channel "default<="" td=""><td></td><td></td></channel></bea-002613></server></td></aug>	192.168.1.7:7001 for protocols	iiop, t3, <notice></notice>	<server> <bea-002613> <channel "default<="" td=""><td></td><td></td></channel></bea-002613></server>		
listening <aug 21,<="" td=""><td>on 127.0.0.1:7001 for protocols 2020 10:11:11,015 PM GMT+08:00></td><td>iiop, ti <notice></notice></td><td><pre><server> <bea-002613> <channel "default<br="">3, ldap, snmp, http.> <server> <bea-002613> <channel "default<br="">5b%eth0:7001 for protocols iiop, t3, lda</channel></bea-002613></server></channel></bea-002613></server></pre></td><td>:[1]" is no</td><td>w</td></aug>	on 127.0.0.1:7001 for protocols 2020 10:11:11,015 PM GMT+08:00>	iiop, ti <notice></notice>	<pre><server> <bea-002613> <channel "default<br="">3, ldap, snmp, http.> <server> <bea-002613> <channel "default<br="">5b%eth0:7001 for protocols iiop, t3, lda</channel></bea-002613></server></channel></bea-002613></server></pre>	:[1]" is no	w
			<server> <bea-002613> <channel "default<br="">e8%eth0:7001 for protocols iiop, t3, lda</channel></bea-002613></server>		
listening <aug 21,<="" td=""><td>on 0:0:0:0:0:0:0:1%lo:7001 for</td><td>protocols <notice></notice></td><td><server> <bea-002613> <channel "default<="" td=""><td></td><td></td></channel></bea-002613></server></td></aug>	on 0:0:0:0:0:0:0:1%lo:7001 for	protocols <notice></notice>	<server> <bea-002613> <channel "default<="" td=""><td></td><td></td></channel></bea-002613></server>		
<aug 21,<br="">n RUNNING</aug>	2020 10:11:11,015 PM GMT+08:00> mode.> 2020 10:11:11,147 PM GMT+08:00>	<notice></notice>	<pre><weblogicserver> <bea-000360> <the serv<br=""><weblogicserver> <bea-000365> <server a<="" pre=""></server></bea-000365></weblogicserver></the></bea-000360></weblogicserver></pre>		

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 Ad	× +						
← → C ^a	🛈 🔏 http://dell5530:7001/console/login/LoginForm.jsp	90% 🗵	☆	111		٢	≡
ORACLE We	bLogic Server Administration Console 12c						
			Welcome				
		Log in to work with the We					
		Username:	weblogic				
		Password:	•••••				
					Login		
WebLogic Server Version: 12.2.1.4.0 Copyright (c) 1996,2019, Oracle and/or its affi	lister All rinhte reserved						
	nares . An rights reserved. proration and/or its affiliates. Other names may be trademarks of their respective owners.						

Home Page - base_domain - WLS Console - Mozilla Firefox × Home Page - base_domain - × + <) → ⊂ ŵ (i) http://dell5530:7001/console/console.portal?_nfpb=true& E 90% ···· 🖂 🟠 |||\ 🗊 🔮 ≡ ORACLE WebLogic Server Administration Console 12c Q 🚹 Home Log Out Preferences 🛃 Record Help Q Welcome, weblogic Connected to: base_domain Change Center Home View changes and restarts Home Page Configuration editing is enabled. Future changes will automatically be activated as you modify, Information and Resources add or delete items in this domain. Helpful Tools General Information Domain Structure Common Administration Task Descriptions Configure applications Configure GridLink for RAC Data Source Read the documentation Environment Deployments Configure a Dynamic Cluster Ask a guestion on My Oracle Support Recent Task Status Services Security Realms Set your console preferences - Interoperability - Domain Configurations -Diagnostics Domain Resource Group Templates Interoperability • Domain Resource Group Templates WTC Servers Jolt Connection Pools Domain Partitions Resource Groups Domain Partitions Resource Groups Diagnostics -How do I... Partition Work Managers Log Files Search the configuration Deployed Resources Diagnostic Modules Use the Change Center Built-in Diagnostic Modules Environment Deployments Record WLST scripts Diagnostic Images Servers Change Console preferences Request Performance Clusters Services Manage Console extensions Messaging • Archives Server Templates Monitor servers Context Migratable Targets JMS Servers • SNMP Coherence Clusters Store-and-Forward Agents System Status - Interceptors Machines JMS Modules Virtual Hosts Path Services Retrieving Health Data ... • Virtual Targets Bridges Charts and Graphs Failed (0) Monitoring Dashboard Work Managers Data Sources Critical (0) Concurrent Templates Persistent Stores Overloaded (0) Resource Management XML Registries

Viewing WebLogic Server Admin Console - Home page

End of Oracle WebLogic Server Software.

Cracle Forms and Reports

1. Installing Oracle Forms and Reports

1-1. Prerequisites:

Installation of Oracle Forms and Reports requires:

- 1). Oracle Database 12cR2 (12.2.0.1.0) installed.
- 2). Oracle JDK 1.8.0 221 and later installed.
- 3). Oracle WebLogic Server 12cR2 (12.2.1.4.0) (Fusion Middleware Infrastructure Installer)

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

3-1). Installation Inventory Setup.

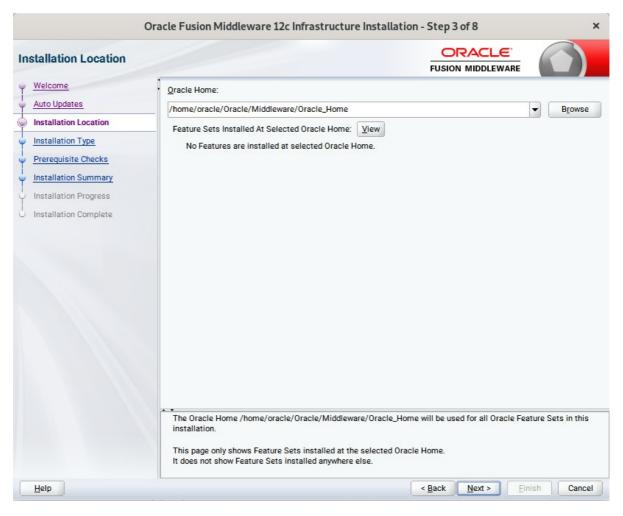
Installation Inventory Setup			
Central Inventory Directory			
	directory for all your oracle installation	ons.The installer will create a n	ew central
Inventory Directory:	/home/oracle/oralnventory		Browse
	Enter the full path for the director	V.	
	and the fair part for the directory	<i>r</i> -	
Operating System Group :	oinstall	··	•
Operating System Group :)
Operating System Group : Central Inventory Pointer Fi	oinstall Specify a group with write permise)
Central Inventory Pointer Fi Click OK to create a script	oinstall Specify a group with write permise	sion to the inventory directory ventory directory. Run this scrip	

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

3-2). Welcome.

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

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



3-3). Installation Location.

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

3-4). Installation Type.

Installation Type		
Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Progress Installation Complete	 Fusion Middleware Infrastructure With Examples Eusion Middleware Infrastructure Gracle Fusion Middleware 12c Infrastructure 12.2.1.4.0 Core Server Core Application Server 12.2.1.4.0 Coherence Product Files 12.2.1.4.0 Web 2.0 HTTP Pub-Sub Server 12.2.1.4.0 WebLogic SCA 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 MebLogic Client Jars 12.2.1.4.0 MethLogic Client Jars 12.2.1.4.0 MethLogic Client Jars 12.2.1.4.0 Cif WLS Config 12.2.1.4.0 MethLogic Evaluation Database 12.2.1.4.0 Third party JDBC Drivers 12.2.1.4.0 MethLogic Evaluation Database 12.2.1.4.0 Serion Middleware Maven Support 12.2.1.4.0 JRF and Enterprise Manager WLS for FMW 12.2.1.4.0 Oracle Automatic Diagnostic Repository Feature Set Group 	

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

3-5). 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/Middleware/Oracle_Home Log File Location: /tmp/Oralnstall2020-08-25_12-00-15AM/install2020-08-25_12-00-15AM.log Feature Sets Installed Successfully Third party JD8C Drivers 12.2.1.4.0 WebLogic Evaluation Database 12.2.1.4.0 Administration Console Additional Language Help Files 12.2.1.4.0 ClE WLS Config 12.2.1.4.0 Enterprise manager 12.2.1.4.0 MWP Platform Generic 12.2.1.4.0 OPatch 13.9.4.2.1 Toplink Developer 12.2.1.4.0 Core Application Server 12.2.1.4.0 Coherence Product Files 12.2.1.4.0 WebLogic SCA 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 MebLogic Client Jars 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 	
	Next Step(s): See the online help for next steps after installation. Oracle Fusion Middleware 12c Infrastructure installation completed successfully	

1-2. Log in to the target system (SUSE Linux Enterprise Server 15 SP2 64-bit OS) as a non-admin user. Download the Oracle Forms and Reports 12c (12.2.1.4.0) from https://www.oracle.com/downloads/#category-middleware.

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

1-3. Go to the directory where you downloaded the installation program. Extract the contents of these .zip ('V983392-01_1of2.zip' and 'V983392-01_2of2.zip') files and launch the installation program by running '**fmw_12.2.1.4.0_fr_linux64.bin**'.

For the actual installation, follow the steps below:

1). Welcome page.

8		Oracle Forms and Reports Installation - Step 1 of 9	×
w	elcome		
	Welcome Auto Updates Installation Location Installation Type JDK Selection Prerequisite Checks Installation Summary Installation Progress Installation Complete	Public MIDDLEWARE Welcome to Oracle Fusion Middleware 12c (12.2.1.4.0) Oracle Forms and Reports Installer. For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware document Context-sensitive online help is available from the Help button.	ation library.
		Copyright (c) 1999, 2019, Oracle and/or its affiliates. All rights reserved.	
[Help	< Back Next > Einist	h Cancel

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

2). The Auto Updates page appears.

C.	Oracle Forms and Reports Installation	- Step 2 of 9 ×
Auto Updates		
Welcome Auto Updates Installation Location Installation Type JDK Selection Prerequisite Checks Installation Summary Installation Complete	Skip <u>A</u> uto Updates Select patches from girectory Location: Search <u>My</u> Oracle Support for Updates Username: Password: Proxy Settings Search	Browse
Help	5	< Back Next > Finish Cancel

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

Oracle Forms and Reports Installation - Step 3 of 9 × ORACLE Installation Location FUSION MIDDLEWARE 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 12.2.1.4.0 . JDK Selection Core Server Core Application Server 12.2.1.4.0 Prerequisite Checks Coherence Product Files 12.2.1.4.0 Installation Summary Web 2.0 HTTP Pub-Sub Server 12.2.1.4.0 WebLogic SCA 12.2.1.4.0 Installation Progress WebLogic Client Jars 12.2.1.4.0 Installation Complete Administrative Tools Administration Console Additional Language Help Files 12.2.1.4.0 CIE WLS Config 12.2.1.4.0 Enterprise manager 12.2.1.4.0 Database Support Third party JDBC Drivers 12.2.1.4.0 WebLogic Evaluation Database 12.2.1.4.0 Open Source Components Fusion Middleware Maven Support 12.2.1.4.0 JRF and Enterprise Manager WLS for FMW 12.2.1.4.0 Oracle Automatic Diagnostic Repository Feature Set Group FMW Platform Generic 12.2.1.4.0 ODatch 120 / 21 The Oracle Home /home/oracle/Oracle/Middleware/Oracle_Home will be used for all Oracle Feature Sets in this installation. This page only shows Feature Sets installed at the selected Oracle Home. It does not show Feature Sets installed anywhere else. Help Cancel < Back Next > Finish

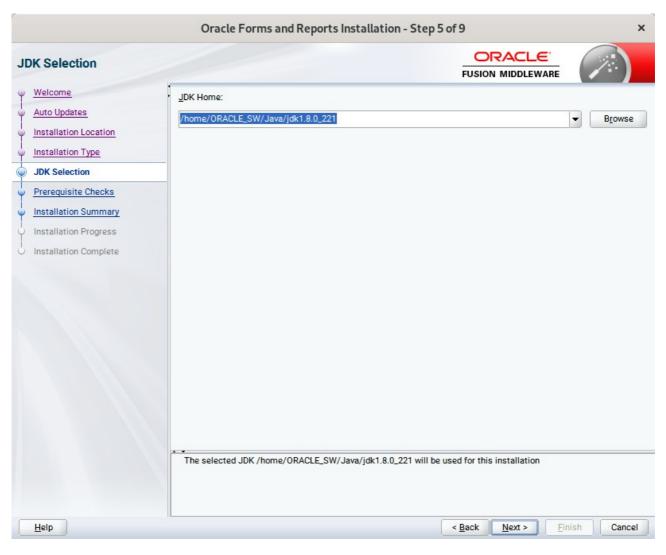
3). The Installation Location page appears.

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

Oracle Forms and Reports Installation - Step 4 of 9 × ORACLE Installation Type FUSION MIDDLEWARE Welcome O Standalone Forms Builder Auto Updates Installation Location Forms and Reports Deployment Installation Type JDK Selection Oracle Forms and Reports 12.2.1.4.0 E Forms Prerequisite Checks Oracle Forms Builder 12.2.1.4.0 Installation Summary Oracle Forms Deployment 12.2.1.4.0 Reports Installation Progress Oracle Reports 12.2.1.4.0 Installation Complete ⊟ OHS Oracle HTTP Server 12.2.1.4.0 Oracle Common Configuration Infrastructure CIE CAM Shared Config 12.2.1.4.0 Enterprise manager Plugin for Forms 12.2.1.4.0 Infrastructure Database Client LDAP Extended Components 12.2.1.4.0 OPatch 139421 Help < Back Next > Finish Cancel

4). The Installation Type page appears.

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



5). The JDK Selection page appears.

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

7	Or	acle Forms and Reports Installation - Step 6 of 9	×
Prerequisite Checks			
Y Welcome			
Ý Auto Updates		100%	
Installation Location	v	Checking operating system certification	
V Installation Type	3	Checking recommended operating system packages	
U JDK Selection	1	Checking kernel parameters	
Prerequisite Checks	1	Checking physical memory	
Installation Summary	~	Checking Java version used to launch the installer	
Unstallation Progress			
Unstallation Complete			
	Stop	Rerun Skip	View Log
		cking operating system certification	
	1	ecking recommended operating system packages ecking kernel parameters	
1	± Che	ecking physical memory	
	±)… ≪iche	cking Java version used to launch the installer	
Help		< <u>Back</u> <u>N</u> ext > <u>Finis</u>	h Cancel

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

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

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

Prerequisite Checks	
Welcome	100%
Auto Updates	100.4
Installation Location	Checking operating system certification
Installation Type	Checking recommended operating system packages
JDK Selection	Checking kernel parameters
Prerequisite Checks	Checking physical memory
Installation Summary	Checking Java version used to launch the installer
Installation Progress	Checking operating system certification
	Checking for binutils-2.19-11.28; found binutils-2.32-7.8.1-x86_64. Passed Checking for gcc-4.3-62.198; found gcc-7-3.3.22-x86_64. Passed Checking for gcc-c++-4.3-62.198; found gcc-c++-7-3.3.22-x86_64. Passed

This is due to the different naming of these packages on SLES15 (SP2). Oracle FUSION Middleware 12c (12.2.1.4) is certified on SLES15 (SP1), please make sure that the following packages(or later) are installed:

binutils-2.29.1-4.46.x86_64 gcc7-ada-7.3.1+r258812-2.15.x86_64 gcc-c++-7-1.563.x86 64 gcc-c++-32bit-7-1.563.x86 64 gcc-ada-7-1.563.x86_64 gcc-locale-7-1.563.x86 64 gcc-info-7-1.563.x86_64 gcc-7-1.563.x86 64 gcc7-c++-7.3.1+r258812-2.15.x86 64 gcc7-info-7.3.1+r258812-2.15.noarch gcc7-7.3.1+r258812-2.15.x86 64 gcc7-locale-7.3.1+r258812-2.15.x86 64 gcc7-c++-32bit-7.3.1+r258812-2.15.x86_64 gcc7-32bit-7.3.1+r258812-2.15.x86_64 gcc-32bit-7-1.563.x86_64 glibc-2.26-11.8.x86_64 linux-glibc-devel-4.15-1.47.noarch

glibc-devel-2.26-11.8.x86 64 glibc-locale-2.26-11.8.x86_64 glibc-extra-2.26-11.8.x86_64 glibc-32bit-2.26-11.8.x86 64 glibc-devel-32bit-2.26-11.8.x86 64 mksh-56c-1.10.x86 64 libaio1-0.3.109-1.25.x86 64 libaio1-32bit-0.3.109-1.25.x86 64 libaio-devel-32bit-0.3.109-1.25.x86_64 libaio-devel-0.3.109-1.25.x86_64 libcap2-2.25-2.41.x86_64 libcap-ng0-0.7.9-1.42.x86_64 libcap2-32bit-2.25-2.41.x86_64 libstdc++6-7.3.1+r258812-2.15.x86 64 libstdc++6-devel-gcc7-7.3.1+r258812-2.15.x86_64 libstdc++6-32bit-7.3.1+r258812-2.15.x86 64 libstdc++6-devel-gcc7-32bit-7.3.1+r258812-2.15.x86_64 libstdc++6-locale-7.3.1+r258812-2.15.x86 64 libstdc++-devel-7-1.563.x86_64 libgcc s1-7.3.1+r258812-2.15.x86 64 libgcc_s1-32bit-7.3.1+r258812-2.15.x86_64 make-4.2.1-5.48.x86_64 make-lang-4.2.1-5.48.noarch makedumpfile-1.6.3-5.6.x86 64 xorg-x11-7.6 1-1.22.noarch xorg-x11-server-1.19.6-6.19.x86_64 xorg-x11-fonts-7.6-3.9.noarch xorg-x11-driver-video-7.6_1-2.30.x86_64 xorg-x11-Xvnc-1.8.0-11.23.x86_64 xorg-x11-fonts-core-7.6-3.9.noarch xorg-x11-server-extra-1.19.6-6.19.x86_64 xorg-x11-essentials-7.6_1-1.22.noarch

)

7). The Installation Summary page appears.

Installation Summary				
Welcome Auto Updates Installation Location Installation Type JDK Selection Prerequisite Checks Installation Progress Installation Complete	 Install Oracle Forms and Reports Installation Location Oracle Home Location: /home/oracle/Oracle, Log File Location: /tmp/Oralnstall2020-08-25, Disk Space Required: 3361 MB Available: 460418 MB Feature Sets to Install Oracle Reports 12.2.1.4.0 Oracle Forms Builder 12.2.1.4.0 Oracle Forms Deployment 12.2.1.4.0 CIE CAM Shared Config 12.2.1.4.0 Enterprise manager Plugin for Forms 12.2.1.4 Oracle HTTP Server 12.2.1.4.0 Database Client LDAP Extended Components 	.12-07-09AM/install20		M.log
	Select Install to accept the above options and start the interpretation of the above options before starting the installar Back button.		to change in the le	ft pane or use ti

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.

8	Oracle Forms and Reports Installation - S	tep 8 of 9	×
Installation Progress			
Welcome Auto Updates Installation Location Installation Type JDK Selection Prerequisite Checks Installation Summary Installation Progress Installation Complete Installation Complete	✓ Prepare ✓ Copy ✓ Generating Libraries ✓ Performing String Substitutions ✓ Linking ✓ Setup ✓ Saving the inventory		
	Post install scripts View Messages View S	Successful Tasks Hardware and So Engineered to Work	
Help		< Back Next > Fin	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/Oralnstall2020-08-25_12-07-09AM/install2020-08-25_12-07-09AM.log Feature Sets Installed Successfully Oracle Reports 12.2.1.4.0 Oracle Forms Builder 12.2.1.4.0 Oracle Forms Deployment 12.2.1.4.0 CIE CAM Shared Config 12.2.1.4.0 Enterprise manager Plugin for Forms 12.2.1.4.0 Oracle HTTP Server 12.2.1.4.0 Database Client LDAP Extended Components 12.2.1.4.0 Pre-Existing Feature Sets OPatch 13.9.4.2.1
	Next Step(s): 1. Create a domain using the Configuration Wizard. 2. Start Node Manager and Domain Servers. Reference Installing and Configuring Oracle Forms & Reports available on OTN for detailed instructions.

Click **Finish** to dismiss the installer.

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

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

	Repository Cre	ation Utility - Step 4 of 8	3	×
pository Creation Utility				7
Welcome	Specify a unique prefix for all sch schemas later.	hemas created in this session, s	o you can easily locate, reference,	and manage the
Create Repository Database Connection Details	Select existing prefix:			
Select Components	<u>Create new prefix:</u>	DEV		
Schema Passwords	C greate new prents		ot start with a number. No special o	characters.
Map Tablespaces	Component		Schema Owner	
Summary	Oracle AS Repository			
Completion Summary	B AS Common Scho			
		astructure Services *	DEV_STB	
		m Security Services	DEV_OPSS	
	User Messagir	•	UMS	
	Audit Services		DEV_IAU	
	Audit Services		DEV_IAU_APPENI	
	Audit Services		DEV_IAU_VIEWER	
	Metadata Serv		MDS	
	Weblogic Serv	ices *	DEV_WLS	
	* Mandatory component. Ma	andatory components cannot be	deselected.	

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

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

Ensure the schema creation is successful.

	Repository	Creation U	tility - Step 8	of 8			
Repository Creation Utility						7	
Q Welcome	Database details:						
Create Repository	Host Name	Dell5530					
Database Connection Details	Port	1521					
Select Components	Service Name	SUSE					
	Connected As	sys					
Schema Passwords	Operation		d Data Load concu	urrently			
Map Tablespaces	Execution Time		47 seconds				
Summary							
Completion Summary	RCU Logfile	/tmp/RCU2	2020-08-25_00-31_	400857590/logs/rcu.log			
	Component Log Directory /tmp/RCU2020-08-25_00-31_400857590/logs			400857590/logs			
	Prefix for (prefixable) Schem	na DEV					
	Prefix for (prefixable) Schem Owners	na DEV					
	Owners	t	Status	Time		Click to view)	
	Owners Component Common Infrastructure Serv	t vices	Success	00:10.640(sec)	S	tb.log	
	Owners	t vices		00:10.640(sec) 02:30.009(min)	s op	tb.log ss.log	
	Owners Component Common Infrastructure Serv Oracle Platform Security Se	t vices	Success Success	00:10.640(sec)	s op ia	tb.log	
	Owners Component Common Infrastructure Serv Oracle Platform Security Se Audit Services Audit Services Append Audit Services Viewer	t vices	Success Success Success Success Success	00:10.640(sec) 02:30.009(min) 00:56.165(sec) 00:09.590(sec) 00:09.563(sec)	s op iau_a iau_v	tb.log oss.log au.log ppend.log riewer.log	
	Owners Component Common Infrastructure Ser Oracle Platform Security Se Audit Services Audit Services Append	t vices	Success Success Success Success	00:10.640(sec) 02:30.009(min) 00:56.165(sec) 00:09.590(sec)	s op iau_a iau_v	tb.log oss.log au.log ppend.log	
	Owners Component Common Infrastructure Serv Oracle Platform Security Se Audit Services Audit Services Append Audit Services Viewer	t vices	Success Success Success Success Success	00:10.640(sec) 02:30.009(min) 00:56.165(sec) 00:09.590(sec) 00:09.563(sec)	s op iau_a iau_v	tb.log oss.log au.log ppend.log riewer.log	

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 Midd	leware Configuration	Wizard - P	age 1 of 8				×
Configuration Type								
Reate Domain	1							_
A Templates								
Administrator Account								
Domain Mode and JDK								
Advanced Configuration								
Configuration Summary	What do you want	to do?						
Configuration Progress								
C End Of Configuration	Create a new of the second	domain						
	O Update an exis	ting domain						
	Domain Location:	racle/Oracle/Middleware	/Oracle_Home	:/user_proje	cts/domains/b	ase_doma	ain B <u>r</u> ow	se
	Create a new doma	in.						
<u>H</u> elp				< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cano	cel

2). The Templates screen appears.

	Fusion Middleware Configuration Wizard - Page 2 of 12	×
Templates		
Create Domain Femplates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Create Domain Using Product Templates: Filter Templates: Type here Include all gelected templates Include all previously applied templates Available Templates Basic WebLogic Server Domain [wlserver] * Oracle Forms Application Deployment Service (FADS) [forms] Oracle Forms (upgrade only) [forms] Oracle Reports Application (upgrade only) [reports] Oracle Enterprise Manager [em] Oracle Enterprise Manager [em] Oracle Enterprise Manager [em] Oracle HTTP Server (Collocated) [ohs] Oracle Reports Tools [Reports ToolsComponent] Out Descrete Domain Using Custom Template: Template location:	
Help	< <u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel	

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

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

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

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

3). The Application Location screen appears.

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

	Fusion Middle	ware Configuration Wizard - P	age 4 of 12	2	×
Administrator Account					
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Name Password Confirm Password Must be the same as number or special ch	weblogic	at least 8 alp	vhanumeric characters	s with at least one
Help			< <u>B</u> ack	<u>N</u> ext > <u>F</u> in	sh Cancel

4). The Administrator Account screen appears.

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

	Fusion Middleware Configuration Wizard	- Page 5 of 12	×
Domain Mode and JDK			
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain Mode Development Utilize boot.properties for username and password Production Require the entry of a username and password JDK Oracle HotSpot 1.8.0_221 /home/ORACLE_SW/. Other JDK Location:	l, and do not poll for applications to dep	
Help		< Back Next > Fini	sh 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.

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 Driver: *Oracle's Driver (Thin) for Service connections; Versions: Connection Parameters Connection <u>URL String</u> Host Name: Dell5530 DBMS/Service: suse Port: 1521 Schema Owner: DEV_STB Schema Password: <u>Get RCU Configuration</u> <u>Cancel</u> Connection Result Log Connecting to the database serverOK
	Binding local schema components with retrieved dataOK Successfully Done.
	Click "Next" button to continue.
Help	< Back Next > Finish Cancel

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

		F	usion Middleware Co	onfiguration	Wizard - Page	7 of 12		×
J	DBC Component Schema					-		
イインシンシンシーシーケッ	Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary	Ho DB Scl	ndor: Connection Parameters St Name: MS/Service: Connection Parameters St Name: Configuration for o Convert to G	Connection P P S Component scher SridLink O C	ort: chema Password: nas: onvert to RAC mult		O Don't cont	/ert
Ý	Configuration Progress		Component Schema	DBMS/Service	Host Name	Port	Schema Owner	Schema Password
9	End Of Configuration	Ы	LocalSvcTbl Schema	SUSE	Dell5530	1521	DEV_STB	
			WLS Schema	SUSE	Dell5530	1521	DEV_WLS_RUN	
			OPSS Audit Schema	SUSE	Dell5530	1521	DEV_IAU_APPEI	
			OPSS Audit Viewer Sche	SUSE	Dell5530	1521	DEV_IAU_VIEWE	
			OPSS Schema	SUSE	Dell5530	1521	DEV_OPSS	
	<u>H</u> elp				< <u>E</u>	Back <u>N</u> e	xt > <u>F</u> inis	h Cancel

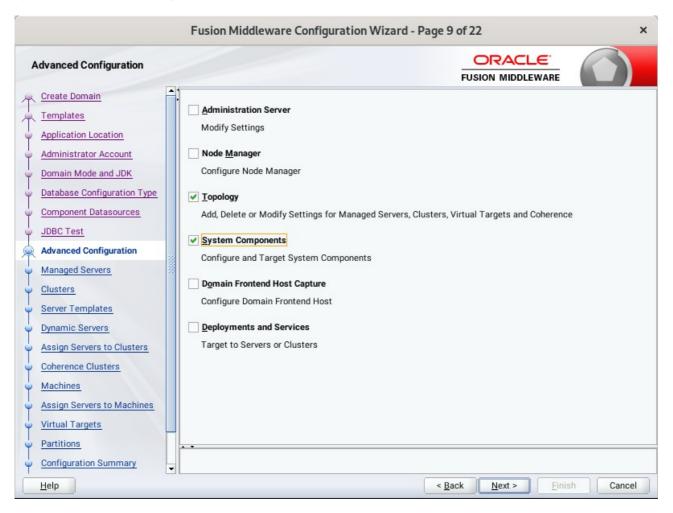
7). The JDBC Component Schema screen appears.

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

		F	usion	Middleware Configuration Wizard -	Page 8 of 12	×		
J	DBC Component Schema Test							
平	Create Domain		Status	Component Schema	JDBC Connec	ction URL		
	Templates		1	LocalSvcTbl Schema	jdbc:oracle:thin:@//Dell55	30:1521/SUSE		
0	Application Location		1	WLS Schema	jdbc:oracle:thin:@//Dell55	30:1521/SUSE		
I	Administrator Account		1	OPSS Audit Schema	jdbc:oracle:thin:@//Dell55	30:1521/SUSE		
Ĭ	The second second second		1	OPSS Audit Viewer Schema	jdbc:oracle:thin:@//Dell55	30:1521/SUSE		
Y	Domain Mode and JDK		1	OPSS Schema	jdbc:oracle:thin:@//Dell55	30:1521/SUSE		
ý	Database Configuration Type							
4	Component Datasources	L .						
	JDBC Test							
I	Advanced Configuration							
T		L .						
Y	Configuration Summary							
Ý	Configuration Progress		<u>T</u> est Se	lected Connections <u>Cancel Testing</u>				
0	End Of Configuration	Co	nnection	Result Log				
		Connection Result Log Component Schema=LocalSvcTbl Schema Driver=oracle.jdbc.OracleDriver URL=jdbc:oracle:thin:@//Dell5530:1521/SUSE User=DEV_STB Password=******** SQL Test=SELECT 1 FROM DUAL CFGFWK-64213: Test Successful! CFGFWK-64213: JDBC connection test was successful. CFGFWK-64213: No action required.						
	<u>H</u> elp				< Back Next > Fin	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.



9). The Advanced Configuration screen appears.

Select Topology and System Components. Click Next to continue.

Managed Servers	-						
Create Domain Templates		👍 Add 🖹 C	Ione X Delete			Dis <u>c</u>	ard Changes
Application Location Administrator Account		Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Group
		WLS_FORMS	All Local Addresses 🔻	9001		Disabled	FORMS-MA
Domain Mode and JDK Database Configuration Type		WLS_REPORTS	All Local Addresses 🔻	9002		Disabled	REPORTS-A
Advanced Configuration							
Advanced Configuration Managed Servers Clusters	50000						
Advanced Configuration Managed Servers	100000						
Advanced Configuration Managed Servers Clusters Server Templates	300000						
Advanced Configuration Managed Servers Clusters Server Templates Dynamic Servers	100000						
Advanced Configuration Managed Servers Clusters Server Templates Dynamic Servers Assign Servers to Clusters							
Advanced Configuration Managed Servers Clusters Server Templates Dynamic Servers Assign Servers to Clusters Coherence Clusters							
Advanced Configuration Managed Servers Clusters Server Templates Dynamic Servers Assign Servers to Clusters Coherence Clusters Machines							

10). The Managed Servers screen appears.

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

	Fusion Middlew	vare Configuration V	Vizard - Page 11	of 22	×
Clusters					
← Create Domain ← Templates	Add X	Delete			Dis <u>c</u> ard Changes
Application Location	Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS Port
Administrator Account	cluster_forms			0	0
Domain Mode and JDK	cluster_reports		~	0	0
Database Configuration Type					
<u>Component Datasources</u>					
JDBC Test					
Advanced Configuration					
Managed Servers					
Clusters					
 Server Templates 					
Dynamic Servers					
 Assign Servers to Clusters 					
<u>Coherence Clusters</u>					
Machines					
Assign Servers to Machines					
Virtual Targets					
Partitions					
Configuration Summary	-				
Help			< <u>B</u> ac	k <u>N</u> ext > <u>F</u> ir	nish Cancel

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

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

	Fusion Middleware Co	onfiguration Wizard - Pa	age 12 of 22	×
Server Templates				
Create Domain Templates	Add X Delete		[😡 Dis <u>c</u> ard Changes
Application Location	Name	Listen Port	SSL Listen Port	Enable SSL
Administrator Account Domain Mode and JDK	wsm-cache-server-template	7100	8100	
Database Configuration Type				
Component Datasources				
UDBC Test				
Advanced Configuration				
Managed Servers				
<u>Clusters</u>				
Server Templates				
Dynamic Servers				
Assign Servers to Clusters				
<u>Coherence Clusters</u>				
<u>Machines</u>				
Assign Servers to Machines				
<u>Virtual Targets</u> Partitions				
Configuration Summary	• •			
Help	•	1	< Back Next >	Finish Cancel
Пеір			< Dack Next >	Emisit Cancel

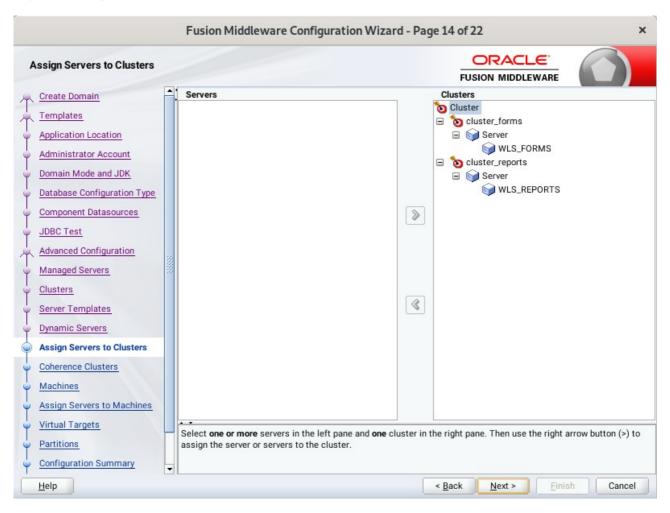
12). Then Server Templates screen appears.

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

	_			-		Page 13 of 2			
Dynamic Servers									
Create Domain Templates								Dis <u>c</u> ar	d Changes
Application Location Administrator Account Domain Mode and JDK		Cluster Name	Server Name Prefix	Server Template	Dynamic Cluster Size	Machine Name Match Expression	Calculated Machine Names	Calculated Listen Ports	Dynamic Server Groups
Database Configuration Type		cluster_forms	Disabled	Unspecifi •	Disabled	Disabled			Unspecifi
Component Datasources		cluster_reports	Disabled	Unspecifi	Disabled	Disabled			Unspecifi•
Clusters Server Templates Dynamic Servers									
Assign Servers to Clusters									
Coherence Clusters									
Machines									
Assign Servers to Machines									
Assign Servers to Machines Virtual Targets									
The second s		- -							
<u>Virtual Targets</u>	-								

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

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



14). The Assign Servers to Clusters screen appears.

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

C.	Fusion Middleware Configuration	n Wizard - Page 15 of 22 ×
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	22	
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> Cancel

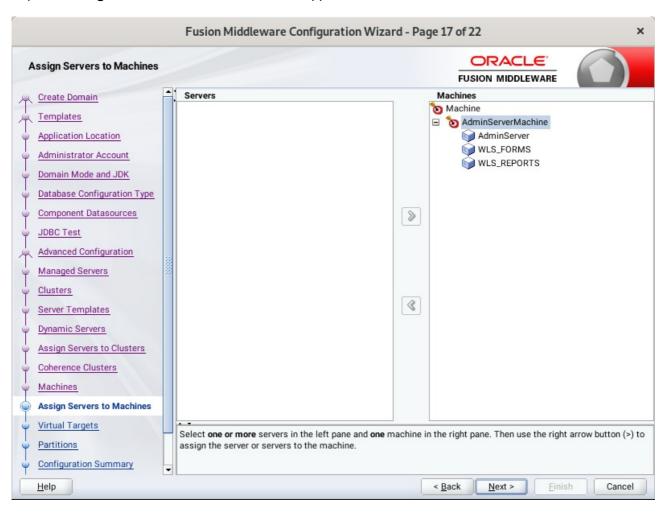
15). The **Coherence Clusters** screen appears.

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

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

		Fusion Middleware Configur	ation 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 Assign Servers to Clusters Coherence Clusters		Machine Unix Machine	Node Manager L localhost		9	Dis <u>c</u> ard Changes ager Listen Port 5556
 Machines Assign Servers to Machines Virtual Targets Partitions Configuration Summary 	-	• •				
Help				< <u>B</u> ack <u>N</u>	ext > Ein	sh Cancel

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.

ē.	Fu	sion Middlewa	are Configuratio	on Wizard - Pa	age 18 of 2	2		×
Virtual Targets								
Create Domain Templates		🕂 Add 🗙	<u>D</u> elete				🔊 Dis <u>c</u> ard	Changes
Application Location Administrator Account		Name	Target	Host Names		JRI Prefix	Explicit Port	Port Offset
<u>Administrator Account</u> <u>Domain Mode and JDK</u>]]			
Database Configuration Type Component Datasources								
JDBC Test								
Advanced Configuration Managed Servers	1000							
y <u>Clusters</u>								
Server Templates Dynamic Servers								
Assign Servers to Clusters Coherence Clusters								
Coherence Clusters Machines								
Assign Servers to Machines Virtual Targets								
Partitions								
Configuration Summary	•				. De els	Next	[Firstel]	Orneral
Help					< <u>B</u> ack	<u>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 Middleware Configuration Wizard - Page 19 of	22	×
Partitions		FL		
← <u>Create Domain</u> ← <u>Templates</u>	•	Add Nelete	5	Dis <u>c</u> ard Changes
Application Location Administrator Account Domain Mode and JDK Database Configuration Type		Name		
<u>Component Datasources</u> <u>JDBC Test</u> <u>Advanced Configuration</u> <u>Managed Servers</u> Clusters	20000			
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> ack	<u>N</u> ext > <u>Fini</u>	sh Cancel

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

System Components				
Create Domain	Add X De	lete		🔊 Dis <u>c</u> ard Changes
Application Location	System Component	Component Type	Restart Interval Seconds	Restart Delay Seconds
Administrator Account	forms1	FORMS	3600	
Domain Mode and JDK	ohs1	OHS	3600	
Advanced Configuration				
Advanced Configuration Managed Servers Clusters Server Templates Dynamic Servers Assign Servers to Clusters Coherence Clusters Machines Assign Servers to Machines Virtual Targets Partitions				

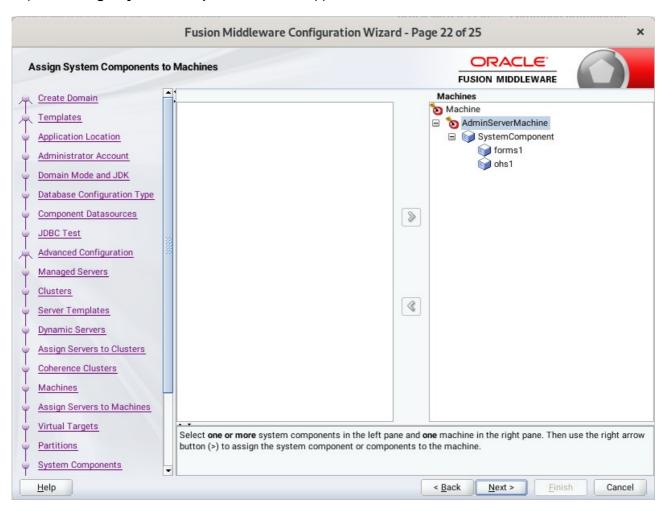
20). The System Components screen appears.

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.
------	-----	-----	--------	--------	----------

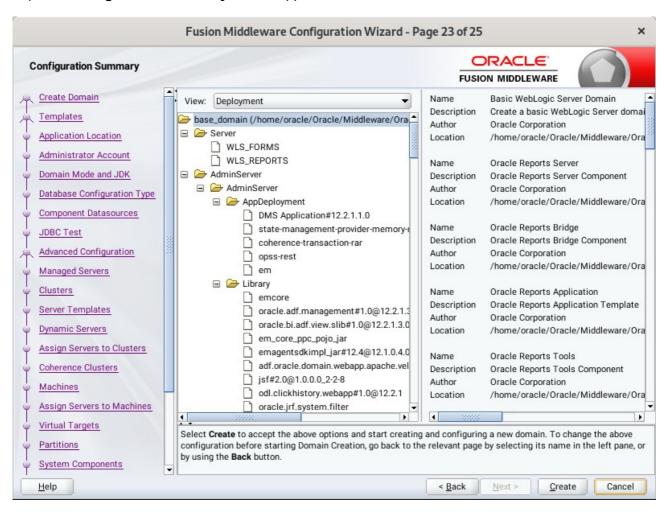
Fusion Middleware Configuration Wizard - Page 21 of 25							×
OHS Server						_	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Managed Servers Clusters Server Templates Dynamic Servers Assign Servers to Clusters Coherence Clusters Machines Assign Servers to Machines Virtual Targets Partitions System Components	•	ohs1 127.0.0.1 77779 77777 4443 http://localhost:77777					
Help				< <u>B</u> ack	<u>N</u> ext >	Finish	Cancel

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



22). The Assign System Components screen appears.

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



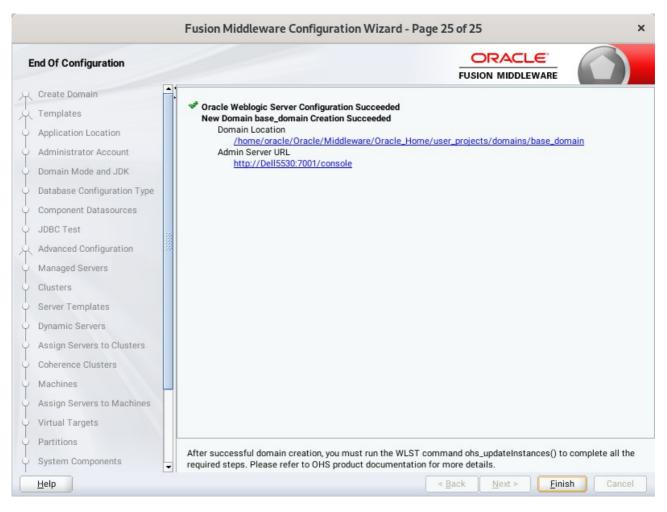
23). The Configuration Summary screen appears.

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

F	usion Middleware Configuration	Wizard - Pag	ge 24 of 25	5		×
Configuration Progress						
A Create Domain						
A Templates		100%				
Application Location	Copy Unprocessed Artifacts					
Administrator Account	OPSS Processing					
Domain Mode and JDK	Security Processing Artifacts Generation					
Database Configuration Type	String Substitution					
Component Datasources	Post Processing					
JDBC Test						
Advanced Configuration						
Ú Managed Servers						
Ú Clusters						
Server Templates						
Opnamic Servers						
Assign Servers to Clusters						
Coherence Clusters						
Q Machines						
Assign Servers to Machines						
Virtual Targets						
Q Partitions						
System Components						
Help		(< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	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&

Œ	oracle@Dell5530:ns/base_domain/bin	٩	=	×
	oracle@Dell5530:214_infrastructure × oracle@Dell5530:leware/Oracle_H × oracle@Dell5530:ns/base_domain	n/b	×	•
tar ora hom -Dc acl ewa Hom mpc nt cle cle rec ass le/ RAC <au 1.4 <au e/c</au </au 	<pre>cle@Dell5530:/home/oracle/Oracle/Middleware/Oracle_Home/user_projects/domains/base_doma thodeManager.sh > nm.out& 1342 cle@Dell5530:/home/oracle/Oracle/Middleware/Oracle_Home/user_projects/domains/base_doma e/ORACLE_SW/Java/jdk1.8.0_221/bin/java -server -Xms32m -Xmx200m -Djdk.tls.ephemeralDHKe coherence.home=/home/oracle/Oracle/Middleware/Oracle_Home/wlserver//coherence -Dbea.ho e/Oracle/Middleware/Oracle_Home/wlserver/Dreports.tools.product.home=/home/oracle/Oracle/Middleware/Oracle_Home/wlserver//coherence -Dbea.ho e/Oracle/Middleware/Oracle_Home/wlserver/Dreports.tools.product.home=/home/oracle/Oracle/Middleware/Oracle_Home/widdleware/Oracle_Home/keportsToolsComponent -Dreports.product.home=/home/oracle/Oracle_Home/ReportsSe -Dforms.product.home=/home/oracle/Oracle/Middleware/Oracle_Home/ReportsSe -Dforms.product.home=/home/oracle/Oracle/Middleware/Oracle_Home/keportsSe -Dforms.product.home=/home/oracle/Oracle/Middleware/Oracle_Home/keportsSe -Dforms.product.home=/home/oracle_Bome/wser_projects/domains/base_domain.co //oracle/Middleware/Oracle_Home/oracle_Home/keportsCe -Dforms.product.home=/home/oracle_Legomon -Dopss.version=12.2.1.3 -Dwebl tory=/home/oracle/Oracle/Middleware/Oracle_Home/wser_projects/domains/base_domain -Djav .loader=com.oracle.classloader.weblogic.LaunchClassLoader -Djava.security.policy=/home/ Middleware/Oracle_Home/wlserver/lib/weblogic.policy -Dweblogic.nodemanager.JavaH tLE_SW/Java/jdk1.8.0_221 weblogic.NodeManager -v tg 25, 2020 1:42:37 AM GMT+08:00> <info> <loading base_domain="" domains="" file:="" home="" middl="" nodemanager="" nodemanager.domains="" oracle="" user_projects=""> tg 25, 2020 1:42:37 AM GMT+08:00> <info> <upgrade> <setting .0="" nodemanager="" properties="" versi=""> tg 25, 2020 1:42:37 AM GMT+08:00> <info> <upgrade> <setting .0="" nodemanager="" properties="" versi=""> </setting></upgrade></info></setting></upgrade></info></loading></info></pre>	in/b ySiz me=/ rtsB re=/h dlew mpon ogic orac ome= lewa on t es t	in> e=2 hom e/M Ora rid Com ome are ent .Roo ster le/(/hor re/(o 1) o '	+ / 048 e/or iddl cle_ geCo pone /ora otDi m.cl Orac me/O Orac 2.2. /hom
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Aug oca INF	<pre>% Type Rbs, Tubbrintubeobled erect % 25, 2020 1:42:38 AM oracle.security.jps.internal.config.xml.XmlConfigurationFactory va ktion % JPS Config: /home/oracle/Oracle/Middleware/Oracle_Home/user_projects/domains/base_do wconfig/jps-config-jse.xml</pre>			

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

	Q = ×
oracle@Dell5530:214_i × oracle@Dell5530:lewar × oracle@Dell5530:ns/ba × oracle@	Dell5530:ns/ba × 🗸
<pre><aug 1:48:33,793="" 2020="" 25,="" am="" gmt+08:00=""> <warning> <server> <bea-002611> <the 0:0:0:0:0:0:0:0:1.="" 127.0.0.1,="" addresses:="" host="" ip="" multiple="" ps="" to=""></the></bea-002611></server></warning></aug></pre>	tname "localhost", ma
<pre><aug 1:48:33,794="" 2020="" 25,="" am="" gmt+08:00=""> <notice> <server> <bea-002613> <channel '="" 2408:8207:c53:a970:4962:610:ab58:4be2%eth0:7001="" for="" iiop,="" istening="" on="" protocols="" t=""></channel></bea-002613></server></notice></aug></pre>	
<pre>- <aug 1:48:33,795="" 2020="" 25,="" am="" gmt+08:00=""> <notice> <server> <bea-002613> <channel '<br="">istening on 127.0.0.1:7001 for protocols iiop, t3, ldap, snmp, http.></channel></bea-002613></server></notice></aug></pre>	"Default[4]" is now l
<pre><aug 1:48:43,805="" 2020="" 25,="" am="" gmt+08:00=""> <notice> <server> <bea-002613> <channel '="" .="" 2408:8207:c53:a970:44d1:2509:edd9:60e8%eth0:7001="" for="" iiop,="" istening="" on="" protocols=""></channel></bea-002613></server></notice></aug></pre>	
<pre></pre> <pre><pre><pre></pre></pre></pre>	Started the WebLogic
<pre>Server Administration Server Administration administratio administration administration adm</pre>	"Default" is now list "Default[2]" is now l
<pre>> <aug 1:48:43,810="" 2020="" 25,="" am="" gmt+08:00=""> <notice> <server> <bea-002613> <channel '="" 127.0.0.1:7001="" for="" http.="" iiop,="" istening="" ldap,="" on="" protocols="" snmp,="" t3,=""> <aug 1:48:43,810="" 2020="" 25,="" am="" gmt+08:00=""> <notice> <server> <bea-002613> <channel '="" <="" pre=""></channel></bea-002613></server></notice></aug></channel></bea-002613></server></notice></aug></pre>	
<pre>istening on 2408:8207:c53:a970:44d1:2509:edd9:60e8%eth0:7001 for protocols iiop, .></pre>	t3, ldap, snmp, http
<pre><aug 1:48:43,811="" 2020="" 25,="" am="" gmt+08:00=""> <notice> <server> <bea-002613> <channel '="" 0:0:0:0:0:0:0:1%lo:7001="" for="" http.="" iiop,="" istening="" ldap,="" on="" protocols="" snmp,="" t3,=""> <aug 1:48:43,811="" 2020="" 25,="" am="" gmt+08:00=""> <notice> <server> <bea-002613> <channel '<="" pre=""></channel></bea-002613></server></notice></aug></channel></bea-002613></server></notice></aug></pre>	
ening on 192.168.1.7:7001 for protocols iiop, t3, ldap, snmp, http.> <aug 1:48:43,815="" 2020="" 25,="" am="" gmt+08:00=""> <notice> <weblogicserver> <bea-000360> <1</bea-000360></weblogicserver></notice></aug>	
RUNNING mode.> <aug 1:48:44,445="" 2020="" 25,="" am="" gmt+08:00=""> <notice> <weblogicserver> <bea-000365> <s to RUNNING.></s </bea-000365></weblogicserver></notice></aug>	Server state changed

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	×
EM Express - Database ⊢ × Sign in - Oracle Enterprise ℕ × +	
$(\leftarrow) \rightarrow \texttt{C} \textcircled{a} \qquad \qquad \textcircled{b} \qquad $	II\ ⊡ 📽 =
SIGN IN TO ORACLE ENTERPRISE MANAGER FUSION MIDDLEWARE CONTROL 12c	
Domain Domain_base_domain * User Name weblogic * Password •••••••• Login to Partition Sign in	
	ORACLE

Oracle Fusion Middleware 12c on SLES 15 SP2

me Page:							
	base_domain (Oracle WebLogic	Domain)	- Oracle Enter	prise Manager - M	ozilla Firefox		
EM Express - Database 🗄 🗙	base_domain (Oracle WebLax	+					
)→ ℃ @) http://dell5530:7001/em/faces/a	as-weblo	gic-webLogicl	Domain 90%	··· 🖂 🕁	III\ 🗉) 🔮
	Anager Fusion Middleware Control 12c				🔚 WebLogi	ic Domain 🔻 🛛 weblog	jic 💌
base_domain ()					<u>~</u> *	🖂 👻 Auto Refres	h Off
WebLogic Domain v					Au	ug 25, 2020 1:53:52 AM GN	1T+08:00
Information							
	is available only when you own the edit s	ession loci	k. To obtain the lo	ck, click "Lock and Edit'	' in the Change Cente	er menu.	
	Listen Port 7001						
Clusters	Servers						
Clusters		Contro	v Ey				
2 Down	Servers	Contro	ol v Ey Cluster	Machine	State	Health	
	Servers View • Create X Delete			Machine AdminServerMachine	State Running	Неаlth ОК	
2 Down	Servers View Create Delete	Status					
2 Down	Servers View Create Delete Name AdminServer(admin)	Status	Cluster	AdminServerMachine	Running Shutdown	ок	
Clusters 2 Down Deployments 2 Down 1 Up	Servers View Create Delete Name AdminServer(admin) WLS_FORMS	Status	Cluster cluster_forms	AdminServerMachine AdminServerMachine	Running Shutdown	OK Unknown	

Starting WLS_FORMS

	WLS_FORMS (Oracle WebLog	jic Server) - Oracle Enter	prise Manager - Mozilla Firefox
EM Express - Database $dash$ X	WLS_FORMS (Oracle WebL >	× +	
) → C' 🏠 🚺	http://dell5530:7001/em/faces	/as-weblogic-webLogic	Server H 90% 🖸 🖬 🗉 📽
	anager Fusion Middleware Control 12c		🕌 WebLogic Domain 💌 🛛 weblogic 🔻
WLS_FORMS			🗎 🔻 🖂 👻 Auto Refresh Off
WebLogic Server	Start Up Shut Down		Aug 25, 2020 1:58:16 AM GMT+08:00
Information			
Certain functionality on this page	is available only when you own the edit	session lock. To obtain the lo	ck, click "Lock and Edit" in the Change Center menu.
Monitoring	General		Response and Load
Request Processing Time (ms)	Up Since	Aug 25, 2020 1:57:30 AM	1.0
0.00	Version	12.2.1.4.0	0.8
Requests (per minute)	State	Running	0.6
	Health	ок 🛩	0.2
eployments	Server Type	Configured	0.01.0
	Cluster	cluster_forms	0.8
1 Up	CPU Usage (%)	0.32	0.4
	Ci O Usage (70)	0.52	0.2
	Heap Usage (MB)	548.82	0.0 01:44 AM 01:47 01:50 01:53 01:56 August 25 2020
lost Requested	Java Vendor	Oracle Corporation	August 23 2020
	Java Version	1.8.0_221	Request Processing Time (ms) Requests (per minute)
			Table View
Dermests Processed	a		
Requests Processed	Servlets and JSPs		EJBs
0 ► Requests Processed	Servlets and JSPs Active Sessions	0	EJBs Beans in Use 0

Oracle Fusion Middleware 12c on SLES 15 SP2

	WLS_REPORTS (Oracle WebLo	gic Server) - Oracle Ente	erprise Man	ager - Mozilla	Firefox			
EM Express - Database 🗄 🗙	WLS_REPORTS (Oracle Weil 2	× +						
$) \rightarrow$ C $rac{1}{2}$	http://dell5530:7001/em/faces	/as-weblogic-webLogic	Server	90%	· 🖂 🕁		III\ 🗊	٢
	anager Fusion Middleware Control 12c				KebLogi	c Domain 💌	weblogi	c 🔻
					• ∎	🖂 👻 🛛 Aut	to Refresh	Off
	Start Up Shut Down				Auç	g 25, 2020 2:08:	:15 AM GM	T+08:00
Information								
Certain functionality on this page	is available only when you own the edit	session lock. To obtain the lo	ck, click "Lock	and Edit" in the C	Change Cente	er menu.		
Monitoring	General		Respon	se and Load				
Request Processing Time (ms)	Up Since	Aug 25, 2020 2:06:54 AM	1.0					-
0.00	Version	12.2.1.4.0	0.8					
Requests (per minute)	State	Running	0.6					
	Health	ок 🛩	0.4					
Deployments	Server Turne	Configured	0.0					1.0
o opro j monto	Server Type							0.8
		cluster_reports						
1 up		cluster_reports						0.6 0.4
	Cluster CPU Usage (%)	cluster_reports						0.6
1 υ _P	Cluster CPU Usage (%) Heap Usage (MB)	cluster_reports 0.27 437.49		54 AM 01:57 August 25 2020	02:00	02:03	02:06	0.6 0.4 0.2
	Cluster CPU Usage (%) Heap Usage (MB) Java Vendor	cluster_reports 0.27 437.49 Oracle Corporation			02:00	02:03		0.6 0.4 0.2
1 Up	Cluster CPU Usage (%) Heap Usage (MB)	cluster_reports 0.27 437.49 Oracle Corporation	01:					0.6 0.4 0.2 0.0
1 υ _P	Cluster CPU Usage (%) Heap Usage (MB) Java Vendor Java Version	cluster_reports 0.27 437.49 Oracle Corporation	01:	August 25 2020			te)	0.6 0.4 0.2 0.0
1 Up	Cluster CPU Usage (%) Heap Usage (MB) Java Vendor	cluster_reports 0.27 437.49 Oracle Corporation	01:	August 25 2020			te)	0.6 0.4 0.2 0.0
1 Up	Cluster CPU Usage (%) Heap Usage (MB) Java Vendor Java Version	cluster_reports 0.27 437.49 Oracle Corporation 1.8.0_221	01: •	August 25 2020	ne (ms) 🔳 Rec		te)	0.6 0.4 0.2 0.0

Starting WLS REPORTS

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

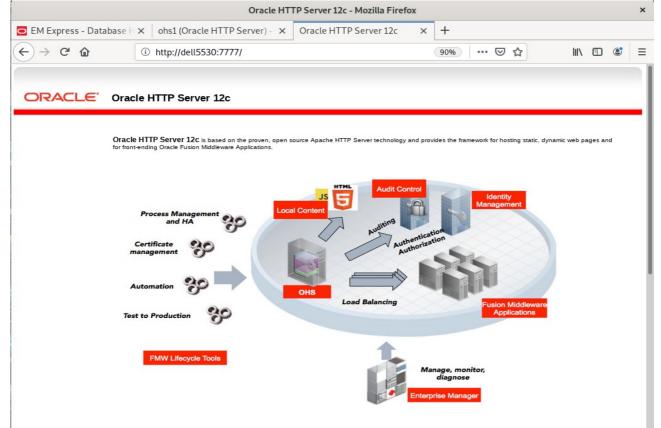
1	base_domain (Oracle WebLogic I) Oomain)	- Oracle Enter	prise Manager - M	ozilla Firefox		×
🖸 EM Express - Database 🗄 🗙 🗍	base_domain (Oracle WebL \propto	+					
← → ♂ ŵ ①	http://dell5530:7001/em/faces/a	s-weblo	gic-webLogicl	Domain 90%	··· ⊠ ☆	III\ 🗊 📽	Ξ
	nager Fusion Middleware Control 12c				KebLogic	: Domain 🔻 weblogic 💌	
base_domain ()					°	🖂 👻 Auto Refresh Off	-
WebLogic Domain 👻					Aug	25, 2020 2:08:33 AM GMT+08:00	U
(1) Information							×
3 up	Administration Server Name AdminSe Host Dell5530 Listen Port 7001 Servers View Create Delete		N V BY				
2 υp	Name	Status	Cluster	Machine	State	Health	
	AdminServer(admin)	+		AdminServerMachine	Running	ок	
Deployments	WLS_FORMS	1	cluster_forms	AdminServerMachine	Running	ок	
	WLS_REPORTS	1	cluster_reports	AdminServerMachine	Running	ок	
3 Up Domain Partitions	Columns Hidden 34					Servers 3 of	3

Starting ohs1 ohs1 (Oracle HTTP Server) - Oracle Enterprise Manager - Mozilla Firefox × EM Express - Database H × ohs1 (Oracle HTTP Server) - × + $\leftarrow \rightarrow \mathbb{C}$ 1 http://dell5530:7001/em/faces/as_ohs_ohsHome?type=oracle 90% ... \heartsuit 1 III\ 🗊 🔹 🖃 ORACLE Enterprise Manager Fusion Middleware Control 12c 🖶 WebLogic Domain 💌 🛛 weblogic 💌 ---💼 🕇 ohs1 👩 `∎ • 🖂 • oracle HTTP Server ▼ D Start Up Shut Down C Restart... Aug 25, 2020 2:09:58 AM GMT+08:00 👈 Monitoring General Response and Load 0.00 Component Name ohs1 CPU Usage (%) Þ Version 12.2.1.4.0 0.00 Memory Usage (%) State Running Host Dell5530 Virtual Hosts Ports 7777 4443 127.0.0.1:7779 01:55 AM 01:58 August 25 2020 02:01 02:04 02:07 Machine Name AdminServerMachine 0 🕨 4 . Virtual Hosts Auto Restart 🗸 Request Processing Time (milli seconds) /Domain_base_domain/base_domain/ohs1: Request Throug... Oracle Home //oracle/Oracle/Middleware /Oracle_Home Table View Modules **Key Statistics** CPU and Memory Usage Idle Processes Unavailable 0 • Busy Processes Unavailable Modules Error Rate (%) -1.00 Connection Duration (seconds) Unavailable Request Processing Time (seconds) Unavailable Request Throughput (per second) -1.00 02:01 02:04 01:55 AM 01:58 August 25 2020 02:07 Response Data Throughput (KB/second) -1.00 4 mory Usage (MB)

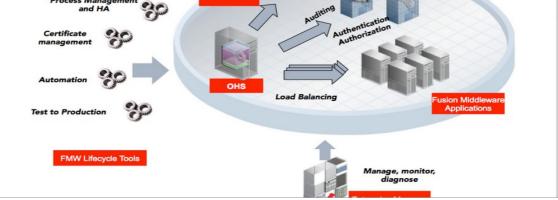
Oracle Fusion Middleware 12c on SLES 15 SP2

http://dell5530:7001/em/faces/as_ohs_ohsHome?type=oracle_apache&target=/Domain_base_domain/base_domain/ohs1#

Verified ohs1 URLs can be accessed.



	Oracle HT	TP Server 12c - Mozilla Firefox					×
Oracle HTTP Server 12	x +						
← → ℃ ŵ	③ ▲ https://dell5530:4443/	90% ···	·· 🛛 🕁	1111		٢	Ξ
ORACLE	Oracle HTTP Server 12c						
	Oracle HTTP Server 12c is based on the proven, open for front-ending Oracle Fusion Middleware Applications.	source Apache HTTP Server technology and provides the framewor	rk for hosting static, dynam	ic web pa	iges and	d	
	Process Management and HA Process Management Certificate management Pro- Automation Pro- Test to Production Pro-	Authorization Authorization	Identity anagement				
	FMW Lifecycle Tools	Manage, monitor, diagnose Enterprise Manager					
	Oracle HT	TP Server 12c - Mozilla Firefox					×
Oracle HTTP Server 120	X Oracle HTTP Server 12c X	+					
← → C' ŵ	Image: Market		• 🖂 🕁	1111		٢	=
ORACLE	Oracle HTTP Server 12c						
C	Dracle HTTP Server 12c is based on the proven, ope ages and for front-ending Oracle Fusion Middleware Appli	n source Apache HTTP Server technology and provides the fram ations.	nework for hosting static,	dynamic	web		
	Process Management and HA	Local Content	Identity Managemer	nt			



2). Access to Administration Server Console

	acle HTTP Server 12c	× 0 onsole/logi		× +	S 2	III\ 🗉	٢	×
← → Ĉ ŵ ⁰ % h	nttp://dell5530:7001/co	onsole/logi	n/LoginForm.jsp		♥ ☆	III\ 🗉	٢	Ξ
				90% ***			٢	Ξ
ORACLE WebLogic	Server Administ	ration Cor	nsole 12 <i>c</i>					
12) <i>C</i>							
12								
12								
12								
12								
12				-				
12								
					Welcome			
				Log in to work with th	e WebLogic Server domain			
				Username:	weblogic			
				Password:	••••••		=	
						Logi	1	
WebLogic Server Version: 12.2.1.4.0								
Copyright (c) 1996,2019, Oracle and/or its affiliates. All rights Oracle is a registered trademark of Oracle Corporation and/or								
		ademarks o <u>f the</u> i	r respective owners.					

Home Page:

	Home Page - base_dom	ain - WLS Console - Mozilla Firefox	×
Oracle HTTP Server 12c 🛛 🗙	Oracle HTTP Server 12c × Ho	me Page - base_domain - $ imes$ +	
$\leftarrow \rightarrow$ C $\textcircled{0}$	http://dell5530:7001/console/console.	portal?_nfpb=true& 🗐 90%	···· 🖂 🏠 💷 🖾 🗉
	ministration Console 12c		Q
Change Center	🚹 Home Log Out Preferences 📐 Record Help	Q	Welcome, weblogic Connected to: base_domain
View changes and restarts	Home		
Click the Lock & Edit button to modify, add or	Home Page		
delete items in this domain.	Information and Resources		
Lock & Edit	Helpful Tools	General Information	
Release Configuration	Configure applications	Common Administration Task Descriptions	
Domain Structure	 Configure GridLink for RAC Data Source 	 Read the documentation 	
base_domain	Configure a Dynamic Cluster	 Ask a question on My Oracle Support 	
Domain Partitions Environment	Recent Task Status Set your console preferences		
Deployments	Oracle Enterprise Manager		
Services Security Realms	-		
Interoperability	 Domain Configurations 		
Diagnostics	Domain	Resource Group Templates	Interoperability
	• Domain	Resource Group Templates	WTC Servers
	Descrip Destilations		Jolt Connection Pools
	Domain Partitions Domain Partitions	Resource Groups Resource Groups	Diagnostics
	Partition Work Managers	• Resouce croups	Log Files
How do I 🖃		Deployed Resources	Diagnostic Modules
Search the configuration	Environment	Deployments	Built-in Diagnostic Modules
Use the Change Center	Servers		Diagnostic Images
Record WLST scripts	Clusters	Services	Request Performance
Change Console preferences Manage Console extensions	 Server Templates Migratable Targets 	Messaging	Archives Context
Monitor servers	Coherence Clusters	 JMS Servers Store-and-Forward Agents 	• SNMP
	Machines	JMS Modules	Interceptors
System Status	Virtual Hosts	Path Services	
Retrieving Health Data	Virtual Targets	 Bridges 	Charts and Graphs
Failed (0)	Work Managers	Data Sources	・ Monitoring Dashboard 🙆
Critical (0)	Concurrent Templates	Persistent Stores	

Viewing the summary of servers:

	Summary of Server	s - base_dom	ain - WLS Conso	le - Mozilla Firefox				×
Oracle HTTP Server 12c ×	Oracle HTTP Server 12c	× Summ	ary of Servers - b	ase_ × +				
← → ♂ @ ③	http://dell5530:7001/console	/console.port	tal?_nfpb=true&	E 90% ···	• ⊠ ☆		III\ 🗉 🤅	: ≡
	Administration Console 12c							Q
Change Center	🔒 Home Log Out Preferences 🔤 Re	cord Help	٩		Welcom	e, weblogic	Connected to: base	_domain
View changes and restarts	Home >Summary of Servers							
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Servers Configuration Control							-11
Lock & Edit Release Configuration	A server is an instance of WebLogic Se	rver that runs in its o	wn Java Virtual Machine (J	VM) and has its own configuration	L.			
Domain Structure	This page summarizes each server tha	t has been configure	d in the current WebLogic	Server domain.				- 18
base_domain	2۵							
Deployments	Customize this table							
Security Realms Interoperability	Servers (Filtered - More Columns Ex	ist)						_ 18
-Diagnostics	Click the Lock & Edit button in the Chan	ge Center to activate	e all the buttons on this pag	je.				
	New Clone Delete				5	Showing 1 to 3	of3 Previous N	ext
	Name 🏟	Туре	Cluster	Machine	State	Health	Listen Port	
	AdminServer(admin)	Configured		AdminServerMachine	RUNNING	🖋 ок	7001	
How do I 🖻	WLS_FORMS	Configured	cluster_forms	AdminServerMachine	RUNNING	🛩 ок	9001	
Create Managed Servers	WLS_REPORTS	Configured	cluster_reports	AdminServerMachine	RUNNING	🛩 ок	9002	
Clone servers Delete Managed Servers	New Clone Delete				5	Showing 1 to 3	of 3 Previous N	ext
Delete Managed Servers Delete the Administration Server								- 11
Start and stop servers								
View objects in the JNDI tree								-
System Status	i							
Health of Running Servers as of 2:29 AM								
Failed (0)								

3). Access to Oracle Forms Services.

		Oracle Fusion	Middl	leware Forms Services - Mozilla Fi	refox						×
Oracle HTTP Server 12c	×	Oracle HTTP Server 12c	×	Summary of Servers - base_ $ imes$	Oracle	Fusion M	liddleware Fox	-	F		
$\overleftarrow{\leftarrow}$ \rightarrow C' $\overleftarrow{0}$	i	http://dell5530:9001/forms	/		90%	⊌	☆	111	•	٢	≡
Oracle Fusion	Mi	iddleware Form	is S	Services							
The Forms Listener Servle	t is u	up and running.									

4). Access to Oracle Reports Services.

$ \begin{array}{c} \leftarrow \rightarrow \ \ \ \bigcirc \ \ http://dell5530:9002/reports/ \\ \hline \ \bigcirc \ \ \bigcirc \\ \hline \ \ \bigcirc \\ \hline \ \ \hline \\ \hline \ \ \cr \\ \hline \ \ \ \cr \\ \hline \ \ \ \cr \\ \hline \ \ \ \ \cr \\ \hline \ \ \ \ \ \ \ \ \ \ \ \ \$		Oracle Reports Services - Servlet - N			,
CRECIE Reports Concerned to the Reports Server (server=name) can be omitted rwservlet will try to use the default Reports Server specified in the servlet configuration tabiout how to setup and use Reports Server (server=name) can be omitted rwservlet will try to use the default Reports Server specified in the servlet configuration tabiout how to setup and use Reports Server (server=name) can be omitted rwservlet will try to use the default Reports Server specified in the servlet configuration tabiout how to setup and use Reports Server (server=name) can be omitted rwservlet will try to use the default Reports Server specified in the servlet configuration tabiout how to setup and use Reports Server (server=name) can be omitted rwservlet will try to use the default Reports Server specified in the servlet configuration tabiout how to setup and use Reports Server (server=name) can be omitted rwservlet will try to use the default Reports Server specified in the servlet configuration tabiout how to setup and use Reports Server (server=name) can be omitted rwservlet will try to use the default Reports Server specified in the servlet showen the	Oracle HTTP Server 12c 🗙	Oracle HTTP Server 12c \times Summary of Servers - be \times	Oracle Fusion Middlewal $ imes$	Oracle Reports Services ×	-
Reports Description	← → ♂ ଢ	 http://dell5530:9002/reports/ 	90% … 🛛	☆ Ⅲ\ 🗉 💲	=
IRL for invoking rwservlet command request : http://yourwebserver/yourservletpath/hwservlet/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) or 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 (<i>server=name</i>) can be omitted rwservlet will try to use the default Reports Server specified in the servlet configuration file. • help • showeny • showiobs • showinobid • killiobid • killiobid • parsequery • showauth • delauth • delauth • delauth • delauth	ORACLE Reports				? He
<pre>//ree args are arguments for constructing a Reports Server run request, and optional command is a keyword, modifying request in some way (see list below) or 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.</pre>)racle Reports Servic	es - Servlet Command Help			
or 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. • heip • showenv • showindbs • showindbs • showindbi • getiobid • getiobid • getiobid • getiserverinflo				an list holow)	
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. • help • shownots • showindbs • shownap • shownots • shownots • shownap • shownots	mere arys are arguments for cons				
	or more information about how t				

End of Oracle Forms and Reports.

oracle WebTier

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_221 and later installed.
- 3). Oracle WebLogic Server 12cR2 (12.2.1.4.0) (Fusion Middleware Infrastructure Installer)

1-2. Login to the target system (SLES 15 SP2 64-bit OS) as a non-admin user. Download the Oracle WebTier 12cR2 OHS (12.2.1.4.0) from <u>https://www.oracle.com/downloads/#category-middleware</u>.

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

1-3. Go to the directory where you downloaded the installation program. Extract the contents of this .zip (fmw_12.2.1.4.0_ohs_linux64_Disk1_1of1.zip) file and launch the installation program by running 'fmw_12.2.1.4.0_ohs_linux64.bin'

For the actual installation, follow the steps below:

1). Installation Inventory Setup.

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

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

2). Welcome page.

		Oracle HTTP Server Installation - Step 1 of 9
w	elcome	
0	Welcome Auto Updates Installation Location Installation Type JDK Selection Prerequisite Checks Installation Summary Installation Complete	Velcom Indecente Welcome to Oracle Fusion Middleware 12c (12.2.1.4.0) Oracle HTTP Server Installer. Use this installer to create a new Oracle Home or extend an existing Oracle home with the Oracle Fusion Middleware Web Tier software, including Oracle HTTP Server. For more information, see <u>Install, Patch, and Upgrade</u> in the Oracle Fusion Middleware documentation library. Context-sensitive online help is available from the <u>H</u> elp button.
1	Help	<u>Rext > Einish</u> Cance

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

2). The Auto Updates page appears.

	Oracle	HTTP Server Install	ation - Step 2 of 9				×
Auto Updates						Ē	
Welcome Auto Updates Installation Location Installation Type JDK Selection Prerequisite Checks Installation Summary Installation Progress Installation Complete	Skip <u>A</u> uto Upda Select patches Location: Search <u>My</u> Ora Username: Password: Search						Browse
Help				< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

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

3). The Installation Location page appears.

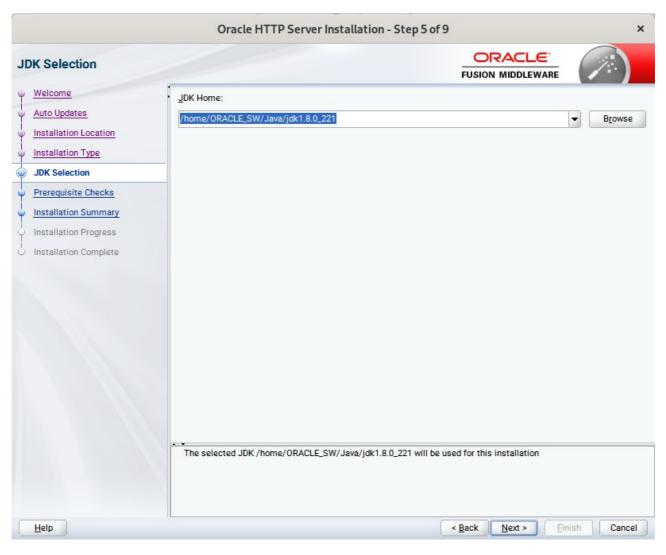
stallation Location		/)
Welcome	Oracle Home:	
Auto Updates	/home/oracle/Oracle/Middleware/Oracle_Home	Browse
Installation Location	Feature Sets Installed At Selected Oracle Home: View	
Installation Type	Oracle Fusion Middleware 12c Infrastructure 12.2.1.4.0	Γ
JDK Selection	Core Server	I
JUK SELECTION	Core Application Server 12.2.1.4.0	
Prerequisite Checks	Coherence Product Files 12.2.1.4.0	
Installation Summary	Web 2.0 HTTP Pub-Sub Server 12.2.1.4.0	
Installation Deserves	WebLogic SCA 12.2.1.4.0	
Installation Progress	WebLogic Client Jars 12.2.1.4.0	
Installation Complete		
	Administration Console Additional Language Help Files 12.2.1.4.0	
	CIE WLS Config 12.2.1.4.0	
	Enterprise manager 12.2.1.4.0	
	Database Support	
	Third party JDBC Drivers 12.2.1.4.0	
	WebLogic Evaluation Database 12.2.1.4.0	
	Open Source Components	
	Fusion Middleware Maven Support 12.2.1.4.0	
	JRF and Enterprise Manager	
	WLS for FMW 12.2.1.4.0	
	Oracle Automatic Diagnostic Repository Feature Set Group	
	FMW Platform Generic 12.2.1.4.0	-
	The Oracle Home /home/oracle/Oracle/Middleware/Oracle_Home will be used for all Oracle Feature S installation.	ets in this
	This page only shows Feature Sets installed at the selected Oracle Home. It does not show Feature Sets installed anywhere else.	

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

4). The Installation Type page appears.

	Oracle HTTP Server Installation - Step 4 of 9		×
Installation Type			
 Welcome Auto Updates Installation Location Installation Type JDK Selection Prerequisite Checks Installation Summary Installation Progress Installation Complete 	 Standalone HTTP Server (Managed independently of WebLogic server) Collocated HTTP Server (Managed through WebLogic server) Oracle HTTP Server 12.2.1.4.0 Java Runtime Environment Oracle JRE 12.2.1.4.0 Oracle Common Configuration Infrastructure CIE CAM Shared Config 12.2.1.4.0 Enterprise manager Plugin for OHS 12.2.1.4.0 Infrastructure Database Client 12.2.1.4.0 OAM WebGate For Oracle HTTP Server 12.2.1.4.0 OPatch 13.9.4.2.1 LDAP 12.2.1.4.0 		
Help	< <u>B</u> ack <u>N</u> ext >	> <u>F</u> inish C	Cancel

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



5). The JDK Selection page appears.

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

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

C.		Oracle HTTP Server Installation - Step 6 of 9	×
Prerequisite Checks			
Q Welcome			
Auto Updates		100%	
Installation Location	~	Checking operating system certification	
Installation Type	8	Checking recommended operating system packages	
JDK Selection	~	Checking kernel parameters	
Prerequisite Checks	1	Checking physical memory	
Installation Summary	1	Checking Java version used to launch the installer	
Installation Progress			
Unstallation Complete			
÷	Che	Rerun Skip View Successful Tasks toking operating system certification toking recommended operating system packages toking kernel parameters	View Log
÷	- Che	cking physical memory	
	VChe	ecking Java version used to launch the installer	
Help		< <u>Back</u> <u>N</u> ext > <u>F</u> ini	sh Cancel

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

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

erequisite Checks		
Welcome Auto Updates	100%	
Installation Location	Checking operating system certification	
Installation Type	Checking recommended operating system packages	
JDK Selection	Checking kernel parameters	
Prerequisite Checks	Checking physical memory	
Installation Summary	Checking Java version used to launch the installer	
	Checking for gcc-4.3-62.198; found gcc-7-3.3.22-x86_64. Passed Checking for gcc-c++.4.3-62.198; found gcc-c++7-3.3.22-x86_64. Passed Checking for glibc-2.9-13.2; found glibc-32bit-2.26-13.48.1-x86_64. Passed Checking for glibc-devel-2.9; found glibc-32bit-2.26-13.48.1-x86_64. Passed Checking for glibc-devel-2.9; found glibc-32bit-2.26-13.48.1-x86_64. Passed Checking for glibc-devel-2.9: found glibc-devel-2.26-13.48.1-x86_64. Passed Checking for glibc-devel-32bit-2.9-13.2; Not found. Failed Checking for libaio-0.3.104-140.22; Not found. Failed Checking for libaio-devel-0.3.104-140.22; Not found. Failed Checking for libaio-devel-0.3.104-140.22; Not found. Failed Checking for libst-devel-0.3.20081022; Not found. Failed Checking for libst-devel-4.3.3_20081022; Not found. Failed Checking for libst-devel-4.3.3_20081022-11.18; Not found. Failed Checking for systat-8.1.5-7.8; found systat-12.0.2-3.21.18-x86_64. Passed Checking for systat-8.1.5-7.8; found systat-12.0.2-3.21.18-x86_64. Passed Checking for systat-8.1.5-7.8; found systat-12.0.2-3.21.18-x86_64. Passed Checking for libaio-32bit-0.3.104; Not found. Failed Checking for libaio-42bit-0.3.104; Not found. Failed Checking for libaio-42bit-0.3.3; Not found. Failed Checking for libaio-42bit-0.3.3; Not found. Failed Checking for libaio-42bit-0.3.3, 20081022; Not found. Failed Checking for libst-4+43-32bit-4.3.3_20081022; Not found. Failed Checking for libst-4+43-32bit-4.3.3, 20081022; Not found. Failed Checking for libst-4+43-3evel-4.3.3, 20081022; Not found. Failed Checking for libst-4+43-3evel-4.3.3, 20081022; Not found. Fai	

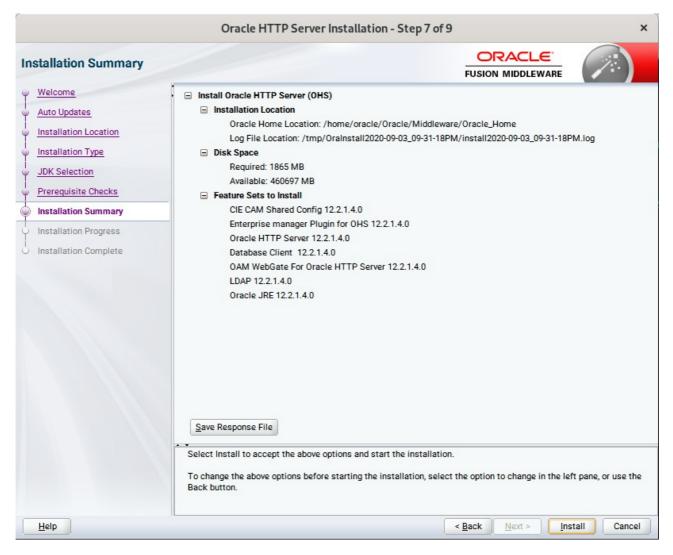
This is due to rpm name change in SLES15 (SP2). Oracle FUSION Middleware 12c (12.2.1.4) is certified on SLES15 (SP1). Manually ensure the following updated packages are installed.

binutils-2.29.1-4.46.x86 64 gcc7-ada-7.3.1+r258812-2.15.x86_64 gcc-c++-7-1.563.x86_64 gcc-c++-32bit-7-1.563.x86 64 gcc-ada-7-1.563.x86_64 gcc-locale-7-1.563.x86_64 gcc-info-7-1.563.x86 64 gcc-7-1.563.x86 64 gcc7-c++-7.3.1+r258812-2.15.x86 64 gcc7-info-7.3.1+r258812-2.15.noarch gcc7-7.3.1+r258812-2.15.x86 64 gcc7-locale-7.3.1+r258812-2.15.x86_64 gcc7-c++-32bit-7.3.1+r258812-2.15.x86_64 gcc7-32bit-7.3.1+r258812-2.15.x86_64 gcc-32bit-7-1.563.x86_64 glibc-2.26-11.8.x86_64 linux-glibc-devel-4.15-1.47.noarch glibc-devel-2.26-11.8.x86_64

glibc-locale-2.26-11.8.x86 64 glibc-extra-2.26-11.8.x86 64 glibc-32bit-2.26-11.8.x86 64 glibc-devel-32bit-2.26-11.8.x86_64 mksh-56c-1.10.x86 64 libaio1-0.3.109-1.25.x86_64 libaio1-32bit-0.3.109-1.25.x86 64 libaio-devel-32bit-0.3.109-1.25.x86 64 libaio-devel-0.3.109-1.25.x86_64 libcap2-2.25-2.41.x86_64 libcap-ng0-0.7.9-1.42.x86_64 libcap2-32bit-2.25-2.41.x86_64 libstdc++6-7.3.1+r258812-2.15.x86_64 libstdc++6-devel-gcc7-7.3.1+r258812-2.15.x86 64 libstdc++6-32bit-7.3.1+r258812-2.15.x86_64 libstdc++6-devel-gcc7-32bit-7.3.1+r258812-2.15.x86_64 libstdc++6-locale-7.3.1+r258812-2.15.x86_64 libstdc++-devel-7-1.563.x86_64 libgcc_s1-7.3.1+r258812-2.15.x86_64 libgcc s1-32bit-7.3.1+r258812-2.15.x86 64 make-4.2.1-5.48.x86_64 make-lang-4.2.1-5.48.noarch makedumpfile-1.6.3-5.6.x86_64 xorg-x11-7.6 1-1.22.noarch xorg-x11-server-1.19.6-6.19.x86_64 xorg-x11-fonts-7.6-3.9.noarch xorg-x11-driver-video-7.6_1-2.30.x86_64 xorg-x11-Xvnc-1.8.0-11.23.x86_64 xorg-x11-fonts-core-7.6-3.9.noarch xorg-x11-server-extra-1.19.6-6.19.x86 64 xorg-x11-essentials-7.6_1-1.22.noarch

)

7). The Installation Summary page appears.



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

	C	Dracle HTTP Server Installation - Step 8 of 9 ×
Installation Progress		
Y Welcome	_	100%
Auto Updates Installation Location	v	Prepare
Unstallation Type	~	Copy Generating Libraries
Prerequisite Checks	1	Performing String Substitutions
Installation Progress Installation Complete	1	Setup Saving the inventory
		Post install scripts
	View <u>M</u>	lessages ✓ View Successful Tasks View Log
	-	Hardware and Software Engineered to Work Together
Help		< Back Next > Finish Cancel

8). The Installation Progress page appears.

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

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

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: /tmp/Oralnstall2020-09-03_0 Feature sets Installed Successfully CIE CAM Shared Config 12.2.1.4.0 Enterprise manager Plugin for OHS 12.2.1.4.0 Oracle HTTP Server 12.2.1.4.0 Database Client 12.2.1.4.0 OAM WebGate For Oracle HTTP Server 12.2.1.4 LDAP 12.2.1.4.0 Oracle JRE 12.2.1.4.0 Pre-Existing Feature Sets OPatch 13.9.4.2.1 	9-31-18PM/install2020-09-03_09-31-18	PM.log
	Next Steps: 1. Create a domain using the Configuration Wizard. 2. Start Node Manager and Domain Servers. See the <u>product installation quide</u> for detailed instruction	15.	
	Oracle HTTP Server (OHS) installation completed success	sfully.	

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.

	Repository Cre	ation Utility - Step 4 of	8			
ository Creation Utility				5		
Velcome create Repository	 Specify a unique prefix for all sch schemas later. 	emas created in this session	so you can easily locate, reference, and n	nanage t		
atabase Connection Details	Select existing prefix:	[
elect Components	1					
chema Passwords	Oreate new prefix:	DEV				
Line and the second		Alpha numeric only. Can	not start with a number. No special charac	ters.		
lap Tablespaces	Component		Schema Owner			
ummary	Oracle AS Repository	Components				
completion Summary	AS Common Sche					
	Common Infra	structure Services *	DEV_STB			
	✓ Oracle Platform	n Security Services	DEV_OPSS			
	User Messagin	g Service	UMS			
	Audit Services		DEV_IAU			
	Audit Services	Append	DEV_IAU_APPEND			
	Audit Services		DEV_IAU_VIEWER			
	Metadata Serv		MDS			
	Weblogic Serv	ices *	DEV_WLS			
	* Mandatory component. Ma	ndatory components cannot b	e 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.

	nfiguration	Wizard - I	Page 1 of 8				×		
Configuration Type								6	
🔍 Create Domain	1								
Templates									
Administrator Account									
Domain Mode and JDK									
Advanced Configuration									
Configuration Summary									
Configuration Progress	What do you want	to do?							
End Of Configuration	Create a new d	lomain							
	O Update an exis	ting domain							
	Domain Location:	racle/Orac	ile/Middleware	/Oracle_Hom	ie/user_proje	cts/domains/b	ase_doma	ain B <u>r</u>	owse
	Create a new doma	in.							
Help					< <u>B</u> ack	<u>N</u> ext >	<u> </u>		ancel

Click Next to continue.

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

	Fusion Middleware Configuration Wizard -	Page 2 of 12	×
Templates)
Create Domain Create Domain Create Domain Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Create Domain Using Product Templates: Filter Templates: Type here Include all selected templates Available Templates Basic WebLogic Server Domain [wlserver] * Oracle Enterprise Manager [em] Oracle Enterprise Manager.Restricted JRF [em] Oracle HTTP Server (Collocated) [ohs] Oracle HTTP Server (Restricted JRF) [ohs] Oracle User Messaging Service Basic [oracle_com Oracle JRF SOAP/JMS Web Services [oracle_common] Oracle WSM Policy Manager [oracle_common] Oracle JRF [oracle_common] Oracle JRF [oracle_common] Create Domain Using Custom Template: Template location:	mon] ommon] e/Oracle_Home	
Help		< <u>Back Next > Finish</u> Car	cel

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

r.	Fusion Middlew	vare Configuration	Wizard - Page	3 of 12	!			×
Application Location				-			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	Domain name: Domain location: Application location:	base_domain /home/oracle/Oracle/N Oracle/Middleware/Or					in B	<u>r</u> owse
Help	L		<	<u>B</u> ack	<u>N</u> ext >	<u> </u>		Cancel

3). The Application Location screen appears.

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

τ.	Fusion Middle	ware Configuration Wizard - P	age 4 of 12	×
Administrator Account				
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Name Password Confirm Password Must be the same as number or special ch	weblogic weblogic s the password. Password must contain haracter.	at least 8 alphanumeric character	s with at least one
Help			< <u>B</u> ack <u>N</u> ext > <u>F</u> in	ish 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		
 <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> <u>Component Datasources</u> <u>JDBC Test</u> <u>Advanced Configuration</u> <u>Configuration Summary</u> Configuration Progress End Of Configuration 	Domain Mode	se
Help	< <u>Back</u> <u>Next</u> > <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**: Your installation can only be secured with Identity Management if you are configuring your components in deployment mode.)

6).	The Database	Configuration	Туре	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 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: O connection Parameters O connection URL String Host Name: Dell5530 DBMS/Service: suse Port: 1521 Schema Owner: DEV_STB Schema Password:
Help	< <u>Back</u> <u>Mext</u> <u>Finish</u> Cancel

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

JDBC Component Schema							
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources	Hos DBI Sct	ndor: Connection <u>P</u> arameters st Name: MS/Service: nema Owner: Icle RAC configuration for o	Connection	ort: chema Password: [4
JDBC Test Advanced Configuration	012	Convert to C		onvert to RAC multi (data source	O Don't conv	vert
Advanced Configuration Configuration Summary		Convert to	GridLink OC	onvert to RAC multi	ow.		
Advanced Configuration Configuration Summary Configuration Progress		Convert to Convert to Convert to Convert to Convert to Convert to Component Schema	GridLink OC fect all checked in DBMS/Service	onvert to RAC multi rows in the table belo Host Name	ow. Port	Schema Owner	Schema Passwor
Advanced Configuration Configuration Summary		Convert to C ts to the data above will af Component Schema LocalSvcTbl Schema	GridLink C fect all checked of DBMS/Service SUSE	onvert to RAC multi- rows in the table belo Host Name Dell5530	ow. Port 1521	Schema Owner DEV_STB	Schema Passwoi
Advanced Configuration Configuration Summary Configuration Progress		Convert to C ts to the data above will af Component Schema LocalSvcTbl Schema WLS Schema	fect all checked of DBMS/Service SUSE SUSE	onvert to RAC multi- rows in the table belo Host Name Dell5530 Dell5530	ow. Port 1521 1521	Schema Owner DEV_STB DEV_WLS_RUN	Schema Passwor
Advanced Configuration Configuration Summary Configuration Progress		Convert to C ts to the data above will aff Component Schema LocalSvcTbl Schema WLS Schema OPSS Audit Schema	FridLink C fect all checked of DBMS/Service SUSE SUSE SUSE	onvert to RAC multi- rows in the table belo Host Name Dell5530 Dell5530 Dell5530	ow. Port 1521 1521 1521	Schema Owner DEV_STB DEV_WLS_RUN DEV_IAU_APPEI	Schema Passwor
Advanced Configuration Configuration Summary Configuration Progress		Convert to C ts to the data above will af Component Schema LocalSvcTbl Schema WLS Schema	FridLink C fect all checked of DBMS/Service SUSE SUSE SUSE	onvert to RAC multi- rows in the table belo Host Name Dell5530 Dell5530	ow. Port 1521 1521	Schema Owner DEV_STB DEV_WLS_RUN	Schema Passwor

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.

0		Fusio	on Mide	dleware Configuration Wizard -	Page	8 of 12				×
	IDBC Component Schema Tes	t						E	\bigcirc	
平	Create Domain	Sta	ntus	Component Schema			JDBC Con	nectio	n URL	
	Templates	 <td>/ Loc</td><td>alSvcTbl Schema</td><td></td><td>jdbc:oracl</td><td>e:thin:@//De</td><td>15530:</td><td>1521/SUSE</td><td></td>	/ Loc	alSvcTbl Schema		jdbc:oracl	e:thin:@//De	15530:	1521/SUSE	
	Application Location	 <td>/ WL</td><td>S Schema</td><td></td><td>jdbc:oracl</td><td>e:thin:@//De</td><td>15530:</td><td>1521/SUSE</td><td></td>	/ WL	S Schema		jdbc:oracl	e:thin:@//De	15530:	1521/SUSE	
Ι			/ OPS	SS Audit Schema		jdbc:oracl	e:thin:@//De	15530:	1521/SUSE	
Ť	Administrator Account	 <td>/ OPS</td><td>SS Audit Viewer Schema</td><td></td><td>jdbc:oracl</td><td>e:thin:@//De</td><td>15530:</td><td>1521/SUSE</td><td></td>	/ OPS	SS Audit Viewer Schema		jdbc:oracl	e:thin:@//De	15530:	1521/SUSE	
Ý	Domain Mode and JDK	 <td>/ OPS</td><td>SS Schema</td><td></td><td>jdbc:oracl</td><td>e:thin:@//De</td><td>15530:</td><td>1521/SUSE</td><td></td>	/ OPS	SS Schema		jdbc:oracl	e:thin:@//De	15530:	1521/SUSE	
ψ	Database Configuration Type									
	Component Datasources									
6	JDBC Test									
Ť	Advanced Configuration									
1										
Ý	Configuration Summary									
ý	Configuration Progress	Test	t Selecte	ed Connections <u>Cancel Testing</u>						
5	End Of Configuration	Connec	tion Res	ult Log						
		Driver=o URL=jdb User=DE Passwor SQL Tes	racle.jdb c:oracle: V_STB rd=****** st=SELEC	ema=LocalSvcTbl Schema bc.OracleDriver :thin:@//Dell5530:1521/SUSE **** CT 1 FROM DUAL Test Successful!						1000
				JDBC connection test was successful.						
		CEGEWK	(-64213)	No action required						
	Help				< [Back <u>N</u> e	xt >	inish	Canc	el

8). The JDBC Component Schema Test screen appears.

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

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

9). The Advanced Configuration screen appears.

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

	Fusion Middleware	Configuration Wizard - P	Page 10 of 14	×
System Components				
Create Domain Templates	Add X Dele	ete		🔊 Dis <u>c</u> ard Changes
Application Location	System Component	Component Type	Restart Interval Seconds	Restart Delay Seconds
Administrator Account	ohs_1	OHS 👻	3600	0
Domain Mode and JDK				
Database Configuration Type				
<u>Component Datasources</u>				
UDBC Test				
Advanced Configuration System Components				
System Components Machines				
Configuration Summary				
Configuration Progress				
O End Of Configuration				
	* *			
Help			< <u>B</u> ack <u>N</u> ext >	Einish Cancel

10). The System Components screen appears.

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

	Fusion Middlew	vare Configuration Wiz	ard - Page 11 o	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 7777 4443 http://localhost:7777			
Help			< <u>B</u> ack	<u>م N</u> ext >	inish Cancel

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

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

	Fusion Middleware Configu	uration 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	IDDLEWARE Disgard Changes Node Manager Listen Port 5556
Help		< Back Nex	t > Finish Cancel

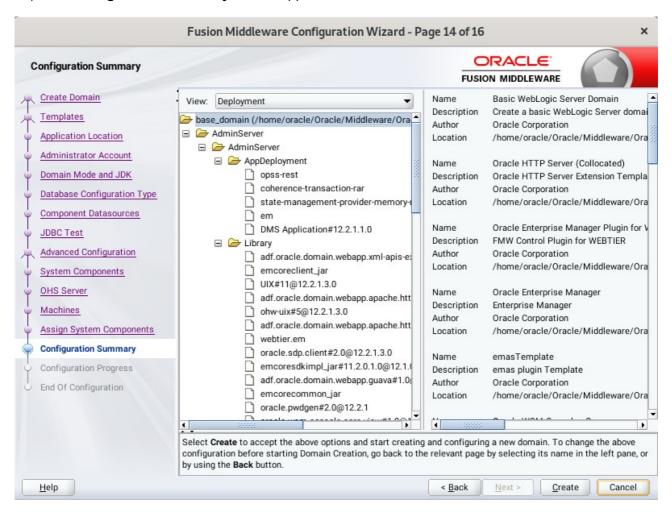
12). The **Machines** screen appears.

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

7	Fusion Middleware Configuration Wizard - Pa	ge 13 of 16 ×
Assign System Components to	Machines	
Create Domain		Machines
Templates		Sussemble 20 Susse
Application Location		SystemComponent
Administrator Account		i ohs_1
Domain Mode and JDK		
Database Configuration Type		
Component Datasources		
UDBC Test	>	
Advanced Configuration		
System Components		
OHS Server		
w Machines		
Assign System Components		
<u>Configuration Summary</u>		
Configuration Progress		
O End Of Configuration		
	Select one or more system components in the left pane and	ne machine in the right page. Then use the right arrow
	button (>) to assign the system component or components to	
Help		< Back Next > Finish 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.

F	usion Middleware Configuratio	on Wizard - Pag	ge 15 of 16	5		×
Configuration Progress						
A Create Domain						
A Templates		100%				
Application Location	Copy Unprocessed Artifacts					
Administrator Account	OPSS Processing					
Domain Mode and JDK	Security Processing					
	Artifacts Generation String Substitution					
🗘 Database Configuration Type	Post Processing					
Component Datasources	rostrocosnig					
JDBC Test						
Advanced Configuration						
System Components						
U OHS Server						
4 Machines						
Assign System Components						
Configuration Summary						
Configuration Progress						
End Of Configuration						
Help		[< Back	<u>N</u> ext >	inish	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&'

Ð			oracle@Dell5530:ns/base_domain/bin Q =							×								
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pracle@De up ./star [1] 7255					ddle	eware,	/Orac	cle_H	ome/1	user_	proje	ects/d	lomain	ns/base	_doma	in/k	oin>	noh
pracle@Dei									ome/1	user_	proj€	ects/d	lomair	is/base	e_doma	in/k	oin>	noh
oracle@Dei nm.out																		
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CLASSPATH vlserver/: modules/ features, nome/oraci - /home/oraci acle_home/oi cracle_lom cracle_Hom diddlewar cle_Middi Lassloade: es/wlserve 21 weblo	server/l thirdpar (oracle.t le/Oracle.t RACLE_SW rence.hom racle/Mid e/ohs -Do ase_doma ase_doma ase_doma e/Oracle leware/O r.weblog er/serves	b/webl cy/ant- wls.com a/Middl /Java/j Java/j Java/j ddlewar pracle. in/confi _Home/c racle_F tc.Laun c/lib/w	ogic.ja contrib mon.nod .eware/0 dk1.8.0 me/oracl ce/Oracl securit ig/fmwc oracle_c lome/use achClass yeblogic	r:/home -1.0b3. emanage pracle_H _221/bi e/Oracl y.jps.c onfig/j comfig/j common - r_proje Loader	/ora jar: r.ja lome/ .n/ja .e/Mi wlse confi ps-c Dops ects/ -Dja	acle/(:/hom/ ar::/l /wlse: ava -s iddlew erver, ig=/ho confic ss.ves /doma: ava.se	Oracl home/ rver/ serve ware/ c g-jse rsion ins/h ecuri	le/Mi acle/ /orac /modu er -X /Orac Dohs pracl e.xml n=12. pase_ ity.p	ddled Orac le/O: les/ ms32n le_H .pro e/Or 2.1. doma olic	ware/ le/Mi racle featu m -Xm ome/w duct. acle/ ommon 3 -Dw in -D y=/ho	Oracl ddlew /Midd res/c x200m lserv home= Middl .comp rebloc java. me/or	le_Hom ware/C alewar pracle n -Djo yer/ =/home Leware ponent gic.Rc .syste racle/	he/wls Dracle ce/Ora a.wls. k.tls /cohe a/orac a/Orac cs.hom potDir em.cla 'Oracl	erver/ e_Home/ ccle_Ho commor s.ephen erence cle/Ora cle_Hom eectory ass.loa	/or wlser me/wl .griz -Dbea cle/M me/use ne/ora -/hom der=c llewar	acle ver/ serv zly. HKey .hom iddl r_pr cle/ cle/on com.c	e_con /modi .jar ySiz(me=/] lewa: roje(/Ora(racl(prac)	nmon ules :/ e=20 home re/0 cts/ cle/ cle/ cle/ cle.c e_Ho
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.4.0> Sep 3, 20 /oracle/(rties'>																		
Sep 3, 20 .e_Home/u														'Oracle	/Midd	lewa	are/(Drac

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

	oracle@Dell5530:ns/base_domain/bin	٩ =	×
oracle@Dell5	× oracle@Dell5 × oracle@Dell5 × oracle@Dell5 × oracle@Dell5 ×	oracle@Dell5 ×	-
<pre><sep .="" 202="" 3,="" <sep="" istening="" multi="" on="" ps="" to=""> <sep 19="" 202="" 202<="" 3,="" <sep="" csep="" ening="" istening="" on="" pre=""></sep></sep></pre>	<pre>: Resolving connection list DomainRuntimeServiceMBean> 0 11:09:27,795 PM GMT+08:00> <warning> <server> <bea-002611> <the host<br="">ple IP addresses: 127.0.0.1, 0:0:0:0:0:0:0:0:1.> 0 11:09:27,796 PM GMT+08:00> <notice> <server> <bea-002613> <channel "<br="">127.0.0.1:7001 for protocols iiop, t3, ldap, snmp, http.> 0 11:09:28,064 PM GMT+08:00> <notice> <server> <bea-002613> <channel "<br="">2408:8207:c52:80f0:97c0:flab:c113:fe8e%eth0:7001 for protocols iiop, 0 11:09:28,065 PM GMT+08:00> <notice> <server> <bea-002613> <channel "<br="">0:0:0:0:0:0:0:0:1%lo:7001 for protocols iiop, t3, ldap, snmp, http.> 0 11:09:28,065 PM GMT+08:00> <notice> <server> <bea-002613> <channel "<br="">0:0:0:0:0:0:0:0:1%lo:7001 for protocols iiop, t3, ldap, snmp, http.> 0 11:09:28,065 PM GMT+08:00> <notice> <server> <bea-002613> <channel "<br="">2.168.1.7:7001 for protocols iiop, t3, ldap, snmp, http.> 0 11:09:28,401 PM GMT+08:00> <notice> <server> <bea-002613> <channel "<="" pre=""></channel></bea-002613></server></notice></channel></bea-002613></server></notice></channel></bea-002613></server></notice></channel></bea-002613></server></notice></channel></bea-002613></server></notice></channel></bea-002613></server></notice></the></bea-002611></server></warning></pre>	Default[4]" is n Default[1]" is n t3, ldap, snmp, Default[3]" is n Default" is now Default[2]" is n	now 1 how 1 http now 1 list now 1
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istening on <sep 202<br="" 3,="">ening on 19 <sep 202<br="" 3,="">istening on .></sep></sep>	0 11:09:28,406 PM GMT+08:00> <notice> <server> <bea-002613> <channel "<br="">0:0:0:0:0:0:0:1%lo:7001 for protocols iiop, t3, ldap, snmp, http.> 0 11:09:28,406 PM GMT+08:00> <notice> <server> <bea-002613> <channel "<br="">2.168.1.7:7001 for protocols iiop, t3, ldap, snmp, http.> 0 11:09:28,407 PM GMT+08:00> <notice> <server> <bea-002613> <channel "<br="">2408:8207:c52:80f0:a137:74a7:233d:dfa0%eth0:7001 for protocols iiop, 0 11:09:28,410 PM GMT+08:00> <notice> <weblogicserver> <bea-00360> <t< td=""><th>Default" is now Default[2]" is n t3, ldap, snmp,</th><td>list Now 1 http</td></t<></bea-00360></weblogicserver></notice></channel></bea-002613></server></notice></channel></bea-002613></server></notice></channel></bea-002613></server></notice>	Default" is now Default[2]" is n t3, ldap, snmp,	list Now 1 http
RUNNING mc	de.> 0 11:09:28,456 PM GMT+08:00> <notice> <weblogicserver> <bea-000365> <s< td=""><th></th><td></td></s<></bea-000365></weblogicserver></notice>		

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.

oracle@Dell5530:/home/oracle/Oracle/Middleware/Oracle Home/ohs/common/bin> ./wlst.sh WARNING: This is a deprecated script. Please invoke the wlst.sh script under oracle common/common/bin. Initializing WebLogic Scripting Tool (WLST) ... Welcome to WebLogic Server Administration Scripting Shell Type help() for help on available commands wls:/offline> connect ('weblogic', 'welcome1', 'Dell5530:7001') Connecting to t3://Dell5530:7001 with userid weblogic ... Successfully connected to Admin Server "AdminServer" that belongs to domain "base_domain". Warning: An insecure protocol was used to connect to the server. To ensure on-the-wire security, the SSL port or Admin port should be used instead. wls:/base_domain/serverConfig/> ohs_updateInstances()
Location changed to edit custom tree. This is a writable tree with No root.
For more help, use help('editCustom') Starting an edit session ... Started edit session, be sure to save and activate your changes once you are done. Saving all your changes ... Saved all your changes successfully. Activating all your changes, this may take a while ... The edit lock associated with this edit session is released once the activation is completed. Activation completed OHS instances have been updated successfully. wls:/base_domain/serverConfig/>

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

Login Page:

	Sign in - Ora	acle Enterprise Manager - Mozilla Fire	fox		×
🖸 EM Express - Database 🗄 🗙	Sign in - Oracle Enterprise	× +			
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		N TO C LE ENTERPRISE MAN/ ON MIDDLEWARE CONT			
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Home Page:	
	base_do
EM Express - Database H X	base o

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 Information 	s available only when you own the edit se						×
1 up	Administration Server Name AdminSe Host Dell5530 Listen Port 7001 Servers View V Create Delete		N 7 8				
Clusters	Name	Status	Cluster	Machine	State	Health	
	AdminServer(admin)	+			Running	ок	
Deployments							
~	Columns Hidden 34					Servers 1 of	f 1

Starting Oracle HTTP Server (ohs_1)

		ohs_1 (Oracle HTTP Serv	ver) - Oracle Enterprise Ma	anager	- Mozilla Firefox	×
🖸 EM Express - Database 🗄	×	ohs_1 (Oracle HTTP Server)	× +			
← → ♂ ଢ [i	http://dell5530:7001/em/faces	/as_ohs_ohsHome?type=0	oracle	90% 🗟 🏠 💷 🕲	≡
	e Ma	nager Fusion Middleware Control 12c			WebLogic Domain 🔻 🛛 weblogic 💌	
+ ohs_1 •		🕨 Start Up 📄 Shut Down 【 R	estart		Sep 3, 2020 11:18:51 PM GMT+08:00 🕇	• ย
Monitoring		General		Resp	oonse and Load	
Metrics Unavailable	•	State Host Ports	12.1.4.0 Shutdown 192.168.1.7 7777 4443 127.0.0.1:7779 SuSE_Machine_1	F F	A PM 11:07 11:10 11:13 11:16 September 03 2020 Sequest Processing Time (mill second s) Domain_base_domain/base_domain/ohs_1: Request Throu Table View	
Modules O Modules	•	Key Statistics Idle Processes Busy Processes Error Rate (%)	Unavailable	CPU	and Memory Usage	
		Connection Duration (seconds) Request Processing Time (seconds) Request Throughput (per second) Response Data Throughput	Unavailable Unavailable -1.00	11:0	A PM 11:07 11:10 11:13 11:16 September 03 2020	
		1	-1.00			

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EM Express - Database \vdash	×	ohs_1 (Oracle HTTP Server)	× +						
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1 ohs_1									• •
🌄 Oracle HTTP Server 👻		🕨 Start Up 📃 Shut Down 🔣 R	estart				Sep 3, 2020	11:19:43 PN	/I GMT+08:0
Monitoring 0.00		General		Response	and Load				
CPU Usage (%)		Component Name	ohs_1						
0.00		Version	12.2.1.4.0						
Memory Usage (%)		State	Running						
		Host	192.168.1.7						
Virtual Hosts		Ports	7777 4443 127.0.0.1:7779						
		Machine Name	SuSE_Machine_1	11:05 PM Septe	11:08 mber 03 2020	11:11	11:14	11:17	
0 Virtual Hosts	•	Auto Restart		4					•
VIITUAI HOSIS			/home/oracle/Oracle/Middleware	Request	Processing Tim _base_domain/	ie (milli second base_domain/	s) ohs_1:Request	t Throu	
		Oracle Home	/Oracle_Home						Table View
Modules		Key Statistics							
		Idle Processes	Unavailable	CPU and M	Memory Us	age			
0 Modules	•	Busy Processes	Unavailable						
		Error Rate (%)	-1.00						
		Connection Duration (seconds)	Unavailable						
		Request Processing Time (seconds)	Unavailable						
		Request Throughput (per second)	-1.00		11:08 ember 03 2020	11:11	11:14	11:17	
		Response Data Throughput (KB/second)	-1.00	•	CDIIIIsa		Memory Usar		•

OHS Ports Configuration as shown below.

Image: Control 12c Image: Co			Port Usage: o	ohs_1 (Oracle HTTP Server) - Oracle Enterprise Man	ager - Mozilla Firefox
Port in Use P Address Component Protocol 7779 127.0.0.1 ohs_1 HTTPS 4443 ALL ohs_1 HTTPS	EM Expre	ss - Database H	× Port Usage:	ohs_1 (Oracle H × +	
Port in Usage IP Address Component Protocol 7779 127.0.0.1 ohs_1 HTTPS 4443 ALL ohs_1 HTTPS) → C	ŵ	i http://dell553	30:7001/em/faces/as/as/portsUsage?type=oracle	90% … 🗟 🖞 🔟 🕄
Image: Source HTTP Server Image: Start Up			se Manager Fusion M	iddleware Control 12c	WebLogic Domain 💌 weblogic 💌 📼
Porting Use IP Address Component Protocol 7779 127.0.0.1 ohs_1 HTTPS 4443 ALL ohs_1 HTTPS			Start Up	Shut Down 🚺 Restart	Sep 3, 2020 11:20:22 PM GMT+08:00
7779 127.0.1 ohs_1 HTTPS 444 ALL ohs_1 HTTPS	ort Usag	e			
4443 ALL ohs_1 HTTPS	Port in Use	IP Address	Component	Protocol	
	7779	127.0.0.1	ohs_1	HTTPS	
7777 ALL ohs_1 HTTP	4443	ALL	ohs_1	HTTPS	
	7777	ALL	ohs_1	HTTP	

2). Access to Administration Server Console

Login Page as show	wn below:						
	Oracle WebLogic Serve	er Administration Console - Mozilla	a Firefox				×
🖸 EM Express - Database H 🛛	× Port Usage: ohs_1 (Oracle $\exists x$	Oracle WebLogic Server Adr 🗙	+				
← → ♂ ŵ	①	ogin/LoginForm.jsp	90% 🗵) 合	lii\	•	≡
	Logic Server Administration	Console 12c					
	Logio Corver Administration						
				Welcome			
			Log in to work with the W	ebLogic Server domain			
			Username:	weblogic			
			Password:	•••••			
					L	ogin	
WebLogic Server Version: 12.2.1.4.0 Copyright (c) 1996,2019, Oracle and/or its affilia							
	oration and/or its affiliates. Other names may be trademarks o	of their respective owners.					

Home Page:

	Home Page - base_domain - WLS Console - Mozilla Firefox ×								
🖸 EM Express - Database 🗄 🗙	Port Usage: ohs_1 (Oracle $\exists \exists x$	Home Page – base_domain – 🗙 🕂							
← → C û	http://dell5530:7001/console/cons	sole.portal?_nfpb=true& 🗉 90%		=					
	dministration Console 12c		Q						
Change Center	💼 Home Log Out Preferences 🔤 Record I	Help	Welcome, weblogic Connected to: base_domain	n					
View changes and restarts	Home			. I					
Click the Lock & Edit button to modify, add or delete items in this domain.	Home Page								
Lock & Edit Release Configuration	Helpful Tools	General Information							
Domain Structure	Configure applications Configure GridLink for RAC Data Source	 Common Administration Task Descriptions Read the documentation 							
base_domain &-Domain Partitions -Environment -Deployments -Services	Configure a Dynamic Cluster Recent Task Status Set your console preferences Oracle Enterprise Manager	Ask a question on My Oracle Support							
Security Realms Interoperability	- Domain Configurations								
⊕-Diagnostics	Domain	Resource Group Templates	Interoperability						
	• Domain	Resource Group Templates	WTC Servers						
	Domain Partitions	Resource Groups	Jolt Connection Pools						
	Domain Partitions	Resource Groups	Diagnostics						
How do I	Partition Work Managers	Deployed Resources	Log Files Diagnostic Modules						
Search the configuration	Environment	Deployments	Built-in Diagnostic Modules						
Use the Change Center	Servers		Diagnostic Images						
Record WLST scripts	Clusters	Services	Request Performance Archives						
Change Console preferences Manage Console extensions	 Server Templates Migratable Targets 	Messaging	Context						
Monitor servers	Coherence Clusters	 JMS Servers Store-and-Forward Agents 	SNMP						
	Machines	 JMS Modules 	Interceptors						
System Status	Virtual Hosts	 Path Services 							
Health of Running Servers as of 11:21 PM	Virtual Targets	 Bridges 	Charts and Graphs						
Failed (0)	Work Managers Concurrent Templates	Data Sources Persistent Stores	Monitoring Dashboard						

		Summary of Servers - bas	se_domain - W	LS Console	- Mozill	la Firef	fox					×
EM Express - Database H × Po	ort Usa	ge: ohs_1 (Oracle ⊣ੋ ×	Summary of S	ervers - bas	e_ ×	+						
$\leftarrow \rightarrow C' \ c $	tp://del	l5530:7001/console/cons	ole.portal?_nfp	b=true&_	Ē	90%	⊌	☆	lii1	•	٢	≡
	nistration (Console 12c									ç	2 [
Change Center 1	🔒 Home	Log Out Preferences 🔤 Record H	elp	Q			v	Velcome, weblogic	Connect	ted to:ba	se_dom	nain
View changes and restarts	Home >St	ummary of Servers										
delete items in this domain.	Summary o Configura A server		runs in its own Java Virt	ual Machine (JVM)) and has it:	s own conf	figuration.					
Domain Structure	This pag	je summarizes each server that has bee	en configured in the curr	ent WebLogic Sen	ver domain	l.						
base_domain B-Domain Partitions B-Environment B-Doployments B-Services B-Services B-Services B-Interoperability B-Diagnostics	Servers	nize this table (Filtered - More Columns Exist) 2 Lock & Edif button in the Change Cente	er to activate all the butte	ons on this page.								
	New	Clone Delete						Showing 1 t	olofi P	revious	Next	
		Name	Туре	Cluster	Machine		State	Health	Listen P			
		AdminServer(admin)	Configured				RUNNING	🖋 ок	7001			
How do I	New	Clone Delete						Showing 1 t	olof1 P	revious	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 11:22 PM												
Failed (0)												

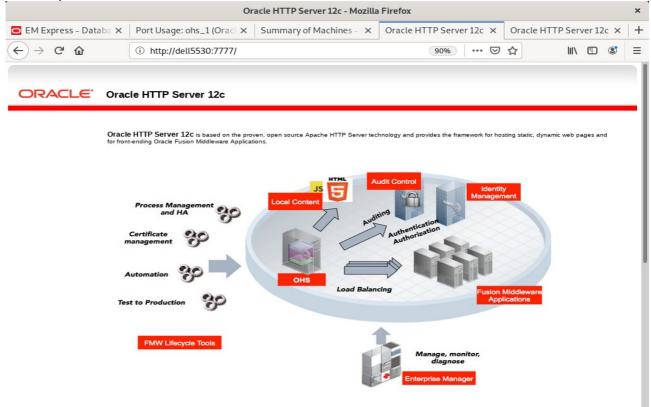
Viewing the summary of servers:

Viewing the summary of Machines:

	Summary of Machines - base_domain - WLS Console - Mozilla	Firefox ×
🖸 EM Express - Database 🗄 🗙	Port Usage: ohs_1 (Oracle HT × Summary of Machines - base × H	F
← → ♂ @ ③	http://dell5530:7001/console/console.portal?_nfpb=true&	∞ … ⊽ ☆ ॥\ ₪ © ≡
	Iministration Console 12c	Ŏ
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: base_domain
View changes and restarts	Home >Summary of Servers >Summary of Machines	
Click the Lock & Edir button to modify, add or delete items in this domain. Lock & Edit Release Configuration	Summary of Machines A machine is the logical representation of the computer that hosts one or more WebLogic Server instanc determine the optimum server in a cluster to which certain tasks, such as HTTP session replication, are di conjunction with Node Manager to start remote servers.	
Domain Structure	This page displays key information about each machine that has been configured in the current WebLogi	jic Server domain.
base_domain @)-Domain Partitions (b)-Environment Deployments B)-Services Security Realms (b)-Interoperability	Customize this table Machines Click the Lock & Edit button in the Change Center to activate all the buttons on this page.	
Diagnostics	New Clone Delete	Showing 1 to 1 of 1 Previous Next
	Name SUSE_Machine_1 New Clone Delete	Type Machine Showing 1 to 1 of 1 Previous Next
How do I		
Create and configure machines Assign server instances to machines Clone machines Delete machines System Status	L	
System Status Health of Running Servers as of 11:23 PM		
Failed (0) Critical (0) Overloaded (0) Warning (0)		

3). Access to Oracle HTTP Server listening address

URL: http://host:7777/



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

	Oracle HTTP	Server 12c - Mozilla Firefox			×
🖻 EM Express - Databa 🗙	Port Usage: ohs_1 (Oracl × Summar	y of Machines - 🗙 🕴 Oracle H	TTP Server 12c 🗙	Oracle HTTP Server 12c >	(+
\leftarrow \rightarrow C \textcircled{a}	i 🔒 https://dell5530:4443/		90% 🗵	☆ Ⅲ\ 🗉 📽	=
ORACLE' Orac	tle HTTP Server 12c				
Oracl for from	e HTTP Server 12c is based on the proven, open sou t-ending Oracle Fusion Middleware Applications.	ce Apache HTTP Server technology and pro	ovides the framework for hos	ting static, dynamic web pages and	
	_	JS 5 Audit Control	Identity Managem		
	Process Management and HA	Pris I	100		
	Certificate	Auditoria	ation		
			225		
	Automation				
Te	st to Production	Load Balancing		Aiddleware ications	
	9				
	FMW Lifecycle Tools	1			
		M	anage, monitor,		

	Oracle HTT	TP Server 12c - Mozilla Firefox			×
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← → ♂ ŵ	🛈 🐔 https://127.0.0.1:7779/		⊌ ☆	III\ 🗊 📽	≡
ORACLE	Oracle HTTP Server 12c				
					-
	Dracle HTTP Server 12c is based on the proven, open		nd provides the framework for hos	ting static, dynamic web	
p	ages and for front-ending Oracle Fusion Middleware Applica	ations.			
		_			
		JS C Audit	Control	Identity	
	Process Management	Local Content		nagement	
	and HA	Auditing	ientication		
	Certificate management		Authentication Authorization		
	Automation	OHS			
	30	Load Balancing		usion Middleware	
				Applications	
	Test to Production			Applications	
	0	*		Applications	
	FMW Lifecycle Tools		Manage, monitor,	Applications	

Admin Host SSL URL: https://host:7779/

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

oracle@Dell5530:/home/oracle/Oracle/Middleware/Oracle_Home/ohs/common/bin> ./wlst.sh WARNING: This is a deprecated script. Please invoke the wlst.sh script under oracle common/common/bin. Initializing WebLogic Scripting Tool (WLST) ... Welcome to WebLogic Server Administration Scripting Shell Type help() for help on available commands wls:/offline> connect ('weblogic','welcome1','Dell5530:7001')
Connecting to t3://Dell5530:7001 with userid weblogic ... Successfully connected to Admin Server "AdminServer" that belongs to domain "base_domain". Warning: An insecure protocol was used to connect to the server. To ensure on-the-wire security, the SSL port or Admin port should be used instead. wls:/base_domain/serverConfig/> ohs_updateInstances()
Location changed to edit custom tree. This is a writable tree with No root.
For more help, use help('editCustom') Starting an edit session ... Started edit session, be sure to save and activate your changes once you are done. Saving all your changes ... Saved all your changes successfully. Activating all your changes, this may take a while ... The edit lock associated with this edit session is released once the activation is completed. Activation completed OHS instances have been updated successfully. wls:/base domain/serverConfig/> state('ohs 1') Current state of "ohs_1" : RUNNING wls:/base_domain/serverConfig/> []

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_221 and later installed.
- 3). Oracle WebLogic Server 12cR2 (12.2.1.4.0) (Fusion Middleware Infrastructure Installer)

1-2. Log in to the target system (SLES 15 SP2 64-bit OS) as a non-admin user. Download the Oracle WebCenter Portal 12c (12.2.1.4.0) from <u>https://www.oracle.com/downloads/#category-middleware</u>.

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

1-3. Go to the directory where you downloaded the installation program. Extract the contents of this .zip (V983398-01.zip) file and launch the installation program by running '**java -jar fmw_12.2.1.4.0_wcportal.jar**'

For the actual installation, follow the steps below:

1). Installation Inventory Setup.

Installation Inven	tory Setup		
Central Inventory Directory			
Enter the Central inventory of inventory directory if it does	· ·	stallations.The installer will create a ne	w central
Inventory Directory:	/home/oracle/oralnventor	у	Browse
	Enter the full path for the	directory.	
Operating System Group :	oinstall		
	Specify a group with write	permission to the inventory directory	
Central Inventory Pointer Fi	le		
-		n the inventory directory. Run this script central inventory for future installations	
administrative operations,	such as patching and upgrad	e.	

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

2). Welcome page.

Or	acle Fusion Middleware 12c WebCenter Portal Installation - Step 1 of 8
Velcome	
Welcome	
Auto Updates	Welcome to the Oracle Fusion Middleware 12c (12.2.1.4.0) WebCenter Portal Installer.
Installation Location	Use this installer to install the WebCenter Portal software into an existing Oracle Home.
Installation Type	Before proceeding, ensure that you have installed Oracle Fusion Middleware Infrastructure 12c.
Prerequisite Checks	For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware documentation library.
Installation Summary	Context-sensitive online help is available from the Help button.
Installation Progress	
Installation Complete	
	Copyright © 1996, 2019, Oracle and/or its affiliates. All rights reserved.
Help	< Back Next > Finish Cancel

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

Orac	le Fusion Middleware 12c WebCenter Por	tal Installation - Step 2 of 8 ×
Auto Updates		
Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Progress Installation Complete	Skip Auto Updates Select patches from directory Location: Search My Oracle Support for Updates Username: Proxy Settings Search	Brgwse
Help		< <u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel

3). The Auto Updates page appears.

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

Installation Location Feature Sets Installed At Selected Oracle Home: View Installation Type Oracle Fusion Middleware 12c Infrastructure 12.2.1.4.0 Prerequisite Checks Core Application Server 12.2.1.4.0 Installation Progress Web 2.0 HTTP Pub-Sub Server 12.2.1.4.0 Installation Complete Web 2.0 HTTP Pub-Sub Server 12.2.1.4.0 WebLogic SCA 12.2.1.4.0 WebLogic SCA 12.2.1.4.0 Enterprise manager 12.2.1.4.0 Enterprise manager 12.2.1.4.0 Enterprise manager 12.2.1.4.0 Enterprise manager 12.2.1.4.0 Enterprise Manager VLS for FMW 12.2.1.4.0 WebLogic SC invers 12.2.1.4.0 Enterprise Manager VLS for FMW 12.2.1.4.0 WebLogic Christian Barger Fusion Middleware Maven Support 12.2.1.4.0 Surface Support Third party JDBC Drivers 12.2.1.4.0 Open Source Components Fusion Middleware Maven Support 12.2.1.4.0 Open Source Components Fusion Middleware Maven Support 12.2.1.4.0 Oracle Automatic Diagnostic Repository Feature Set Group FMW Platform Generic 12.2.1.4.0 Oracle Automatic Diagnostic Repository Feature Set Group FNW Platform Generic 12.2.1.4.0 Oracle Home/nome/oracle/Oracle/Middleware/Oracle_Home will be used for all Oracle Feature Sets in installation.	nstallation Location		
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Oracle Automatic Diagnostic Repository Feature Set Group FMW Platform Generic 12.2.1.4.0 OPatch 13.9.4.2.1 The Oracle Home /home/oracle/Oracle/Middleware/Oracle_Home will be used for all Oracle Feature Sets in rinstallation. This page only shows Feature Sets installed at the selected Oracle Home.		JRF and Enterprise Manager	
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OPatch 13 9 4 2 1 The Oracle Home /home/oracle/Oracle/Middleware/Oracle_Home will be used for all Oracle Feature Sets in installation. This page only shows Feature Sets installed at the selected Oracle Home.		Oracle Automatic Diagnostic Repository Feature Set Group	
The Oracle Home /home/oracle/Oracle/Middleware/Oracle_Home will be used for all Oracle Feature Sets in installation. This page only shows Feature Sets installed at the selected Oracle Home.		FMW Platform Generic 12.2.1.4.0	-
installation. This page only shows Feature Sets installed at the selected Oracle Home.		OPatch 12 9 4 2 1	
			n this
It does not show Feature Sets installed anywhere else.		This page only shows Feature Sets installed at the selected Oracle Home. It does not show Feature Sets installed anywhere else.	

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

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

Orac	le Fusion Middleware 12c WebCenter Portal Installat	ion - Step 4 of 8	×
Installation Type			
 Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Progress Installation Complete 	 <u>WebCenter Portal</u> <u>SOA Composites </u> <u>Oracle Fusion Middleware 12c WebCenter Portal 12.2.1.4.0</u> <u>WebCenter Portal</u> <u>Oracle WebCenter Portal Base 12.2.1.4.0</u> <u>Oracle ECMClient 12.2.1.4.0</u> <u>Oracle WebCenter ADF Reusable UI 12.2.1.4.0</u> <u>Enterprise Manager Plugin for WebCenter 12.2.1.4.0</u> <u>Oracle 13.9.4.2.1 </u> 		
Help	[< Back Next > E	nish Cancel

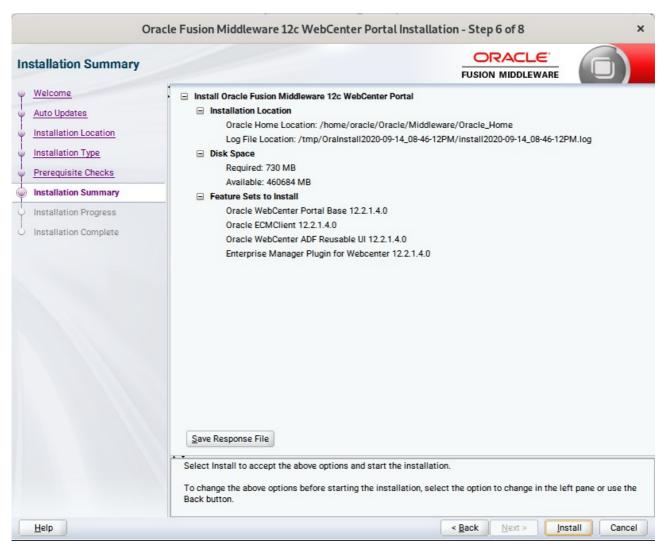
5). The **Installation Type** page appears.

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

Oracle	Fusion	Middleware 12c WebCenter Portal Installation - Step 5 of 8	×
Prerequisite Checks			
<u>Welcome</u>			
Auto Updates		100%	
Installation Location	1	Checking operating system certification	
Installation Type	V	Checking Java version used to launch the installer	
Prerequisite Checks			
Installation Summary			
↓ Installation Progress			
Installation Complete			
		Rerun Skip ✓ View Successful Tasks cking operating system certification	View <u>L</u> og
	Ar Cl Cl Che E⊃ E⊃	pected result: One of oracle-6, oracle-7, redhat-7, redhat-6, SuSE-11, SuSE-12, SuSE-15 tual Result: SuSE-15-SP2 neck complete. The overall result of this check is: Passed icking Java version used to launch the installer pected result: 1.8.0_191 tual Result: 1.8.0_221 neck complete. The overall result of this check is: Passed	
Help		< Back Next > Finit	sh 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.

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

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 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/Oralnstall2020-09-14_08-46-12PM/install2020-09-14_08-46-12PM.log Feature Sets Installed Successfully Oracle WebCenter Portal Base 12.2.1.4.0 Oracle ECMClient 12.2.1.4.0 Oracle WebCenter ADF Reusable UI 12.2.1.4.0 Enterprise Manager Plugin for WebCenter 12.2.1.4.0 Pre-Existing Feature Sets OPatch 13.9.4.2.1

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.

	Repository Cre	ation Utility - Step 4 of	8		
ository Creation Utility					
Velcome	 Specify a unique prefix for all scl schemas later. 	hemas created in this session,	so you can easily locate, reference, and man	iage t	
Create Repository					
Database Connection Details	Select existing prefix:				
Select Components					
	Oreate new prefix:	DEV			
Schema Passwords		Alpha numeric only. Canr	not start with a number. No special character	rs.	
Map Tablespaces					
Summary	Component		Schema Owner		
	Oracle AS Repository				
Completion Summary	B AS Common Sch				
		astructure Services *	DEV_STB		
		m Security Services	DEV_OPSS		
	User Messagir		UMS		
	Audit Services		DEV_IAU		
	Audit Services		DEV_IAU_APPEND		
	Audit Services		DEV_IAU_VIEWER		
	Metadata Serv		DEV_MDS DEV_WLS		
	Weblogic Serv				
	■ WebCenter Porta				
	Portal and Ser		DEV_WEBCENTER		
	Portlet Produc	Ders	DEV_PORTLET		
	Analytics		DEV_ACTIVITIES		

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

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

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

Follow these steps:

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

	Fusion Midd	lleware	e Config	guratio	n Wizar	d - Page 1	1 of 8					×
Configuration Type										(
Create Domain <u>Templates</u> <u>Administrator Account</u> <u>Domain Mode and JDK</u> <u>Advanced Configuration</u> <u>Configuration Summary</u> Configuration Progress End Of Configuration	What do you want © Create a new do Domain Location: Create a new doma	domain sting dom racle/		Middlewar	e/Oracle_	_Home/user,					Brows	38
Help						< <u>B</u> a	ack	<u>N</u> ext >	<u>E</u> ini:	sh	Canc	el

Click Next to continue.

2). The Templates screen appears.

	Fusion Middlew	vare Configuration Wizard - F	Page 2 of 12	×
Templates				
Create Domain Femplates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Filter Templates: Available Templat Basic WebLog Oracle WebCe Oracle WebCe Oracle WebCe Oracle Enterpr Oracle Enterpr Oracle B2B Cli Oracle User M Oracle JRF SO Oracle RAS Se Create Domain Us	ic Server Domain [wlserver] * nter Portal [wcportal] nter Pagelet Producer [wcportal] nter Portlet Producers [wcportal] nter Analytics Collector [wcportal] ise Manager [em] ise Manager-Restricted JRF [em]	ion]	templates
Help			< <u>Back N</u> ext > Fini	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 WebCenter Portal [wcportal]

Selecting this template automatically selects the following as dependencies:

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

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

E.	Fusion Middlew	vare 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>Back</u> <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 Middle	ware Configuration Wizard -	Page 4 of 12	×
Administrator Account				
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Name Password Confirm Password Must be the same as number or special ch	weblogic	in at least 8 alphanumeric chara	cters with at least one
<u>H</u> elp			< <u>Back N</u> ext >	Einish Cancel

4). The Administrator Account screen appears.

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

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

6).	The Database	Configuration	Туре	screen appears.
-----	--------------	---------------	------	-----------------

T.	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	 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
Configuration Progress End Of Configuration	Schema Owner: DEV_STB Schema Password: Get RCU Configuration Cancel Connection Result Log Connecting to the database serverOK Retrieving schema data from database serverOK Binding local schema components with retrieved dataOK
Help	Successfully Done.

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

C		F	usion Middleware Co	onfiguration	Wizard - Page	7 of 12		×
J	IDBC Component Schema							
	Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test	 Ho: DBI Sch 	ndor: Connection <u>P</u> arameters st Name: MS/Service: nema Owner: ncle RAC configuration for		Driver: LURL String Port: Schema Password: mas:			
	Advanced Configuration Configuration Summary Configuration Progress	Convert to GridLink Convert to RAC multi data source Don't convert Edits to the data above will affect all checked rows in the table below. Component Schema DBMS/Service Host Name Port Schema Owner Schema Password						
0	End Of Configuration	1	ActivitiesDS Schema	SUSE	Dell5530	1521	DEV_ACTIVITIE	
		Ē	LocalSvcTbl Schema	SUSE	Dell5530	1521	DEV_STB	
			PortletDS Schema	SUSE	Dell5530	1521	DEV_PORTLET	
			WLS Schema	SUSE	Dell5530	1521	DEV_WLS_RUN	
			WebCenterDS Schema	SUSE	Dell5530	1521	DEV_WEBCENT	
			mds-PageletProducerDS	SUSE	Dell5530	1521	DEV_MDS	
			WebCenter MDS Schem	SUSE	Dell5530	1521	DEV_MDS	
			OWSM MDS Schema	SUSE	Dell5530	1521	DEV_MDS	
	Help				< <u>F</u>	ack L	lext >Ein	ish Cancel

7). The JDBC Component Schema screen appears.

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

Fusion Middleware Configuration Wizard - Page 8 of 12 ×					
JDBC Component Schema Test					
平	Create Domain		Status	Component Schema	JDBC Connection URL
	Templates		1	ActivitiesDS Schema	jdbc:oracle:thin:@//Dell5530:1521/SUSE
5	Application Location	 	1	LocalSvcTbl Schema	jdbc:oracle:thin:@//Dell5530:1521/SUSE
Ι	Administrator Account		1	PortletDS Schema	jdbc:oracle:thin:@//Dell5530:1521/SUSE
Ť			1	WLS Schema	jdbc:oracle:thin:@//Dell5530:1521/SUSE
Ŷ	Domain Mode and JDK		1	WebCenterDS Schema	jdbc:oracle:thin:@//Dell5530:1521/SUSE
Ý	Database Configuration Type		1	mds-PageletProducerDS Schema	jdbc:oracle:thin:@//Dell5530:1521/SUSE
ų.	Component Datasources		1	WebCenter MDS Schema	jdbc:oracle:thin:@//Dell5530:1521/SUSE
	JDBC Test		1	OWSM MDS Schema	jdbc:oracle:thin:@//Dell5530:1521/SUSE
Ť			1	OPSS Audit Schema	jdbc:oracle:thin:@//Dell5530:1521/SUSE
1	Advanced Configuration	-	1	OPSS Audit Viewer Schema	jdbc:oracle:thin:@//Dell5530:1521/SUSE
	Configuration Summary Configuration Progress End Of Configuration Connection Result Log				
0	Component Schema=ActivitiesDS Schema Driver=oracle.jdbc.OracleDriver URL=jdbc:oracle:thi:@//Dell5530:1521/SUSE User=DEV_ACTIVITIES Password=******** SQL Test=select 1 from schema_version_registry where owner=(select user from dual) and mr_types CFGFWK-64213: Test Successful! CFGFWK-64213: JDBC connection test was successful.				(select user from dual) and mr_type='ACTIVITIES'
	Help				Back Next > Finish Cancel

8). The JDBC Component Schema Test screen appears.

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

	Fusion Middleware Configuration Wizard - Page 9 of 21	×
Advanced Configuration		
Create Domain Create Domain Create Domain Create Domain Create Domain Create Domain Create Composition Location Composition Administrator Account Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Coherence Clusters Machines Virtual Targets Partitions Configuration Progress Configuration Progress Configuration Progress		
Help	< Back Next > Einish	Cancel

9). The Advanced Configuration screen appears.

On the Advanced Configuration screen, select:

- Administration Server
- Node Manager
- Topology

Then, click **Next** to continue.

	Fusion Middleware Configuration Wizard - Page 10 of 21	×
Administration Server		
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Coherence Clusters Machines Virtual Targets Partitions Configuration Progress	Server Name AdminServer Listen Address All Local Addresses Listen Port 7001 Enable SSL SSL Listen Port Server Groups Unspecified The name must not be null or empty and may not contain any : , = * ? % / _cloned.	
Help	< <u>Back</u> <u>Next</u> > <u>Finish</u> Cance	A

10). The Administration Server screen appears.

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

Click Next to continue.

	Fusion Middleware	Configuration Wizard - Pa	age 11 of 21	L		×
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 	Node Manager Type Per Domain Default Lo Per Domain Qustom Lo Node Manager Home: Manual Node Manager Node Manager Credentials Username: Password: Confirm Password:	ocation re/Oracle_Home/user_project: r Setup weblogic sssword. Password must contain				B <u>r</u> owse
Configuration Progress			< <u>B</u> ack	<u>N</u> ext >	<u>F</u> 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		👍 Add 🖹 C	lone 🔀 Delete			🔊 Dis <u>c</u>	ard Changes
Application Location Administrator Account		Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Group
Domain Mode and JDK		WC_Portlet	192.168.1.7	8889		Disabled	WebCenter
Database Configuration Type		WC_Portal	192.168.1.7	8888		Disabled	WebCenter
Component Datasources JDBC Test Advanced Configuration	24						
Advanced Configuration Administration Server Node Manager Managed Servers	10000						
JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters							
JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates	100000						
JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters	100000						
JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Coherence Clusters	100000						
JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Coherence Clusters Machines							

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.

,	9093 9093	Fusion Middlewa	are Configuration	Wizard - P	age 13 o	f 23	×
Clusters					ī		
Templates		🛉 Add 🗙	<u>D</u> elete				Dis <u>c</u> ard Changes
Application Location		Cluster Name	Cluster Address	Fronten	d Host	Frontend HTTP Port	Frontend HTTPS Port
Administrator Account		wcp_cluster_1				0	0
Domain Mode and JDK		wcp_cluster_2				0	0
Database Configuration Type							
Component Datasources							
JDBC Test							
Advanced Configuration							
Administration Server	8						
Vode Manager							
Managed Servers							
Clusters							
Server Templates							
Dynamic Servers							
<u>Assign Servers to Clusters</u>							
<u>Coherence Clusters</u>							
<u>Machines</u>							
Virtual Targets		22/31/					
Partitions	•						
Help					< <u>B</u> ack	<u>N</u> ext > <u>F</u> ir	nish 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.

Create Domain Templates	• <u>• A</u> dd	X Delete			🔊 Dis <u>c</u> ard Changes
Application Location Administrator Account	Name	L	isten Port	SSL Listen Port	Enable SSL
Domain Mode and JDK	portal-server-temp	olate	7100	8100	
	portlet-server-tem	plate	7100	8100	
Database Configuration Type	wsm-cache-server	r-template	7100	8100	
Component Datasources	wsmpm-server-ter	mplate	7100	8100	
Node Manager Managed Servers Clusters Server Templates					
Dynamic Servers					
Assign Servers to Clusters					
Assign Servers to Clusters					

14). The Server templates screep appears.

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

Dynamic Servers									
 <u>Create Domain</u> <u>Templates</u> 								Dis <u>c</u> ar	d Changes
Application Location Administrator Account Domain Mode and JDK		Cluster Name	Server Name Prefix	Server Template	Dynamic Cluster Size	Machine Name Match Expression	Calculated Machine Names	Calculated Listen Ports	Dynamic Server Groups
Database Configuration Type		wcp_cluster_1	Disabled	Unspecifi•	Disabled	Disabled			Unspecifi
Component Datasources		wcp_cluster_2	Disabled	Unspecifi	Disabled	Disabled			Unspecifi
<u>JDBC Test</u> <u>Advanced Configuration</u> <u>Administration Server</u>	10000								
Advanced Configuration									
Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates									
Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Dynamic Servers									
Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Dynamic Servers Assign Servers to Clusters	50000								

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.

p	Fusion Middleware Configu	ration Wizard - Pag	je 16 of 23		×
Assign Servers to Clusters					
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 Ocherence Clusters Machines Virtual Targets Partitions	Select one or more servers in the left assign the server or servers to the cl		Clusters	Portal 2 Portlet	button (>) to
<u>H</u> elp	1		< <u>B</u> ack <u>N</u> ext >	Einish	Cancel

16). The Assign Servers to Clusters screen appears.

In the Clusters pane, select the cluster to which you want to assign the servers; in this case, *wcp_cluster_1*. In the Servers pane, assign *WC_Portal* to *wcp_cluster_1*, *then 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	2	🔊 Discard Changes
Application Location	Cluster Name	Cluster Listen Port
Administrator Account	defaultCoherenceCluster	7574
Domain Mode and JDK		
Database Configuration Type		
Component Datasources		
JDBC Test		
Advanced Configuration		
Administration Server	2	
Wode Manager		
Managed Servers		
<u>Clusters</u>		
Server Templates		
Dynamic Servers		
Assign Servers to Clusters		
Coherence Clusters		
<u>Machines</u>		
Virtual Targets		
Partitions		
Help		< <u>Back Next > Finish</u> Cancel

17). The Coherence Clusters screen appears.

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

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

	Fusion Middle	ware Configu	ration Wizard - Pa	age 18 of 24			×
Machines							
· · · · · · · · · · · · · · · · · · ·		Machine Melete me	Node Manager L localhost			Manager Li	5556
Help				< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

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

			Fusion Middleware Configuration Wizard - P	Pag	je 19 of 2	4		×
,	Assign Servers to Machines							
A	Create Domain		Servers		Machines			
	Templates				🔊 Machin			
T	Application Location					e_Machine_1 AdminServer		
T	And the second se				-	WC_Portal		
Ĩ	Administrator Account					WC_Portlet		
Ŷ	Domain Mode and JDK							
Ý	Database Configuration Type							
Ý	Component Datasources			7				
÷	JDBC Test							
	Advanced Configuration	1000						
Y	Administration Server							
ý	Node Manager							
ų	Managed Servers		3					
Ý	<u>Clusters</u>							
Ý	Server Templates							
Ý	Dynamic Servers							
ų	Assign Servers to Clusters							
ų	Coherence Clusters							
Ý	Machines							
0	Assign Servers to Machines		elect one or more servers in the left pane and one machin	ne in	n the right p	ane. Then use	the right arro	w button (>) to
Y	Virtual Targets	• a	ssign the server or servers to the machine.					
Ċ	Help				< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

19). The Assign Servers to Machines screen appears.

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

E.		Fusion Middleware	e Configuration V	Vizard - 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							
Database Configuration Type Component Datasources							
JDBC Test Advanced Configuration	1000						
Administration Server							
<u>Vode Manager</u> <u>Managed Servers</u>							
<u>Clusters</u> <u>Server Templates</u>							
Dynamic Servers Assign Servers to Clusters							
<u>Coherence Clusters</u>	H						
<u>Machines</u> <u>Assign Servers to Machines</u>							
Virtual Targets	•				Back Next >	Finish	Cancel
Help				<	Dack Next >	Emish	Cancel

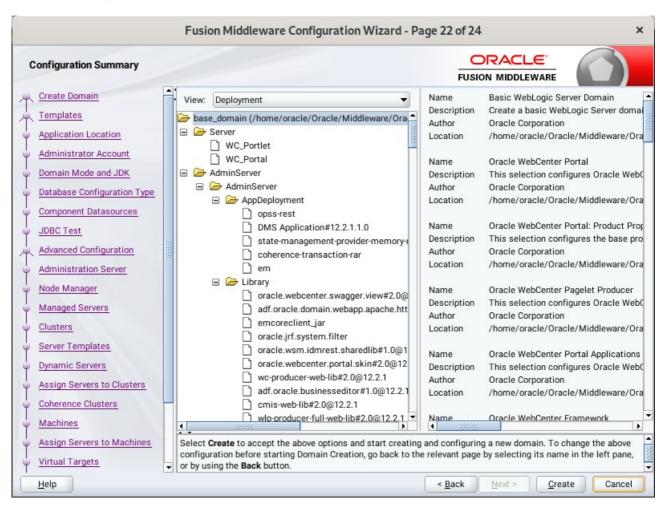
20). The Virtual Targets screep appears.

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

		Fusion Middleware Configuration Wizard - Page 2	21 of 24	1			×
Partitions						R	
Templates	•	Add X Delete			9	Dis <u>c</u> ard C	hanges
<u>Application Location</u> <u>Administrator Account</u>		Name					
Domain Mode and JDK Database Configuration Type							
<u>Component Datasources</u> <u>JDBC Test</u> Adveced Coefficienties	90 1						
Advanced Configuration Administration Server Node Manager	998 1						
Managed Servers Clusters							
Server Templates Dynamic Servers							
<u>Assign Servers to Clusters</u> <u>Coherence Clusters</u>							
<u>Machines</u> <u>Assign Servers to Machines</u> <u>Virtual Targets</u>		••					
Help	•		<u>B</u> ack	<u>N</u> ext >	<u>F</u> inis	h	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.



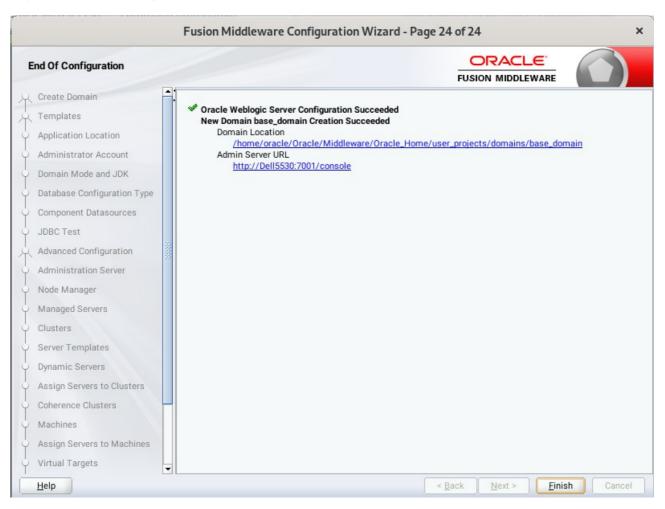
22). The Configuration Summary screen appears.

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

	Fusion Middleware Configur	ration Wizard - Pag	ge 23 of 24	L		×
Configuration Progress					_	
🕂 Create Domain						
A Templates		100%				
Application Location	Copy Unprocessed Artifacts					
Administrator Account	OPSS Processing					
	OWSM Processing Security Processing					
	Artifacts Generation					
	String Substitution					
	Post Processing					
Ú JDBC Test						
Advanced Configuration						
Administration Server						
V Node Manager						
Managed Servers						
Clusters						
Server Templates						
Dynamic Servers						
Assign Servers to Clusters						
Coherence Clusters						
4 Machines						
Assign Servers to Machines						
Virtual Targets						
Help		[< <u>B</u> ack	<u>N</u> ext >	<u> </u>	Cancel

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

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



24). The End of Configuration screen appears.

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

4. Verifying Oracle WebCenter Portal 12c Installation and Configuration

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

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

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

Interpretation of the second seco	in/bin Q = ×
oracle@Dell5530:common/comm × oracle@Dell5530:nter_Portal/1221	× oracle@Dell5530:ns/base_domain/ × -
oracle@Dell5530:/home/oracle/Oracle/Middleware/Oracle_Home/us hup ./startNodeManager.sh > nm.out&	ser_projects/domains/base_domain/bin>no
[1] 9945	
nohup: ignoring input and redirecting stderr to stdout	
<pre>oracle@Dell5530:/home/oracle/Oracle/Middleware/Oracle_Home/us</pre>	ser_projects/domains/base_domain/bin> mo
re nm.out NODEMGR HOME is already set to /home/oracle/Oracle/Middlewar	e/Oracle Home/user projects/domains/base
domain/nodemanager	
CLASSPATH=/home/ORACLE SW/Java/jdk1.8.0 221/lib/tools.jar:/ho	ome/oracle/Oracle/Middleware/Oracle Home
/wlserver/server/lib/weblogic.jar:/home/oracle/Oracle/Middle	ware/Oracle_Home/wlserver//oracle_comm
on/modules/thirdparty/ant-contrib-1.0b3.jar:/home/oracle/Orac	cle/Middleware/Oracle_Home/wlserver/modu
<pre>les/features/oracle.wls.common.nodemanager.jar::/home/oracle</pre>	
:/home/oracle/Oracle/Middleware/Oracle_Home/wlserver/module	es/features/oracle.wls.common.grizzly.ja
r - /bara/oppore_cw/taua/idb1_0_0_201/bia/iauaaawaa _waa22a	
+ /home/ORACLE_SW/Java/jdk1.8.0_221/bin/java -server -Xms32m 048 -Dcoherence.home=/home/oracle/Oracle/Middleware/Oracle_Ho	
me/oracle/Oracle/Middleware/Oracle_Home/wlserver/Doracle	
/Middleware/Oracle Home/user_projects/domains/base_domain/com	
on.components.home=/home/oracle/Oracle/Middleware/Oracle_Hom	e/oracle_common -Dopss.version=12.2.1.3
<pre>-Dweblogic.RootDirectory=/home/oracle/Oracle/Middleware/Orac</pre>	
n -Djava.system.class.loader=com.oracle.classloader.weblogic	
y=/home/oracle/Oracle/Middleware/Oracle_Home/wlserver/server	
<pre>ger.JavaHome=/home/ORACLE_SW/Java/jdk1.8.0_221 weblogic.Nodel <sep 14,="" 2020="" 9:38:41="" gmt+08:00="" pm=""> <info> <loading :<="" domains="" pre=""></loading></info></sep></pre>	
cle_Home/user_projects/domains/base_domain/nodemanager/nodema	
<pre><sep 14,="" 2020="" 9:38:41="" gmt+08:00="" pm=""> <info> <upgrade> <setting< pre=""></setting<></upgrade></info></sep></pre>	
.1.4.0>	· · · · · · · · · · · · · · · · · · ·
<sep 14,="" 2020="" 9:38:41="" gmt+08:00="" pm=""> <info> <upgrade> <saving< td=""><th>upgraded NodeManager properties to '/ho</th></saving<></upgrade></info></sep>	upgraded NodeManager properties to '/ho
<pre>me/oracle/Oracle/Middleware/Oracle_Home/user_projects/domain</pre>	s/base_domain/nodemanager/nodemanager.pr
operties'>	
<pre><sep 14,="" 2020="" 9:38:41="" gmt+08:00="" pm=""> <info> <loading :<="" domains="" pre=""></loading></info></sep></pre>	
<pre>cle_Home/user_projects/domains/base_domain/nodemanager/nodema <sep 14,="" 2020="" 9:38:41="" gmt+08:00="" pm=""> <info> <loading identity<="" pre=""></loading></info></sep></pre>	-
entity, Type=kss, PassPhraseUsed=true>	key score: FireName-Kas://system/demoid

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

oracle@Dell5530:ns/base_domain/bin	۹ ≡	×
oracle@Dell5530:com × oracle@Dell5530:nter × oracle@Dell5530:ns/ba × oracle@Dell5530:ns/	ba ×	-
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to RUNNING.>		

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

Server state changed to RUNNING.

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

Login Page:

	Sign in - Oracle F	Enterprise Manager - Mozilla Fire	fox		×
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Home Page:

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base_domain ()					° -	🖂 👻 Auto	Refresh O	ff
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2 Down	View View Create	Status						
Deployments	View View Create	Status	Cluster	suse_Machine_1	Running	ок	wn	
2 Down	View Create Name AdminServer(admin) WC_Portal	Status	Cluster wcp_cluster_1	suse_Machine_1 suse_Machine_1	Running Shutdown	OK Unkno	wn	

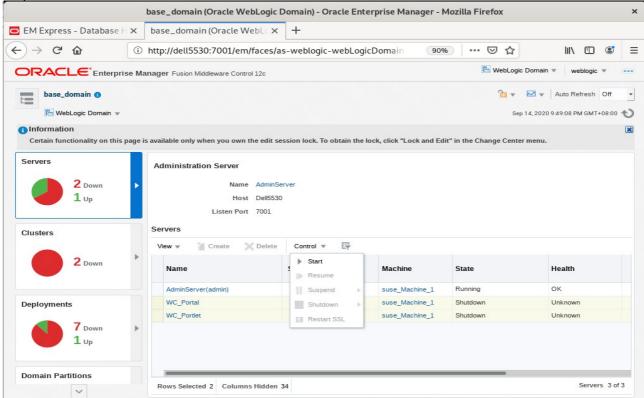
	base_domain (Oracle We	bLogic Domain)	- Oracle Enter	rprise Manager - I	Mozilla Firefox	
EM Express - Database H	× base_domain (Oracle We	eblo 🗙 🕂				
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	View Create Name AdminServer(admin) WC_Portal	Status	Cluster wcp_cluster_1	suse_Machine_1 suse_Machine_1	Running Shutdown	OK Unknown
2 Down Deployments 7 Down	View Create Name AdminServer(admin) WC_Portal	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.

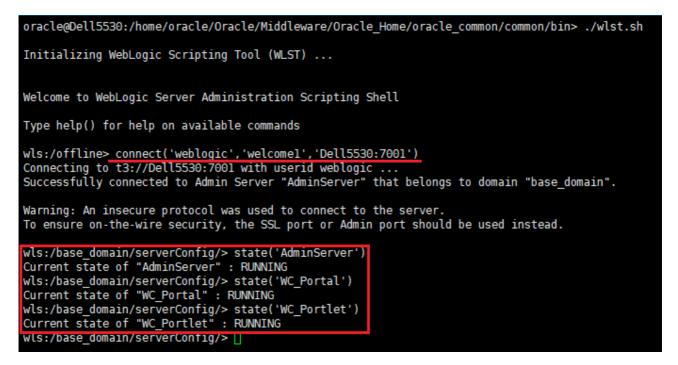
Select **Control** from the ribbon menu above the list of managed servers. Then select **Start** from the drop-down menu.



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

	base_domain (Oracle WebLogic	Domain)	- Oracle Ente	rprise Manager - I	Mozilla Firefox	
EM Express - Database \vdash X	base_domain (Oracle WebLox	: +				
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f) Information						6
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Clusters	Name Admins Host Dell553 Listen Port 7001 Servers View V Create Delete	30	N * Er			
2 Up	Name	Status	Cluster	Machine	State	Health
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		1	wcp_cluster_1	suse_Machine_1	Running	ок
Deployments	WC_Portal					
Deployments	WC_Portal WC_Portlet	+	wcp_cluster_2	suse_Machine_1	Running	ок

Checking WebCenter Servers state through Oracle WLST tool.



2). Access to Administration Server Console

Login Page as shown below:

	Oracle WebLogic Serve	er Administration Console - Mozilla	a Firefox					×
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← → ♂ ∅	http://dell5530:7001/console/l	ogin/LoginForm.jsp	90% 🗵	☆	111		٢	≡
	ogic Server Administration	Console 12 <i>c</i>	Log in to work with the Web Username: Password:	Welcome Logic Server domain weblogic		Login		
WebLogic Server Version: 12.2.1.4.0 Copyright (c) 1996,2019, Oracle and/or its affiliates . Oracle is a registered trademark of Oracle Corporatio	All rights reserved. An and/or its affiliates. Other names may be trademarks o	of their respective owners.						

Home Page:			
	Home Page - base_do	omain - WLS Console - Mozilla Firefox	×
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← → ♂ ☆ 0	http://dell5530:7001/console/conso	ole.portal?_nfpb=true&	
	Administration Console 12c		Q
Change Center	Home Log Out Preferences 🔤 Record He	lp 🔍	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 Information and Resources		
Lock & Edit Release Configuration	Helpful Tools Configure applications Configure GridLink for RAC Data Source Configure a Dynamic Cluster Recent Task Status	General Information Common Administration Task Descriptions Read the documentation Ask a question on My Oracle Support	
 ⊕-Environment →-Deployments ⊕-Services →-Security Realms ⊕-Interoperability 	Set your console preferences Oracle Enterprise Manager Domain Configurations		
Diagnostics	Domain	Resource Group Templates	Interoperability
	• Domain	Resource Group Templates	WTC Servers Jolt Connection Pools
	Domain Partitions	Resource Groups	
	Domain Partitions	Resource Groups	Diagnostics
How do I 📼	Partition Work Managers	Deployed Resources	Log Files Diagnostic Modules
 Search the configuration 	Environment	Deployments	Built-in Diagnostic Modules
Use the Change Center	Servers		Diagnostic Images
Record WLST scripts Change Console preferences	Clusters	Services	Request Performance Archives
Manage Console extensions	Server Templates Migratable Targets	Messaging	Context
Monitor servers	Coherence Clusters	 JMS Servers Store-and-Forward Agents 	• SNMP
	Coherence Clusters Machines	JMS Modules	Interceptors
System Status		 DMS Modules Path Services 	-
Health of Running Servers as of 10:01 PM	Virtual Targets	Bridges	Charts and Graphs
	Work Managers	Data Sources	Monitoring Dashboard
Failed (0)	Concurrent Templates	Persistent Stores	

Viewing the summary of servers:

	Summar	y of Servers - ba	se_domain	- WLS Console -	Mozilla Firefox					
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	dministration Console 12	;								õ
Change Center	🟦 Home Log Out Pr	eferences 🔤 Record H	Help	Q		Welcom	e, weblogic	Connected to	:base_do	mai
View changes and restarts	Home >Summary of Se	rvers								
Click the Lock & Edit button to modify, add or	Summary of Servers									
delete items in this domain.	Configuration Con	trol								
Release Configuration					and has its own configuratio	in.				
Domain Structure	This page summarize	es each server that has be	en configured in th	e current WebLogic Serv	er domain.					
base_domain	ζ۵									
Deployments	Customize this tabl	e								
Services Security Realms	Servers (Filtered - N	lore Columns Exist)								
-Interoperability		button in the Change Cent	ter to activate all the	e buttons on this name						
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Create Managed Servers Clone servers Delete Managed Servers Delete the Administration Server Start and stop servers View objects in the JNDI tree System Status	WC_Portal	Co	nfigured N	wcp_cluster_1	suse_Machine_1	RUNNING	🛩 ок 🛩 ок	8888 8889	us Next	
Create Managed Servers Clone servers Delete Managed Servers Delete the Administration Server Start and stop servers View objects in the JNDI tree	WC_Portal	Co	nfigured N	wcp_cluster_1	suse_Machine_1	RUNNING	🛩 ок 🛩 ок	8888 8889	us Next	

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3). Test Oracle WebCenter Portal Web Service

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

 EM Express - Database ⊨ x base_domain (Oracle WebL∈ x Summary of Servers - base_ x dell5530:7001/idaas/platforr x + 			Mozilla Firefox			×
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<ns0:application> - <ns0:doc title="Oracle Identity API Definition" xml:lang="en"> Oracle Identity Manager exposes a set of URI resources providing RESTful APIs for product functionality. This file contains the definition for a single API. Refer to the Developer's Guide for the complete list of supported APIs and more information about each. </ns0:doc> <ns0:doc ns1:generatedby="Jersey: 2.22.4 2016-11-30 13:33:53"></ns0:doc> <ns0:doc ns1:generatedby="Jersey: 2.22.4 2016-11-30 13:33:53"></ns0:doc> <ns0:doc ns2:hint="This is simplified WADL with user and core resources only. To get full WADL with extended resources use the query parameter detail.
Link: http://dell5530:7001/idaas/platform/application.wadl?detail=true"></ns0:doc> -<ns0:grammars> <ns0:include href="Configuration.xsd"></ns0:include> </ns0:grammars> -<ns0:resource path="/admin/v1"> -<ns0:resources base="http://dell5530:7001/idaas/platform/"> -<ns0:resource path="/admin/v1"> -<ns0:resource path="/admin/v1"> -<ns0:resource path="/admin/v1"> -<ns0:resource path="/admin/v1"> -<ns0:resource path="/admin/v1"> -<ns0:resource path="/admin/v1"> -<ns0:resource path="/admin/v1"> -<ns0:resource path="/admin/v1"> -<ns0:resource admin="" path='/admin/v1">
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Link: http://dell5530:7001/idaas/platform/application.wadl?detail=true"></ns0:doc> -<ns0:grammars> <ns0:include href="Configuration.xsd"></ns0:include> </ns0:grammars></ns0:resource></ns0:resource></ns0:resource></ns0:resource></ns0:resource></ns0:resource></ns0:resource></ns0:resource></ns0:resource></ns0:resource></ns0:resource></ns0:resource></ns0:resource></ns0:resource></ns0:resource></ns0:resource></ns0:resource></ns0:resource></ns0:resource></ns0:resource></ns0:resource></ns0:resource></ns0:resources> -<ns0:resources base="http://dell5530:7001/idaas/platform/"> -<ns0:resource path="'_admin/v1"> -<ns0:resource path="'_admin/v1"> -<ns0:resource path="'_admin/v1"> -<ns0:resource _admin="" path="" v1"=""> -<ns0:resource _admin="" path="" v1''=""> -<ns0:doc> Plaform Security and Web Service Resources. Key store management for JKS format - Upload server signing/encrypting certificate to domain OWSM keystore (JKS, KSS) Upload trusted CA certificates by alias or entire domain OWSM keystore. Credential Store Management - Create an</ns0:doc></ns0:resource></ns0:resource></ns0:resource></ns0:resource></ns0:resource></ns0:resources></ns0:resource></ns0:application>	his XML file does not appear	to have any style information associ	ated with it. The document tree is sh	own below.		
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r=" jersey:="">simplified WADL with user and core r idaas/platform/application.wadl?deta iguration.xsd"/> b://dell5530:7001/idaas/platform/"> dmin/v1"> iddas/platform/application.wadl?deta iguration.xsd"/> b://dell5530:7001/idaas/platform/"> dmin/v1"> iddusb Service Resources. Key store (S, KSS) Upload trusted CA certificat store (JKS, KSS) Search certificates with user, map, key, credential Updo b, key information Search entire dor</ns0:resource></ns0:include></ns0:grammars></ns0:doc>	pported APIs and more information a "/> esources only. To get full WADL with il=true"/> management for JKS format - Uploa ite chain to domain OWSM keystore s by alias or entire domain OWSM key late an existing entry in domain CSF nain CSF for maps and keys. Trust C	about each. extended resources use the que d server signing/encrypting cert (JKS,KSS) Download trusted C ystore. Credential Store Manage with new credential Delete an configuration Management - Uplo	ificate to domain A certificates frr ment - Create a entry from doma	etail. n om n ain of	
	 - <ns0:resource path="/</td><td>credential"></ns0:resource>					

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

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Copyright © 2013, 201	7, Oracle. All rights re	served.										

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WSRP Produce						
Data Source Name: java:comp/env/jdbc Using défault value. To change it, specif Use Java Object Cache: true Value obtained from environment entry; Container Version	java.comp/env/oracle/portal/wsrp/server/persistentStore					

c. Application: wsrp-tools (URL: <u>http://host:8889/wsrp-tools</u>)

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d. Application: WebC	Center Portal (URL: <u>htt</u>	tp://host:8888/webcente	<u>r/portal)</u>	
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		SuSE Linux Enterprise Server 15 SP2	
		Description	
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		Keywords SuSE,Oracle	
		portal	
		URL	
		SuSELinuxEnterpriseServer15SP2	
		http://dell5530:8888/webcenter/portal/SuSELinuxEnterpriseServer15SP2	
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		Save						
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	Portal Details							
•,	Name	SuSELinuxEnterpriseServer15SP2 Rename						
	Portal URL	http://dell5530:8888/webcenter/portal/SuSELinuxEnterpriseServer15SP2						
	Internal ID	s05dfa259_63d1_464c_bb0d_00181530be34						
	Members	1						
	Last Activity	1 minute ago						
	Created	1 minute ago by weblogic						

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

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↔ → ♂ ŵ	i http://dell5530	:8888/collector/analytics	-collector-diagnostics.jsp	⊌ ☆	III\ 🗊 🔮	Ξ
Analytics Collect	tor					
Collector Information	_	_	_	_	_	
€) Refresh						
Configuration	Value					
Collector Default Port	31314		_			
Collector Max Port	31314		—			
Collector Server Name	localhost					
Broadcast Type	Multicast					
Cluster Enabled	0					
Cluster Name	0					
Partitioning Enabled	0					
Time Dimension for this year	1					
Space Dimension Exists	✓					

End of Oracle WebCenter Portal.

Oracle SOA Suite

1. Installing Oracle SOA Suite 12c

1-1. Prerequisites:

Installation of Oracle SOA Suite requires:

- 1). Oracle Database 12cR2 (12.2.0.1.0) installed.
- 2). Oracle JDK 1.8.0_221 and later installed.

1-2. Log in to the target system (SLES 15 SP2 64-bit OS) as a non-admin user. Download the Oracle SOA Suite 12c (12.2.1.4.0) Quick Start installer zip file from https://www.oracle.com/downloads/#category-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 ('V983385-01_1of2.zip') files and launch the installation program by running '**java -jar fmw_12.2.1.4.0_soa_quickstart.jar** '

For the actual installation, follow the steps below:

1). Installation Inventory Setup.

Oracle F	usion Middleware 12c SOA	Quick Start Installation	×
Installation Inven	tory Setup		
Central Inventory Directory Enter the Central inventory of inventory directory if it does	directory for all your oracle installation not exist.	ons.The installer will create a new c	entral
Inventory Directory:	/home/oracle/oralnventory Enter the full path for the directory		Browse
Operating System Group :	oinstall Specify a group with write permise	sion to the inventory directory	
	le (createCentralInventory.sh) in the inv o identity the location of the central i		
•	such as patching and upgrade.		-
Help		ОК	Cancel

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

2). Welcome page.

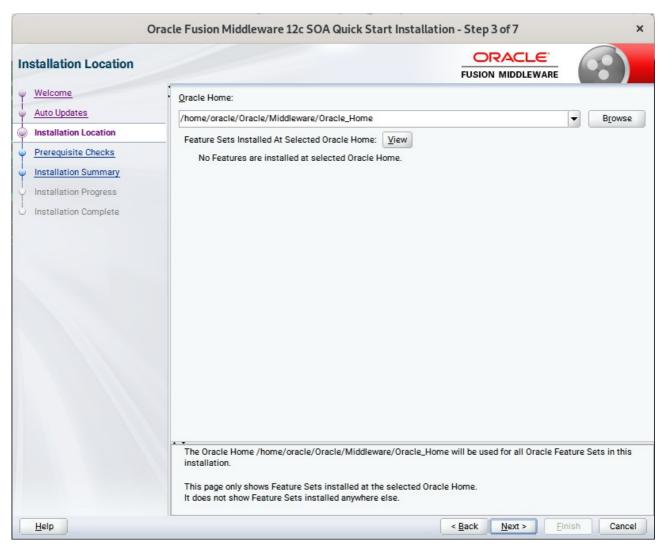
	Ora	acle Fusion Middleware 12c SOA Quick Start Installation - Step 1 of 7 ×
w	elcome	
Q	Welcome	1
0	Auto Updates	Welcome to the Oracle Fusion Middleware 12c (12.2.1.4.0) SOA Suite Quick Start for Developers Installer.
-	Installation Location	Use this installer to create a new Oracle home or to extend an existing Oracle Home that contains everything you need to evaluate or develop applications with the Oracle SOA Suite software.
Ý	Prerequisite Checks	
÷	Installation Summary	For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware documentation library.
4	Installation Progress	Context-sensitive online help is available from the Help button.
5	Installation Complete	
		Copyright © 1996, 2019, Oracle and/or its affiliates. All rights reserved.

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

Orac	cle Fusion Middleware 12c SOA Quick Start In	stallation - 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 directory Location: Search My Oracle Support for Updates Username: Password: Proxy Settings Search		Browse
Help		< Back Next >	inish Cancel

3). The Auto Updates page appears.

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



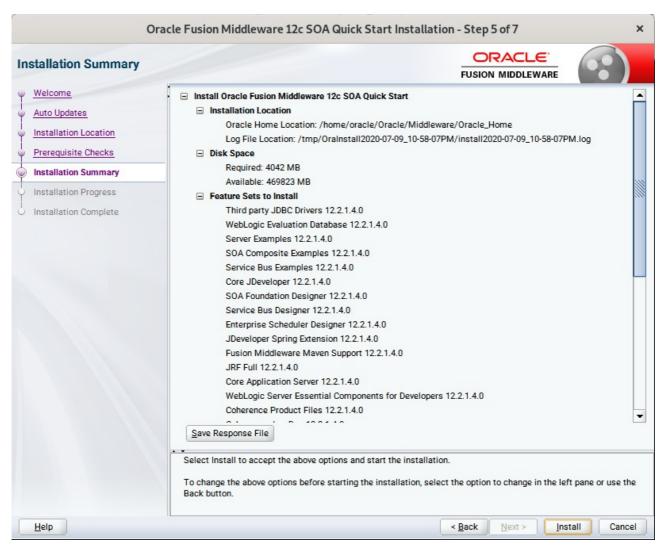
4). The Installation Location page appears.

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

Oracle	e Fusio	n Middleware 12c SOA Quick Start Installation - Step 4 of 7	×
Prerequisite Checks			
Welcome			
Auto Updates		100%	
Installation Location	v	Checking operating system certification	
Prerequisite Checks	1	Checking Java version used to launch the installer	
Installation Summary			
Installation Progress			
Installation Complete			
	Stop	Rerun Skip ✓ View Successful Tasks	View Log
		cking operating system certification pected result: One of oracle-6, oracle-7, redhat-7, redhat-6, SuSE-11, SuSE-12, SuSE-15	
	A	ctual Result: SuSE-15-SP2	
		neck complete. The overall result of this check is: Passed cking Java version used to launch the installer	
		pected result: 1.8.0_191 stual Result: 1.8.0_221	
		neck complete. The overall result of this check is: Passed	
Help		< Back Next > Fini	sh Cancel

5). The Prerequisites Checks page appears.

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



6). The Installation Summary page appears.

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

Oracl	e Fusio	n Middleware 12c SOA Quick Start Installation - Step 6 of 7 ×
Installation Progress		
Velcome		100%
Installation Location Prerequisite Checks Installation Summary Installation Progress Installation Complete	> > > > >	Prepare Copy Generating Libraries Performing Substitutions Linking
	v v	Setup Saving the inventory Post install scripts
	View	Messages View Successful Tasks View Log Hardware and Software Engineered to Work Together
Help		< Back Next > Einish 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.

 Welcome Auto Updates Installation Location Prerequisite Checks Installation Summary Installation Progress Installation Complete Feature Sets Installed Successfully Third party JDBC Drivers 12.2.1.4.0 WebLogic Evaluation Database 12.2.1.4.0 SoA Composite Examples 12.2.1.4.0 SoA Composite Examples 12.2.1.4.0 SoA Foundation Designer 12.2.1.4.0 SoA Foundation Designer 12.2.1.4.0 SoA Foundation Designer 12.2.1.4.0 Service Bus Designer 12.2.1.4.0 SoA Foundation Designer 12.2.1.4.0 Service Bus Designer 12.2.1.4.0 	10-58-07PM.log	
Core Application Server 12.2.1.4.0 WebLogic Server Essential Components for Developers 12.2.1.4.0 Coherence Product Files 12.2.1.4.0 Coherence JavaDoc 12.2.1.4.0 Web 2.0 HTTP Pub-Sub Server 12.2.1.4.0 Next Step(s): Start JDeveloper Oracle Fusion Middleware 12c SOA Quick Start installation completed successfully		•

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	
pository Creation Utility	,			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 r	nanage ti
Database Connection Details	Select existing prefix:			
Select Components				
•	Oreate new prefix:	DEV		
Schema Passwords		Alpha numeric only. Canr	ot start with a number. No special chara	cters.
Map Tablespaces			1	
Summary	Component		Schema Owner	
	□ ✓ Oracle AS Repository Components			
Completion Summary	■ AS Common Sche			
		astructure Services *	DEV_STB	
		m Security Services	DEV_OPSS	
	Oracle Enterpri		DEV_ESS	
	User Messagin		DEV_UMS	
	Audit Services		DEV_IAU DEV_IAU_APPEND	
	Audit Services		DEV_IAU_VIEWER	
	Metadata Services		DEV_IAD_VIEWER	
	Weblogic Servi		DEV_WLS	
	■ SOA Suite	luca	DEV_WES	
	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 Middleware Configuration Wizard - Page 1 of 8 ×						
Configuration Type					C	
Create Domain						
Administrator Account						
Domain Mode and JDK						
Advanced Configuration						
<u>Configuration Summary</u>	What do you want t	o do?				
Configuration Progress	Create a new ex	panded domain				
C End Of Configuration	Create a new co	ompact <u>d</u> omain				
	O <u>U</u> pdate an exist	ing domain				
	Domain Location:	wacle/Oracle/Middleware/O	racle_Home/user_proje	cts/domains/base_do	main B	<u>r</u> owse
		n containing only a single ser onal Managed Servers and cl		Server). This domain f	ype cannot t	be scaled
Help			< <u>B</u> ack	<u>N</u> ext > <u>F</u> ir	iish 🚺 🚺	Cancel

Click Next to continue.

2). The Templates screen appears.

	Fusion Middleware Configuration Wizard - Page 2 of 11	×
Templates)
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Create Domain Using Product Templates: Filter Templates: Type here Include all gelected templates Include all previously applied templates Available Templates Basic WebLogic Server Domain [wlserver] * Insight [soa] Oracle B2B Reference Configuration [soa] Oracle B2A Suite Reference Configuration [soa] Oracle B2B Client [soa] Oracle B2B Client [soa] Oracle B2B Client [soa] Oracle Enterprise Manager Plugin for ESS [em] Oracle Enterprise Manager [em] Oracle API Manager [sob] Voracle Service Bus Reference Configuration [sob] Create Domain Using Custom Template: Template location:	vse
Help	< <u>Back</u> <u>Next</u> <u>Finish</u> Car	ncel

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

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

Click **Next** to continue.

- Fusion Middleware Configuration Wizard Page 3 of 12 × ORACLE **High Availability Options** FUSION MIDDLEWARE Create Domain Templates **High Availability Options** Application Location Enable Automatic Service Migration Administrator Account O Database Leasing Domain Mode and JDK O Consensus Leasing Database Configuration Type Keystore JTA Transaction Log Persistence Advanced Configuration O Default Persistent Store Configuration Summary O JDBC TLog Store **Configuration Progress** JMS Server Persistence End Of Configuration JMS File Store ○ JMS JDBC Store 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. < Back Finish Cancel <u>H</u>elp Next >
- 3). The High Availability Options screen appears.

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

	Fusion Middlew	vare Configuration Wizard - I	Page 4 of 12	2		×
Application Location						
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/				a <u>Br</u> owse
Help			< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

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

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

·····	Fusion Middle	ware 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 at least one aracter.
Help		< <u>Back</u> <u>Next</u> > <u>Finish</u> 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 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 Production Require the entry of a username and password JDK Oracle HotSpot 1.8.0_221 /home/ORACLE_SW/J Other JDK Location: 	, and do not poll for applications to deploy.	Browse
Help		< Back Next > Finish	Cancel

6). The Domain Mode and JDK screen appears.

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

7).	The	Database	Configuration	Туре	screen appears.
-----	-----	----------	---------------	------	-----------------

	Fusion Middleware Configuration Wizard - Page 7 of 14
Database Configuration Type	
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Keystore Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Specify AutoConfiguration Options Using: <u>B</u>CU Data <u>E</u>mbedded Database (JavaDB) <u>M</u>anual Configuration Enter the database connection details using the schema credentials corresponding to Common Infrastructure Services component in the Repository Creation Utility. The Wizard uses this connection to automatically configure the datasources required for components in this domain. Vendor: Oracle Driver: *Oracle's Driver (Thin) for Service connections; Versions: • Ocnnection Parameters Connection <u>U</u>RL String Host Name: Dell5530 DBMS/Service: suse Port: 1521 Schema Owner: DEV_STB Schema Password: <u>Get RCU Configuration</u> <u>Cancel</u> Connection Result Log Connection the database serverOK Binding local schema components with retrieved dataOK Ender Mathematical Schema Components with retrieved dataOK
Help	Successfully Done.

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.

		F	usion Middleware Co	onfiguration	Wizard - Pag	je 8 of 14		;	×
J	DBC Component Schema								
	Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Keystore	Hose the sector of the sect	Idor: Connection Parameters St Name: MS/Service: Sema Owner: Sema Owner: Convert to Conv	Connection	Port: Schema Passwor mas: Convert to RAC m	ulti data sourc	e O Don't co	nvert	
*	Advanced Configuration		Component Schema	DBMS/Service	Host Name	Port	Schema Owner	Schema Password	d
4	Configuration Summary	Ы	SOA EDN (XA)	SUSE	Dell5530	1521	DEV_SOAINFR4		-
5	Configuration Progress		SOA EDN (Local)	SUSE	Dell5530	1521	DEV_SOAINFR4		1
5	End Of Configuration		ESS Schema	SUSE	Dell5530	1521	DEV_ESS		0000
			LocalSvcTbl Schema	SUSE	Dell5530	1521	DEV_STB		
			User Messaging Service	SUSE	Dell5530	1521	DEV_UMS		Н
			SOA (XA)	SUSE	Dell5530	1521	DEV_SOAINFR4		
			SOA (Local)	SUSE	Dell5530	1521	DEV_SOAINFR#		
			WLS Schema	SUSE	Dell5530	1521	DEV_WLS_RUN		
	Help					< <u>B</u> ack	ext >	ish Cancel	

8). The JDBC Component Schema screen appears.

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

	Fu	ision M	Aiddleware Configuration Wizard - P	age 9 of 14	×			
JDBC Component Schema Test								
A Create Domain		Status	Component Schema	JDBC Connection URL				
Templates		1	SOA EDN (XA)	jdbc:oracle:thin:@//Dell5530:1521/SUSE	1			
High Availability Options		1	SOA EDN (Local)	jdbc:oracle:thin:@//Dell5530:1521/SUSE				
	-	1	ESS Schema	jdbc:oracle:thin:@//Dell5530:1521/SUSE	11			
<u>Application Location</u>		1	LocalSvcTbl Schema	jdbc:oracle:thin:@//Dell5530:1521/SUSE	2000			
Administrator Account		1	User Messaging Service	jdbc:oracle:thin:@//Dell5530:1521/SUSE				
Domain Mode and JDK	-	1	SOA (XA)	jdbc:oracle:thin:@//Dell5530:1521/SUSE				
Database Configuration Type		1	SOA (Local)	jdbc:oracle:thin:@//Dell5530:1521/SUSE	Н			
Component Datasources		1	WLS Schema	jdbc:oracle:thin:@//Dell5530:1521/SUSE				
		1	ESS MDS Schema	jdbc:oracle:thin:@//Dell5530:1521/SUSE				
JDBC Test		1	OWSM MDS Schema	jdbc:oracle:thin:@//Dell5530:1521/SUSE	1.			
Keystore Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Com Drive URL: User Pass SQL CFG CFG	- ponent er=oracl =jdbc:or =DEV_S sword=* Test=IS FWK-642 FWK-642	Cancel Testing Result Log Schema=SOA EDN (XA) e.jdbc.xa.client.OracleXADataSource acle:thin:@//Dell5530:1521/SUSE OAINFRA ******** *VALID 213: Test Successful! 213: JDBC connection test was successful. ********					
Help				< Back Next > Einish Cancel	כ			

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 Middle	eware Configuration Wiza	ord - Page 10 of 14	×
Keystore				
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 Progress End Of Configuration	Store Key Name	ums/apns Private Key	Password	Discard Changes
Help			< <u>B</u> ack N	ext >Einish Cancel

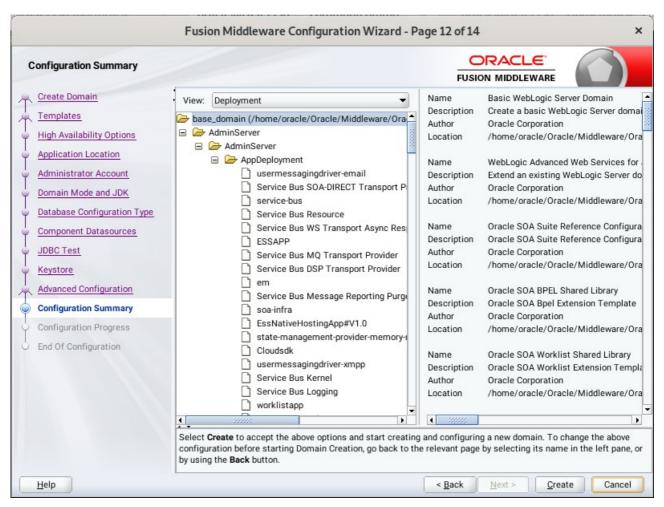
10). The **Keystore** screen appears.

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

	Fusion Middleware Configuration Wizard - Page 11 of 14	×
Advanced Configuration		
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Keystore Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Administration Server Modify Settings Node Manager Configure Node Manager Topology 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>B</u> ack <u>N</u> ext > <u>F</u> inish	Cancel

11). The Advanced Configuration screen appears.

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



12). The Configuration Summary screen appears.

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

·	Fu	ision Middleware Configura	tion Wizard - Pa	ge 13 of 14	Ļ		×
Configuration Progress							
Create Domain							
A Templates			100%				
High Availability Options	1	Copy Unprocessed Artifacts					
Application Location	1	OPSS Processing					
Administrator Account	1	OWSM Processing Security Processing					
Domain Mode and JDK	1	Artifacts Generation					
	1	String Substitution					
O Database Configuration Type	1	Post Processing					
Component Datasources							
U JDBC Test							
4 Keystore							
Advanced Configuration							
Configuration Summary							
Configuration Progress							
 End Of Configuration 	1						
Help				< Back	<u>N</u> ext >	Einish	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.

Fusion Middleware Configuration Wizard - Page 14 of 14 × ORACLE" **End Of Configuration** FUSION MIDDLEWARE Create Domain Oracle Weblogic Server Configuration Succeeded Templates New Domain base_domain Creation Succeeded Domain Location High Availability Options /home/oracle/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain Application Location Admin Server URL http://Dell5530:7001/console Administrator Account Domain Mode and JDK Database Configuration Type **Component Datasources** JDBC Test Keystore Advanced Configuration Configuration Summary **Configuration Progress End Of Configuration** < Back <u>F</u>inish Cancel <u>H</u>elp Next >

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.

Ð	oracle@Dell5530:ns/base_domain/bin	Q, =	×
	oracle@Dell5530:/opt/oracle × oracle@Dell5530:common/commo × oracle@Dell5530:ns/b	ase_domain/b ×	•
<jul :<br="">ses: :</jul>	ogic.mdbs.suspendConnectionOnStart is ignored, because it is not supported by JCA-Based Message-Dr 10, 2020 12:32:00,673 AM GMT+08:00> <warning> <server> <bea-002611> <the "localhost",="" hostname="" map<br="">127.0.0.1, 0:0:0:0:0:0:0:1.></the></bea-002611></server></warning>	os to multiple IP a	
	10, 2020 12:32:00,673 AM GMT+08:00> <notice> <server> <bea-002613> <channel "default[4]"="" is="" li<br="" now="">r protocols iiop, t3, ldap, snmp, http.></channel></bea-002613></server></notice>	stening on 127.0.0	.1:70
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	10, 2020 12:32:01,076 AM GMT+08:00> <notice> <server> <bea-002613> <channel "default[3]"="" is="" li<br="" now="">o:7001 for protocols iiop, t3, ldap, snmp, http.></channel></bea-002613></server></notice>	stening on 0:0:0:0	:0:0:
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rver	"AdminServer" for domain "base_domain" running in development mode.>		
3:43c	10, 2020 12:32:01,326 AM GMT+08:00> <notice> <server> <bea-002613> <channel "default[2]"="" is="" li<br="" now="">0:e6b9:7aff:fe86:7164%eth0:7001 for protocols iiop, t3, ldap, snmp, http.></channel></bea-002613></server></notice>		
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	found 0 SOA composites to deploy in group 0 . Using 5 threads for composite load. composite count LazyLoading enabled. CompositeLazyDeployment disabled.	from dcManager : 0	Comp
deploy	ying 0 composites took 0 ms >deploying 0 composites took 11 ms		
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	usion apps env latform is running and accepting requests. Start up took 85207 ms, partition=DOMAIN		

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

Server state changed to RUNNING.

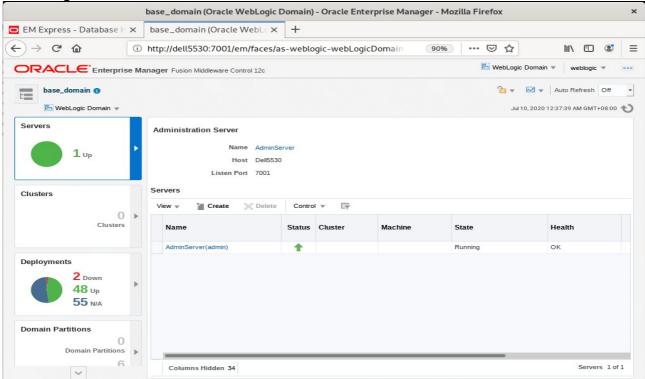
4-3. Checking Oracle SOA Suite 12c Product URLs.

1). Access to Enterprise Manager Console.

Login Page:

Sign in - Oracle Enterprise Manager - Mozilla Firefox										
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Home Page:



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New Tasks							
Search Other User's Views							
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Copyright © 1997, 2019, Oracle and/or its affil	lates. All rights r	eserved.					

• SNMP

Interceptors

Charts and Graphs • Monitoring Dashboard 🖗

2). Access to Administration Server Console

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WebLogic Server Version: 12.2.1.4.0										
Copyright (c) 1996,2019, Oracle and/or its aff Oracle is a registered trademark of Oracle Co Home Page:		rights reserved. and/or its affiliates. Other names may be trademarks of their	respective owners.							
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View changes and restarts Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain. Domain Structure base_domain Delta Domain Partitions Delta Domai		Home Page Information and Resources Helpful Tools								
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 Overloaded (0)

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System Status

System Status Health of Running Servers as of 12:45 AM

Migratable Targ
 Coherence Clusters
 Machines
 Virtual Hosts
 Virtual Targets
 Work Managers
 Concurrent Templates

 Data Sources Persistent Stores

Services

Messaging

JMS Servers

Store-and-Forward Agents

JMS Modules

Path Services

Bridges

viewing the summa	ary		30										
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Domain Partitions Environment		Т	'his pa	ge summarizes each serv	er that has bee	en configured in the cur	rent WebLogic Ser	rver domain.					11
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Services Security Realms													11
Interoperability			Custo	mize this table									
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Delete the Administration Server Start and stop servers													- 1
View objects in the JNDI tree													- 1
													- 1
System Status													- 1
Health of Running Servers as of 12:46 AM													- 1
Failed (0)													
Critical (0)													
Overloaded (0)													
Warping (0)	1												

Viewing the summary of servers:

3). Connecting JDeveloper to the Compact Domain.

Launch Oracle JDeveloper with the appropriate command.

Ex: ----cd \$ORACLE_HOME/jdeveloper/jdev/bin ./jdev

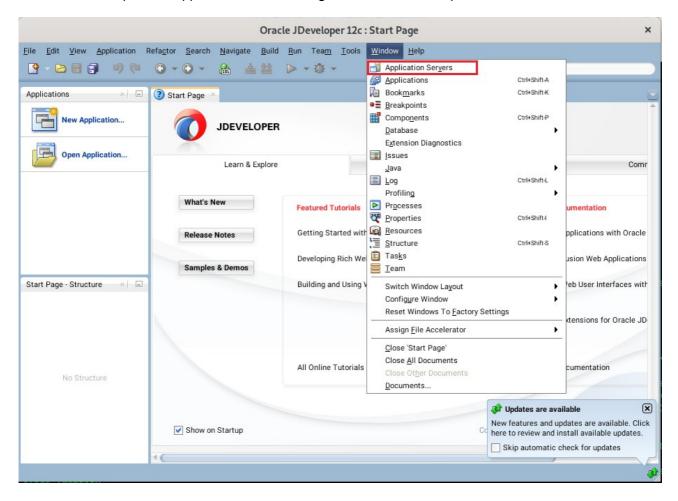
Follow these steps:

a1). Select Role.

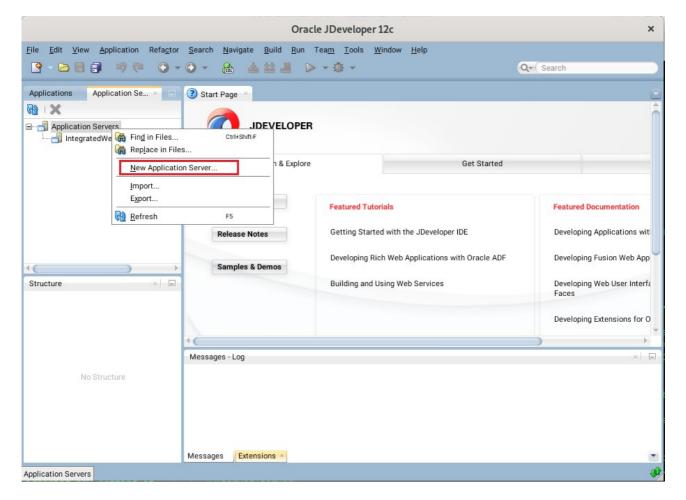
Select the role that matches your requirements. You can also change oles using the Roles page in preferences.	è
<u>}ole:</u>	
Studio Developer (All Features) Includes all features.	Î
Customization Developer Configures the product for customizing metadata.	
Database Developer Includes only features for core database development.	0000
 Java Developer Includes only features for core Java development. 	
 Java EE Developer Includes only features for core Java EE development. 	-
Always prompt for role selection on startup	

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

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

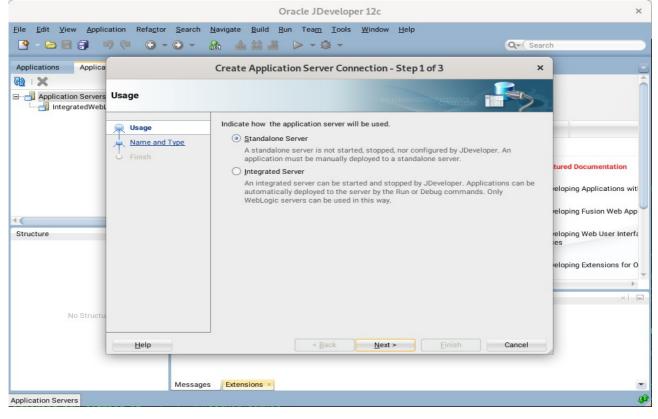


a3). Right-click on **Application Servers** in the Application Server Navigator. Select **New Application Server** from the drop-down menu to launch the **Create Application Server Connection** wizard.

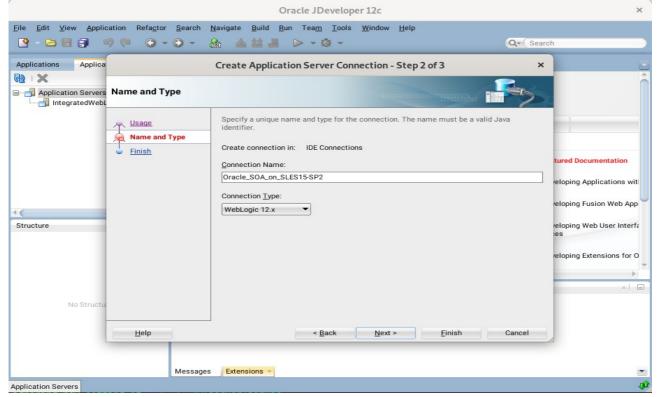


a4). Creating Application Server Connection steps as shown below.

Usage screen.



Name and Type screen.



		Oracle JDeveloper 12c	×
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Application Servers			Î
	Name and Type	Specify a username and password to authenticate the connection.	
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Authentication screen.

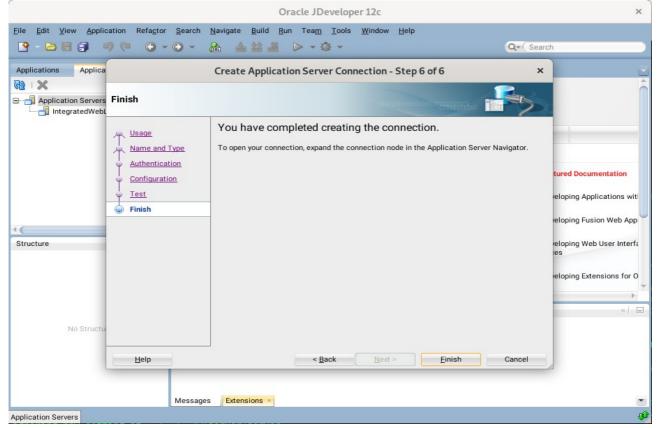
Configuration screen.

		Oracle JDeveloper 12c	×
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Structure	Authentication Authentication Configuration Test Finish	Domain of the target will be verified WebLogic Hostname (Administration Server): localhost Port: SSL Port: [7001 [7002 Always use SSL WebLogic Domain: base_domain	tured Documentation reloping Applications with reloping Fusion Web App reloping Web User Interfa- res
No Structu	Help	< <u>Back Next > Einish Cancel</u> s Extensions *	-
Application Servers			ý.

Test screen.

Applications Applica Application Servers Application Servers IntegratedWebt Usage Name and Type Authentication Configuration Test Inish	Create Application Server Connection - Step 5 of 6 Click Test Connection to determine if the information specified successfully establishes a connection with the application server. Iest Connection Status: Testing JSR-160 Runtime Success Testing JSR-160 DemainRuntime Success Testing JSR-180 DemainRuntime Success Testing JSR-88-LOCAL Success Testing JSR-88-DEP-MGR Cuccess Testing JSR-88-DEP-MGR Cuccess Testing JSR-88-DEP-MGR Cuccess Testing JSR-88-DEP-MGR Success Testing JSR-88-DEP-MGR Success Testing JSR-88-DEP-MGR Cuccess Testing SR-88-DEP-MGR Cucces Testing SR-88-DEP-MGR Cucces	tured Documentation reloping Applications with reloping Fusion Web App reloping Web User Interfa- res reloping Extensions for O
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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	e JDeveloper 12c	×
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Oracle_SOA_on_SLES15-SP2			ø

Log into your ac	ministrative cons	ole.							
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domain.	Helpful Tools	General Information			
Domain Structure base_domain B-Domain Partitions D-Environment D-Deployments Services D-Services D-Services 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 Domain Domain	Common Administration Task Descrip Read the documentation Ask a question on My Oracle Support Resource Group Templates Resource Group Templates	Interoperability • WTC Server: • Jolt Connect		_
	Domain Partitions	Resource Groups			11
How do I • Search the configuration	Domain Partitions Partition Work Managers	Resource Groups Deployed Resources	Diagnostics Log Files Diagnostic N	fodules	
Use the Change Center Record WLST scripts	Environment	Deployments	Built-in Diag	nostic Modules	11
Change Console preferences Manage Console extensions	Servers Clusters Server Templates	Services	Diagnostic li Request Per Archives		
Monitor servers	 Migratable Targets 	Messaging JMS Servers	Context SNMP		
System Status	Coherence Clusters Machines	 Store-and-Forward Agents JMS Modules 	Interceptors		11

End of Oracle SOA Suite.

Cracle Access Manager

1. Installing Oracle Identity and Access Management 12cPS4 software

1-1. Prerequisites:

Installation of Oracle Identity and Access management requires:

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

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

SQL> show parameter open	_cursors;		
NAME		TYPE	VALUE
open_cursors SQL> alter system set ope		integer 1600 scope=sp	
System altered.			
SQL> shutdown immediate; Database closed. Database dismounted. ORACLE instance shut down SQL> startup ORACLE instance started.	n.		
Variable Size Database Buffers	12169752 2013269480 7851737088 21381120	bytes bytes bytes	
NAME		TYPE	VALUE
open_cursors SQL> []		integer	1600

2). Oracle jdk1.8.0_221 and later installed.

1-2. Log in to the target system (SLES 15 SP2 64-bit OS) as a non-admin user. Download the Oracle Identity and Access Management 12cPS4 (12.2.1.4.0) generic installer .zip file from https://www.oracle.com/downloads/#category-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_12.2.1.4.0_idmqs_Disk1_1of2.zip" and "fmw_12.2.1.4.0_idmqs_Disk1_2of2.zip") files and launch the installation program by running '**fmw_12.2.1.4.0_idmquickstart.jar**'

For the actual installation, follow the steps below:

1). Installation Inventory Setup.

Installation Inven	tory Setup		
Central Inventory Directory Enter the Central inventory of inventory directory if it does	· ·	stallations.The installer will creat	te a new central
Inventory Directory:	/home/oracle/oralnventory Enter the full path for the d		Browse
Operating System Group :	oinstall	permission to the inventory direct	tory
Central Inventory Pointer Fi Click OK to create a script		the inventory directory. Run this	script to create a
pointer file, which is used t		entral inventory for future install	

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

2). Welcome page appears.

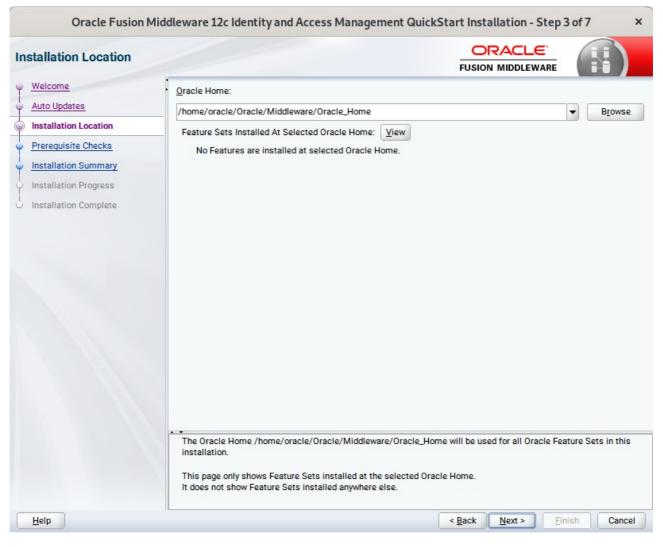
Oracle Fusion Mide	dleware 12c Identity and Access Management QuickStart Installation - Step 1 of 7 ×
Welcome	
Welcome Auto Updates Installation Location Prerequisite Checks Installation Summary Installation Progress Installation Complete	Welcome to the Oracle Fusion Middleware 12c (12.2.1.4.0) IDM Suite Quick Start Installer. 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. For more information, see <u>Install, Patch, and Upgrade</u> in the Oracle Fusion Middleware documentation library. Context-sensitive online help is available from the <u>H</u> elp button.
	Copyright (c) 2010, 2019, Oracle and/or its affiliates. All rights reserved.

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

Oracle Fusion Mic	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 directory Location: Search My Oracle Support for Updates Username: Proxy Settings Search	FUSION MIDDLEWARE Browse Test Connection
Help		< Back Next > Finish Cancel

3). The Auto Updates page appears.

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



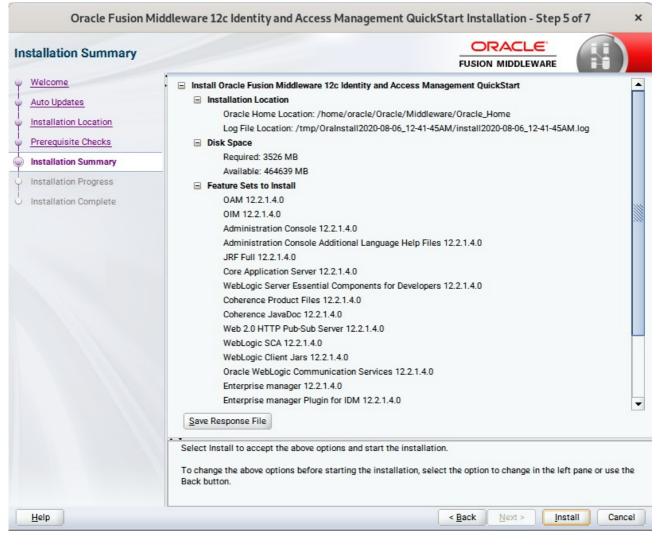
4). The Installation Location page appears.

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

Oracle Fusion Mid	dleware	12c Identity and Access Management QuickStart Installation - Step 4	l of 7	×
Prerequisite Checks				
Welcome				
Auto Updates		100%		
Installation Location	v	Checking operating system certification		
Prerequisite Checks	v	Checking Java version used to launch the installer		
Installation Summary				
↓ ↓ Installation Progress				
U Installation Complete				
	Stop	Rerun Skip View Successful Tasks	View <u>Log</u>	-
	Ex Cr Ex Ex Ac	ecking operating system certification opected result: One of oracle-6, oracle-7, redhat-7, redhat-6, SuSE-11, SuSE-12, SuSE-15 ctual Result: SuSE-15-SP2 neck complete. The overall result of this check is: Passed toking Java version used to launch the installer opected result: 1.8.0_191 ctual Result: 1.8.0_221 neck complete. The overall result of this check is: Passed		
Help		< <u>Back</u>	ish Cano	el

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

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



6). The Installation Summary page appears.

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

Oracle Fusion Middlev	vare	2c Identity and Access Management Quick	Start Installation - Step 6	of7 ×
Installation Progress				
Y Welcome				
Auto Updates		100%		
Installation Location	~	Prepare		
Prerequisite Checks	~	Сору		
Unstallation Summary	~	Generating Libraries		
Installation Progress	~	Performing String Substitutions		
Linstallation Complete	~	Linking		
	~	Setup		
	~	Saving the inventory		
	~	Post install scripts		
		1		
	View	Messages View Succe	ssful Tasks	View Log
	-		Hardware and So Engineered to Work 1	
Help			< Back Next > Fini	sh 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.

Oracle Fusion Mi	ddleware 12c Identity and Access Management QuickStart Installation - Step 7 of 7 ×
Installation Complete	
 Welcome Auto Updates Installation Location Prerequisite Checks Installation Summary 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/Middleware/Oracle_Home Log File Location: /tmp/Oralnstall2020-08-06_12-41-45AM/install2020-08-06_12-41-45AM.log Feature Sets Installed Successfully OAM 12.2.1.4.0 OIM 12.2.1.4.0 Administration Console 12.2.1.4.0 Administration Console Additional Language Help Files 12.2.1.4.0 JRF Full 12.2.1.4.0 Core Application Server 12.2.1.4.0 WebLogic Server Essential Components for Developers 12.2.1.4.0 Coherence Product Files 12.2.1.4.0 Coherence JavaDoc 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 WebLogic Client Jurs 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0
Help	< Back Next > Finish Cancel

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.

	Repository Cre	ation Utility - Step 4 of	8	
Repository Creation Utilit	у			7
Welcome	Specify a unique prefix for all sch schemas later.	hemas created in this session	, so you can easily locate, reference, an	d manage th
Database Connection Details	Select existing prefix:			
Select Components	Create new prefix:	DEV		
Schema Passwords			not start with a number. No special cha	aracters.
Map Tablespaces		.,,		
Summary	Component		Schema Owner	
Summary	Oracle AS Repository	Components		
Completion Summary	AS Common Schemas			
	Common Infrastructure Services *		DEV_STB	
	✓ Oracle Platfor	m Security Services	DEV_OPSS	
	Oracle Enterprise Scheduler		ESS	
	User Messaging Service		UMS	
	✓ Audit Services		DEV_IAU	
	Audit Services	Append	DEV_IAU_APPEND	
	Audit Services	Viewer	DEV_IAU_VIEWER	
	Metadata Serv	vices	DEV_MDS	
	Weblogic Serv	ices *	DEV_WLS	
	BOA Suite			
	IDM Schemas			
	Oracle Identity		OIM	
	✓ Oracle Access	Manager	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 Midd	leware Config	guration Wi	zard - Page 1	of 8		×
Configuration Type							
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	What do you want © Create a new of Update an exist Domain Location: Create a new doma	lomain ting domain racle/Oracle/N	Aiddleware/Ora	acle_Home/user_	projects/domains/b	ase_domai	n B <u>r</u> owse
Help				< <u>B</u> a	ck <u>N</u> ext >	<u>F</u> inish	Cancel

Click Next to continue.

2). The Templates screen appears.

	Fusion Middleware Configuration Wizard -	Page 2 of 12	×
Templates			
Create Domain Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Create Domain Using Product Templates: Filter Templates: Type here Include all gelected templates Available Templates Basic WebLogic Server Domain [wlserver] * Insight [soa] Oracle B2B Reference Configuration [soa] Oracle B2B Reference Configuration [soa] Oracle B2B Reference Configuration [soa] Oracle B2B Client [soa] Oracle Identity Manager [idm] Oracle Identity Manager [idm] Oracle Enterprise Manager [em] Oracle Enterprise Scheduler Service Basic [oracle Oracle Domain Using Custom Template: Template location:	_common]	
Help	5	< Back Next > Finish Cancel	

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

Selecting these templates automatically selects the following as dependencies:

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

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

r	Fusion Middlew	vare Configuration Wizard - Pag	e 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/Oracl Oracle/Middleware/Oracle_Home/user			
Help			< <u>B</u> ack <u>N</u> ext >	Einish Cancel	ר

3). The Application Location screen appears.

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

	Fusion Middle	ware Configuration Wizard - P	age 4 of 12	×
Administrator Account				
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Name Password Confirm Password Must be the same as number or special ch	s the password. Password must contain	at least 8 alphanumeric cha	aracters with at least one
Help			< <u>B</u> ack <u>N</u> ext >	Einish Cancel

4). The Administrator Account screen appears.

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

	Fusion Middleware Configuration Wizard	- Page 5 of 12	×
Domain Mode and JDK			
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain Mode Development Utilize boot.properties for username and password Production Require the entry of a username and password JDK Oracle HotSpot 1.8.0_221 /home/ORACLE_SW/. Other JDK Location:	l, and do not poll for applications to deploy. Java/jdk1.8.0_221	Browse
Help		< Back Next > Finish	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.

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 Driver: *Oracle's Driver (Thin) for Service connections; Versions: • • Connection Parameters Connection <u>URL String</u> Host Name: Dell5530 DBMS/Service: suse Port: Schema Owner: DEV_STB Schema Password: Get RCU Configuration Cancel Connection Result Log
	Connecting to the database serverOK Retrieving schema data from database serverOK Binding local schema components with retrieved dataOK Successfully Done.
Help	< <u>Back</u> <u>Next</u> > <u>Finish</u> Cancel

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

0		F	usion Middleware Co	onfiguration \	Wizard - Page	7 of 12		×
J	DBC Component Schema							
	Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary	Ho: DBI Sch Orz	Idor: Connection Parameters St Name: MS/Service: Standard Owner: Standard Owner: Configuration for of Convert to G	Connection P P S Component scher GridLink O C	ort: chema Password: nas: onvert to RAC mult		O Don't com	vert
Ý	Configuration Progress		Component Schema	DBMS/Service	Host Name	Port	Schema Owner	Schema Password
9	End Of Configuration		LocalSvcTbl Schema	SUSE	Dell5530	1521	DEV_STB	
			WLS Schema	SUSE	Dell5530	1521	DEV_WLS_RUN	
			OAM Infrastructure	SUSE	Dell5530	1521	DEV_OAM	
			OPSS Audit Schema	SUSE	Dell5530	1521	DEV_IAU_APPEI	
			OPSS Audit Viewer Sche	SUSE	Dell5530	1521	DEV_IAU_VIEWE	
			OPSS Schema	SUSE	Dell5530	1521	DEV_OPSS	
	Help				< [<u>B</u> ack <u>N</u> e	xt > <u>F</u> inis	h Cancel

7). The JDBC Component Schema screen appears.

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

		Fu	usion	Middleware Configuration Wizard - I	Page 8 of 12	×
	DBC Component Schema Tes					
4	Create Domain		Status	Component Schema	JDBC Connection U	JRL
	Templates		4	LocalSvcTbl Schema	jdbc:oracle:thin:@//Dell5530:15	21/SUSE
	Application Location		1	WLS Schema	jdbc:oracle:thin:@//Dell5530:15	21/SUSE
I			1	OAM Infrastructure	jdbc:oracle:thin:@//Dell5530:15	21/SUSE
Ĭ	Administrator Account		4	OPSS Audit Schema	jdbc:oracle:thin:@//Dell5530:15	21/SUSE
Ý	Domain Mode and JDK		4	OPSS Audit Viewer Schema	jdbc:oracle:thin:@//Dell5530:15	21/SUSE
ψ	Database Configuration Type		4	OPSS Schema	jdbc:oracle:thin:@//Dell5530:15	21/SUSE
ų,	Component Datasources					
0	JDBC Test					
	Advanced Configuration	1				
	Configuration Summary					
Ţ	Configuration Progress		<u>T</u> est Se	lected Connections		
6	End Of Configuration	Cor	nection	Result Log		
		Drive URL User Pass SQL	er=oracl =jdbc:or r=DEV_S sword=* . Test=S	******** ELECT 1 FROM DUAL		
				213: Test Successful! 213: JDBC connection test was successful.		
				213: Mo action required		
	Help				< Back Next > Finish	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 2	1		×
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, Domain Frontend Host Capture Configure Domain Frontend Host Deployments and Services Target to Servers or Clusters 	Clusters, Virtual	Targets and Col	herence	
Help		< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

9). The Advanced Configuration screen appears.

On the Advanced Configuration screen, select:

- Administration Server
- Node Manager
- Topology

Then, click **Next** to continue.

	Fusion Midd	lleware Configu	uration Wizar	rd - 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 Progress	Server Name Listen Address Listen Port Enable SSL SSL Listen Port Server Groups	AdminServer 192.168.1.7 7001 Unspecified Unspecified	and may not con	tain any : , = * ?	% / _cloned.		•
Help				< <u>B</u> ac	k <u>N</u> ext >	Einish Canc	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	Configuration Wizard - P	age 11 of 21	×
Node Manager				
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Coherence Clusters Machines Virtual Targets Partitions	Node Manager Type Per Domain Default Lo Per Domain Qustom L Node Manager Home: Manual Node Manage Node Manager Credentials Username: Password: Confirm Password:	.ocation re/Oracle_Home/user_project r Setup	ts/domains/base_domain/nodemana	ger B <u>r</u> owse
<u>Configuration Summary</u> Configuration Progress	Must be the same as the pa number or special characte		at least 8 alphanumeric characters v	with at least one
Help			< Back Next > Finis	h Cancel

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

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

Managed Servers								$\bigcirc)$
Create Domain Templates	Ē	👍 Add 🖹 Ci	one 🔀 <u>D</u> elete				🔊 Dis <u>c</u>	ard Changes
<u>Application Location</u> Administrator Account		Server Name	Listen Addres	s	Listen Port	Enable SSL	SSL Listen Port	Server Group
Domain Mode and JDK		oam_server1	192.168.1.7	•	14100		Disabled	OAM-MGD
Database Configuration Type		oam_policy_mgr1	192.168.1.7	-	14150		Disabled	OAM-POLIC
I								
Managed Servers								
Managed Servers <u>Clusters</u> <u>Server Templates</u>								
Managed Servers Clusters Server Templates								
Managed Servers <u>Clusters</u> <u>Server Templates</u> <u>Coherence Clusters</u>								
Managed Servers Clusters Server Templates Coherence Clusters Machines								
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 Middlewa	re Configuration V	Vizard - Page 13	of 23	×
Clusters					
Templates		Delete			Dis <u>c</u> ard Changes
Application Location	Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS Port
Administrator Account	oam_cluster_1			0	0
Domain Mode and JDK	oam-policy_cluster_1			0	0
Database Configuration Type					
Component Datasources					
JDBC Test					
Advanced Configuration					
Administration Server					
V Node Manager					
Managed Servers					
Clusters					
Server Templates					
Dynamic Servers					
Assign Servers to Clusters					
<u>Coherence Clusters</u>					
Machines					
Virtual Targets	· •				
Partitions					
Help			< <u>B</u> ac	k <u>N</u> ext > <u>F</u> ir	nish 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 Configuration Wizard - Page 14 of 23 ×						
Server Templates			Ē			
Create Domain Templates	Add	<u>Delete</u>			🔊 Dis <u>c</u> ard Changes	
Application Location	Name	Listen Port	SSL	Listen Port	Enable SSL	
Administrator Account	oam-server-templat	te	7100	8100		
Domain Mode and JDK	wsm-cache-server-t	template	7100	8100		
Database Configuration Type		160				
Component Datasources						
UDBC Test						
Advanced Configuration						
Administration Server	101					
Wode Manager						
Managed Servers						
<u>Clusters</u>						
Server Templates						
Dynamic Servers						
Assign Servers to Clusters						
<u>Coherence Clusters</u>						
Wachines						
Virtual Targets						
Partitions	•					
<u>H</u> elp			< <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 Middlew		-		-			
Dynamic Servers							A10	
Create Domain Templates	-						Dis <u>c</u> ar	d Changes
Application Location Administrator Account Domain Mode and JDK	Cluster Name	Server Name Prefix	Server Template	Dynamie Cluster Size	Machine Name Match Expression	Calculated Machine Names	Calculated Listen Ports	Dynamic Server Groups
 Database Configuration Type 	oam_cluster_1	Disable	Unspecified 💌	Disablec	Disabled			Unspecifi•
Component Datasources	oam-policy_cluster_1	Disable	Unspecified 🔻	Disablec	Disabled			Unspecifi
Administration Server Node Manager Managed Servers Clusters Server Templates Dynamic Servers								
Assign Servers to Clusters								
Coherence Clusters								
ounerence clusters								
Machines								
	· · ·							
Machines Virtual Targets Partitions								

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

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

	Fusion Middleware Configuration Wiza	ard - Page 16 of 23 ×
Assign Servers to Clusters		
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Dynamic Servers Assign Servers to Clusters Coherence Clusters Machines Virtual Targets Partitions	Servers Select one or more servers in the left pane and one c assign the server or servers to the cluster.	Cluster Custer Custer Composition Custer Composition Custer Custer
Help		< <u>Back Next > Finish</u> Cancel

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	Vizard - 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>	9	
Vode Manager		
Managed Servers		
<u>Clusters</u>		
Server Templates		
Dynamic Servers		
Assign Servers to Clusters		
Coherence Clusters		
<u>Machines</u>]	
Virtual Targets		
Partitions	-	
Help		< Back Next > Finish Cancel

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

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

	F	Fusion Middleware Configu	ration Wizard - Pa	age 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 Machines Assign Servers to Machines Virtual Targets		Machine Unix Machine Add Delete Name use Machine_1	Node Manager L localhost		Node Mana	bisgard Changes ger Listen Port 5556
Help				< Back Nex	t > <u>F</u> inis	h Cancel

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

	Fusion Middleware Configuration Wizard - Pa	ge 19 of 24 ×
Assign Servers to Machines		
Create Domain	Servers	Machines
Application Location Administrator Account Domain Mode and JDK		 Machine Suse_Machine_1 AdminServer oam_policy_mgr1 oam_server1
Database Configuration Type Component Datasources JDBC Test	>	
Advanced Configuration Administration Server Node Manager		
<u>Managed Servers</u> <u>Clusters</u> <u>Server Templates</u>		
Dynamic Servers		
Assign Servers to Clusters Coherence Clusters		
w Machines		
Assign Servers to Machines Virtual Targets	Select one or more servers in the left pane and one machine assign the server or servers to the machine.	in the right pane. Then use the right arrow button (>) to
Help		< Back Next > Finish Cancel

19). The Assign Servers to Machines screen appears.

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

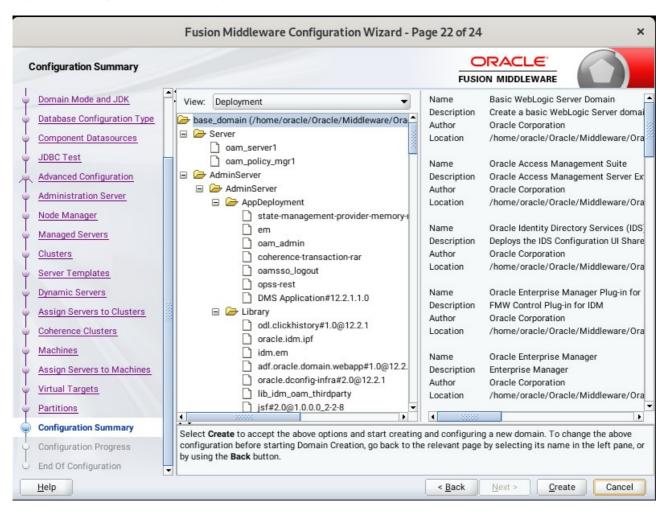
		Fusion Middlewar	e Configuration V	Vizard - Page	20 of 24		×
Virtual Targets						A.M.	
Create Domain Templates		Add 🗶 🗈	elete			🧳 Dis <u>c</u> ard	Changes
Application Location Administrator Account		Name	Target	Host Names	URI Prefix	Explicit Port	Port Offset
Domain Mode and JDK		,					
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UDBC Test							
Advanced Configuration Administration Server	88 88						
Node Manager Managed Servers							
Clusters							
<u>Server Templates</u> <u>Dynamic Servers</u>							
<u>Assign Servers to Clusters</u> <u>Coherence Clusters</u>							
<u>Machines</u> Assign Servers to Machines							
Assign Servers to Machines Virtual Targets	-						
Help				<	<u>B</u> ack <u>N</u> ext >	<u>Einish</u>	Cancel

20). The Virtual Targets screep appears.

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

	Fusion Middleware Configuration W	/izard - Page 21 of 24	×
Partitions			
Create Domain Templates	Add X Delete	5	Dis <u>c</u> ard Changes
Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters		Name	
Server Templates Dynamic Servers Assign Servers to Clusters Coherence Clusters Machines Assign Servers to Machines Virtual Targets Help		< Back Next > Fin	ish Cancel

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



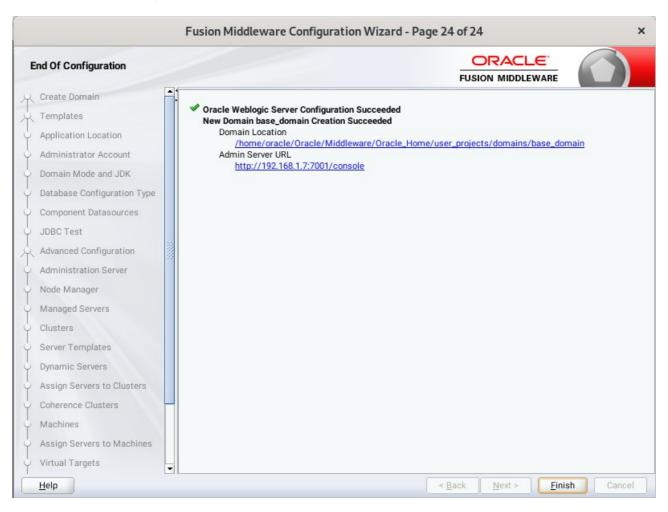
22). The Configuration Summary screen appears.

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

	F	usion Middleware Configur	ation Wizard - Pa	ge 23 of 24	Ļ		×
Configuration Progress						_	
Create Domain							
A Templates			100%				
Application Location		Copy Unprocessed Artifacts					
Administrator Account	1	OPSS Processing					
 Domain Mode and JDK 		Security Processing Artifacts Generation					
Database Configuration Type		String Substitution					
	1	Post Processing					
OComponent Datasources							
ý JDBC Test							
Advanced Configuration	10000						
Administration Server							
V Node Manager							
Managed Servers							
O Clusters							
Server Templates							
Ú Dynamic Servers							
4 Assign Servers to Clusters							
Coherence Clusters							
4 Machines	-						
Assign Servers to Machines							
Virtual Targets							
					<u> </u>		
Help				< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

23). The Configuration Progress screen appears.

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



24). The End of Configuration screen appears.

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&'

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oracle@D	ell5530:RACLE_SW/IDM/ ×	oracle@Dell5530:common/commo ×	oracle@Dell5530:ns/base_domain/b ×	
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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 Enterprise Manager Console.

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	Sign in - Oracle Enterprise Manager - Mozilla Firefox	:
🖸 EM Express - Database 🖯	× Sign in - Oracle Enterprise ℕ × +	
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Home Page:

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Servers 2 Down 1 Up Clusters	Administration Server Name AdminS Host Dell53 Listen Port 7001 Servers View \checkmark Create \searrow Delete		v ↓ [7]				
2 Down	Name	Status	Cluster	Machine	State	Health	
	AdminServer(admin)	+		suse_Machine_1	Running	ок	
Deployments	oam_policy_mgr1	+	oam-policy_cluster_1	suse_Machine_1	Shutdown	Unknown	
	oam_server1	+	oam_cluster_1	suse_Machine_1	Shutdown	Unknown	
2 Down 3 Up							
Domain Partitions		_					
~	Columns Hidden 34					Servers 3	of 3

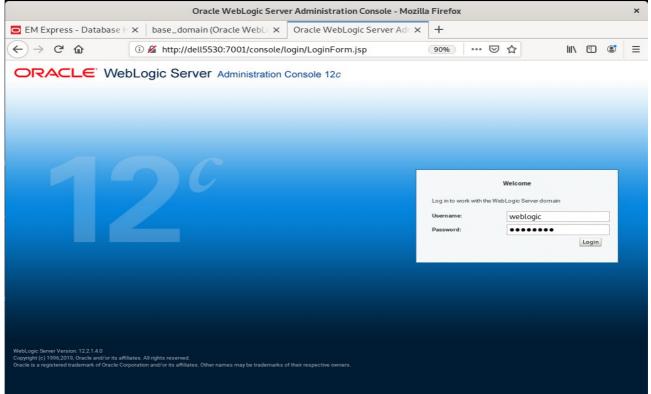
Starting the managed oam server and oam policy server defined in domain, wait until these servers come up into RUNNING state:

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

2). Access to Administration Server Console

Login Page:



Home Page:

	Home Page - base_do	main - WLS Console - Mozilla Firefox	×
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	dministration Console 12c		Q
Change Center	🙆 Home Log Out Preferences 🔤 Record Help	P	Welcome, weblogic Connected to: base_domain
View changes and restarts	Home		
Click the Lock & Edit button to modify, add or	Home Page		
delete items in this domain.	Information and Resources		
Lock & Edit	Helpful Tools	General Information	
Release Configuration	Configure applications	Common Administration Task Descriptions	
Domain Structure	Configure GridLink for RAC Data Source	 Read the documentation 	
base_domain	Configure a Dynamic Cluster	 Ask a question on My Oracle Support 	
Domain Partitions	 Recent Task Status 		
Environment	 Set your console preferences 		
Deployments Services	 Oracle Enterprise Manager 		
Security Realms	- Domain Configurations		
- Interoperability - Diagnostics			1
E Dignotico	Domain • Domain	Resource Group Templates Resource Group Templates	Interoperability • WTC Servers
	• Domain	Resource Group Templates	WICServers Jolt Connection Pools
	Domain Partitions	Resource Groups	
	Domain Partitions	Resource Groups	Diagnostics
How do I	Partition Work Managers		Log Files
How do I		Deployed Resources	Diagnostic Modules
 Search the configuration 	Environment	Deployments	Built-in Diagnostic Modules
 Use the Change Center 	Servers		Diagnostic Images
Record WLST scripts	Clusters	Services	Request Performance
Change Console preferences Manage Console extensions	Server Templates	Messaging	Archives Context
Manage console extensions Monitor servers	 Migratable Targets 	 JMS Servers 	SNMP
	Coherence Clusters	 Store-and-Forward Agents 	Interceptors
System Status	Machines Virtual Hosts	 JMS Modules Path Services 	
Health of Running Servers as of 4:06 AM	Virtual Posts Virtual Targets	Path Services Bridges	Charts and Graphs
			-
Failed (0)	Work Managers	Data Sources	Monitoring Dashboard

	Summary of Serve	rs - base_dom	nain - WLS Console - Mo	ozilla Firefox				
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lick the Lock & Edit button to modify, add or elete items in this domain. Lock & Edit Release Configuration	Summary of Servers Configuration Control A server is an instance of WebLogic	Server that runs in its o	wn Java Virtual Machine (JVM) and I	has its own configuration				
omain Structure see_domain - Domain Partitions - Environment - Deployments - Services - Security Realms - Interoperability - Diagnostics - Selvices - Diagnostics - Selvices - Diagnostics - Selvices	This page summarizes each server t C2 Customize this table Servers (Filtered - More Columns I Click the Lock & Edit button in the Ch	Exist)		rmain.				
	New Clone Delete	Туре	Cluster	Machine	State	Health	of 3 Previous Nex	t
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w do I		Configured		suse_Machine_1	RUNNING	🛩 ок	14100	1
Create Managed Servers	oam_server1	Configured	oam_cluster_1					-
	New Clone Delete	Configured	oam_cluster_1		Sł	nowing 1 to 3	of 3 Previous Nex	ct

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

EMExpress - Database X base_domain (Oracle WebL X Settings for suse_Machine_X + C <p< th=""><th colspan="10">Settings for suse_Machine_1 - base_domain - WLS Console - Mozilla Firefox ×</th></p<>	Settings for suse_Machine_1 - base_domain - WLS Console - Mozilla Firefox ×									
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Release Configuration Designation	Lock & Edit	Node Manager Status	ode Manager Log							
base_domain B-Domain Partitions B-Environment Servers B-Observers C-Observers Groups Resource Group Templates Machines Virtual Hosts Virtual Hosts Work Managers Oorenne Templates Besource Manager status Monitor Node Manager logs Status: Resource Manager logs Create and configure machines	Release Configuration									
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Charters Constants Constants		Status:	Reachable		Current status of this Node Manager. More	e Info				
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Overloaded (0) Warning (0)	Failed (0)									
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	OK (3)	1								

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

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Copyright © 2000, 2019, Oracle and	'or its affiliates. All rights reserved.				

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Oracle Fusion Middleware 12c on SLES 15 SP2

4). Access to Polic	y Manager Conso	le - URL: <u>http://host:port</u>	/access				
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	n Management rgle Sign-On sessions	Password Policy On		ag-ins + -			

End of Oracle Access Manager.

Oracle Identity Manager

1.Installing Oracle Identity and Access Management 12cPS4 software

1-1. Prerequisites:

Installation of Oracle Identity and Access Management requires:

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

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

<pre>oracle@Dell5530:~> export ORACLE_HOME=/home/oracle/app/product/12.2.0/dbhome_1/ oracle@Dell5530:~> export ORACLE_SID=suse oracle@Dell5530:~> /home/oracle/app/product/12.2.0/dbhome_1/bin/sqlplus /nolog</pre>
SQL*Plus: Release 12.2.0.1.0 Production on Mon Jul 20 21:56:28 2020
Copyright (c) 1982, 2016, Oracle. All rights reserved.
SQL> conn /as sysdba Connected. SQL> @/home/oracle/app/product/12.2.0/dbhome_1/javavm/install/initxa.sql
PL/SQL procedure successfully completed.
JVMRMACTION
FULL_REMOVAL
PL/SQL procedure successfully completed.
Package created.
Package body created.
Synonym created.
Grant succeeded.
SQL>

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

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

SQL> show parameter open_cursors;		
NAME	TYPE	VALUE
open_cursors SQL> alter system set open_cursors=	integer 1600 scope=sp	
System altered.		
SQL> shutdown immediate; Database closed. Database dismounted. ORACLE instance shut down. SQL> startup ORACLE instance started.		
Total System Global Area 9898557440 Fixed Size 12169752 Variable Size 2013269480 Database Buffers 7851737088 Redo Buffers 21381120 Database mounted. Database opened. SQL> show parameter open_cursors;	bytes bytes bytes	
NAME	TYPE	VALUE
open_cursors SQL> []	integer	1600

)

2). Oracle JDK 1.8.0_221 and later installed.

1-2. Log in to the target system (SLES 15 SP2 64-bit OS) as a non-admin user. Download the Oracle Identity and Access Management 12cPS4 (12.2.1.4.0) generic installer .zip file from 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_12.2.1.4.0_idmqs_Disk1_1of2.zip" and "fmw_12.2.1.4.0_idmqs_Disk1_2of2.zip") files and launch the installation program by running '**java -jar fmw_12.2.1.4.0_idmquickstart.jar**'

For the actual installation, follow the steps below:

1). Installation Inventory Setup.

Oracle Fusion Middleware 12c Oracle Identity Management QuickStart Installer. 🗙						
Installation Inven	tory Setup					
Central Inventory Directory Enter the Central inventory of inventory directory if it does	lirectory for all your oracle installation not exist.	s.The installer will create a r	new central			
Inventory Directory:	/home/oracle/oralnventory		Browse			
	Enter the full path for the directory.					
Operating System Group :	oinstall	•	-			
	Specify a group with write permissi	on to the inventory directory				
Central Inventory Pointer Fil	e					
-	(createCentralInventory.sh) in the inve o identity the location of the central in		•			
administrative operations, s	such as patching and upgrade.					
Help		<u>0</u> K	Cancel			

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

2). Welcome page appears.

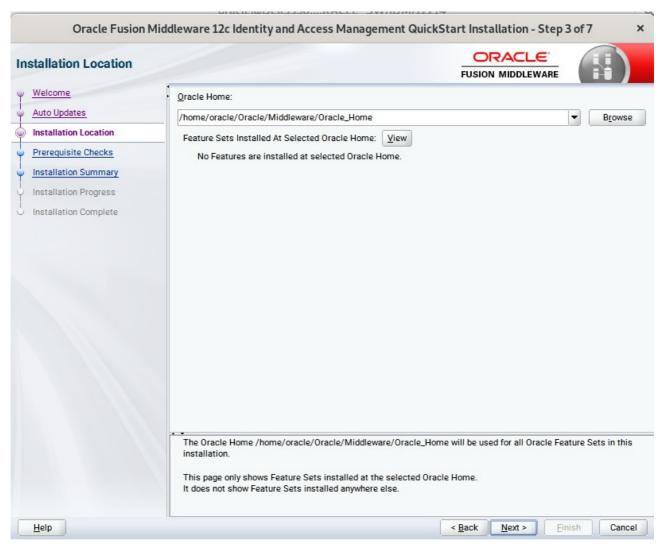
eicome	you need to manage or evaluation.	
Auto Updates Welcome to the Oracle Fusion Middleware 12c (12.2.1.4.0) IDM Suite Installation Location Use this installer to create a new Oracle home that contains everythin protect applications with the Oracle IDM Suite software for production Prerequisite Checks For more information, see Install, Patch, and Upgrade in the Oracle Fusion Installation Progress Context-sensitive online help is available from the Help button.	you need to manage or evaluation.	
Copyright (c) 2010, 2019, Oracle and/or its affiliates. All rights reserve		
Help < Bac		

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

Oracle Fusion Mi	ddleware 12c Iden	tity and Access Manageme	nt QuickStart Installation - S	Step 2 of 7 ×
Auto Updates				
<u>Welcome</u>				
Auto Updates	Skip <u>Auto Update</u>	es		
Installation Location	Select patches f	irom <u>d</u> irectory		
Prerequisite Checks	Location:			Browse
Installation Summary	Search My Oracl	le Support for Updates		
Installation Progress	Username:			
U Installation Complete	Password:			
		Proxy Settings		Test Connection
	<u>Search</u>			
	· •			
Help			< <u>B</u> ack <u>N</u> ext >	Einish Cancel

3). The Auto Updates page appears.

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



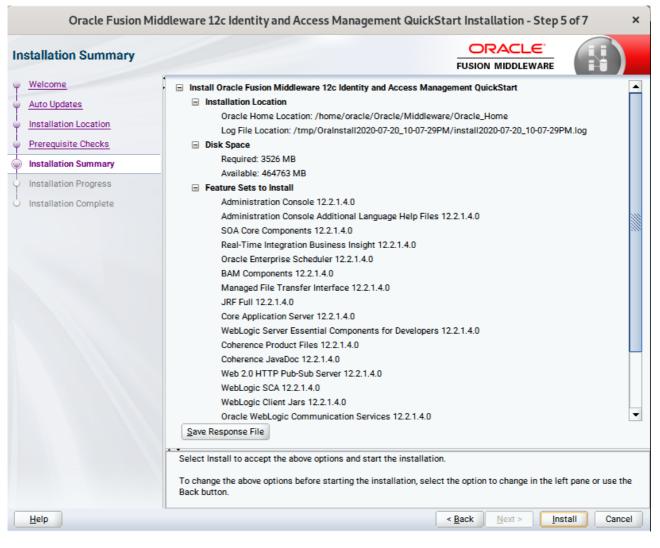
4). The Installation Location page appears.

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

	Oracle Fusion N	liddleware 1	2c Identity and Access Management QuickStart Installation - Step 4	lof7 ×
P	rerequisite Checks			
Ŷ	Welcome	-	100%	
T	Auto Updates			
Ţ	Installation Location		Checking operating system certification	
9		- 	Checking Java version used to launch the installer	
9	Installation Summary			
Ŷ	Installation Progress			
Ó	Installation Complete			
				(1953)
		Stop	Rerun Skip View Successful Tasks	View Log
			cking operating system certification pected result: One of oracle-6, oracle-7, redhat-7, redhat-6, SuSE-11, SuSE-12, SuSE-15	
		Ac	tual Result: SuSE-15-SP2	
			eck complete. The overall result of this check is: Passed cking Java version used to launch the installer	
			pected result: 1.8.0_191	
			tual Result: 1.8.0_221 eck complete. The overall result of this check is: Passed	
[Help		< Back Next > Ein	ish Cancel

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

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



6). The Installation Summary page appears.

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

Oracle Fusion Mic	ddleware 12c Identity and Access Management QuickStart Installation - Step 6 o	of7 ×
Installation Progress		
V Welcome	100%	
Auto updates Installation Location		
Prerequisite Checks	Prepare V Copy	
Installation Progress	Image: Generating Libraries Image: Performing String Substitutions	
 Installation Complete 	V Linking	
	Setup Saving the inventory	
	Post install scripts	
	View Messages	View <u>L</u> og
	Hardware and Sof Engineered to Work To	
Help	< Back Next > Finis	h Cancel

7). The Installation Progress page appears.

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

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

nstallation Complete	
 Welcome Auto Updates Installation Location Prerequisite Checks Installation Summary Installation Progress Installation Complete 	 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 Core Components 12:21.4.0 Administration Oracle Additional Language Help Files 12:21.4.0 Managed File Transfer Interface 12:21.4.0 MebLogic Server Essential Components for Developers 12:21.4.0 Coherence JavaDoc 12:21.4.0 WebLogic SCA 12:21.4.0 WebLogic SCA 12:21.4.0 Met Step(s): I. Use the Repository Creation Utility to create the required schemas in a supported database. Use the Configuration Wizard to create a domain using the required domain configuration templates. See the produ
	Oracle Fusion Middleware 12c Identity and Access Management QuickStart installation completed successfully

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

2. Configuring the Oracle Identity Manager Domain

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

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

Screenshot: Database schemas creating for Oracle Identity Manager.

	Repository Cre	ation Utility - Step 4 of 8	3	×
Repository Creation Utility				<
Welcome	Specify a unique prefix for all sch schemas later.	emas created in this session, s	so you can easily locate, reference,	and manage the
Database Connection Details	O Select existing prefix:			-
Select Components				
Schema Passwords	Oreate new prefix:	DEV		
		Alpha numeric only. Canno	ot start with a number. No special	characters.
Map Tablespaces	Component		Schema Owner	
🦕 <u>Summary</u>	Oracle AS Repository	Components	Schema Owner	
Completion Summary	AS Common Sche			
		structure Services *	DEV_STB	
	✓ Oracle Platform	m Security Services	DEV_OPSS	
	Oracle Enterpr	ise Scheduler	ESS	
	User Messagin	g Service	DEV_UMS	
	Audit Services	<u> </u>	DEV_IAU	
	Audit Services	Append	DEV_IAU_APPEN	D
	Audit Services	Viewer	DEV_IAU_VIEWER	2
	Metadata Serv	ices	DEV_MDS	
	Weblogic Serv	ices *	DEV_WLS	
	SOA Suite			
	SOA Infrastruc	ture	DEV_SOAINFRA	
	🖃 🔳 IDM Schemas			
	✓ Oracle Identity	17	DEV_OIM	
	Oracle Access	Manager	OAM	
	* Mandatory component. Ma	ndatory components cannot be	deselected.	
<u>H</u> elp			< <u>B</u> ack <u>N</u> ext > <u>F</u> ir	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 Midd	lleware Confi	guration Wiz	ard - Page	e 1 of 8				×
Configuration Type								6	
Configuration Type Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	What do you want Create a new of Update an exis Domain Location:	domain sting domain	Middleware/Orac	le_Home/us	FUS	ION MIDDLEY	WARE	in Br	rowse
	Create a new doma	ain.							
Help				<	Back	<u>N</u> ext >	<u> </u>		Cancel

Click Next to continue.

2). TI	he Terr	plates	screen	appears.
--------	----------------	--------	--------	----------

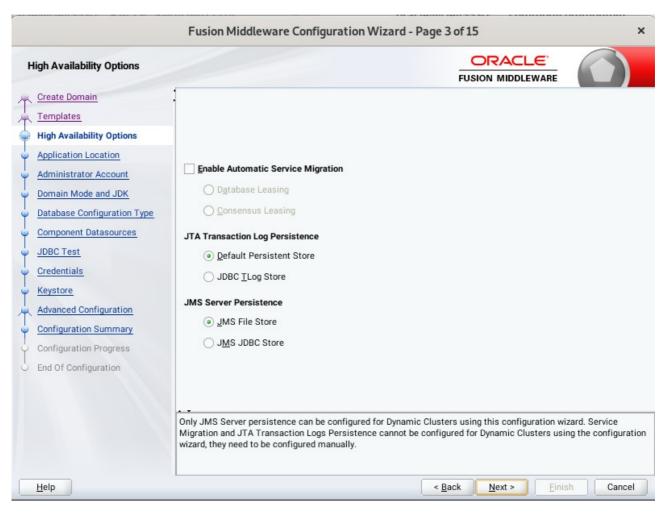
	Fusion Middleware Configuration Wizard - Page 2 of 13	<
Templates		
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Create Domain Using Product Templates: Filter Templates: Type here Include all gelected templates Include all previously applied templates Available Templates Basic WebLogic Server Domain [wlserver] * Insight [soa] Oracle B2B Reference Configuration [soa] Oracle B2B Reference Configuration [soa] Oracle B2B Client [soa] Oracle B2B Client [soa] Ø Dracle Identity Manager [idm] Ø Oracle Enterprise Manager [idm] Ø Oracle Enterprise Manager [em] Oracle Enterprise Manager [em] Oracle Enterprise Scheduler Service Basic [oracle_common] Ø Greate Domain Using Custom Template: Template location: Zhome/oracle/Oracle/Middleware/Oracle_Home Browse	
Help	< <u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel	1

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

Selecting this template automatically selects the following as dependencies:

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

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



3). The High Availability Options screen appears.

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

٢	Fusion Middlew	vare Configuration Wizard -	Page 4 of 15			×
Application Location					_ 6	
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Credentials Keystore Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain name: Domain location: Application location:	base_domain /home/oracle/Oracle/Middleware Oracle/Middleware/Oracle_Home				B <u>r</u> owse
Help			< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

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

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

Fusion Middleware 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 s the password. Password must contain paracter.	at least 8 alphanumeric charad	sters with at least one		
Help			< <u>B</u> ack <u>N</u> ext >	Einish Cancel		

5). The Administrator Account screen appears.

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

Fusion Middleware Configuration Wizard - Page 6 of 15 ×					
Domain Mode and JDK					
Create DomainTemplatesHigh Availability OptionsApplication LocationAdministrator AccountDomain Mode and JDKDatabase Configuration TypeComponent DatasourcesJDBC TestCredentialsKeystoreAdvanced ConfigurationConfiguration SummaryConfiguration ProgressEnd 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 @ Qracle HotSpot 1.8.0_221 /home/ORACLE_SW/Java/jdk1.8.0_221 Other JDK Location:				
Help	< Back Next > Finish Cancel				

6). The Domain Mode and JDK screen appears.

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

7).	The	Database	Configuration	Туре	screen appears.
-----	-----	----------	---------------	------	-----------------

	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 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: Del15530 DBMS/Service: suse Port: 1521 Schema Owner: DEV_STB Schema Password: Get RCU Configuration Cancel Connection Result Log Connection database serverOK Binding local schema components with retrieved dataOK Successfully Done.
Help	< Back Next > Finish Cancel

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

	F	usion Middleware Co	onfiguration	Wizard - Page	8 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		endor:) Connection Parameters Dest Name: BMS/Service: BMS/Service: BMS/Service: Convert to 0 Convert to 0 lits to the data above will af	Connection	Port: Schema Password: emas: Convert to RAC mul		e O Don't co	nvert
V Keystore		Component Schema	DBMS/Service	Host Name	Port	Schema Owner	Schema Password
Advanced Configuration		OIM Schema	SUSE	Dell5530	1521	DEV_OIM	
 Configuration Summary 		SOA EDN (XA)	SUSE	Dell5530	1521	DEV_SOAINFR4	
Configuration Progress		SOA EDN (Local)	SUSE	Dell5530	1521	DEV_SOAINFR4	
End Of Configuration		LocalSvcTbl Schema	SUSE	Dell5530	1521	DEV_STB	
C End of configuration		User Messaging Service	SUSE	Dell5530	1521	DEV_UMS	
		SOA (XA)	SUSE	Dell5530	1521	DEV_SOAINFR4	
		SOA (Local)	SUSE	Dell5530	1521	DEV_SOAINFR4	
		WLS Schema	SUSE	Dell5530	1521	DEV_WLS_RUN	
Help				<	Back N	lext >	ish Cancel

8). The JDBC Component Schema screen appears.

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

	Fu	ision N	Aiddleware Configuration Wizard - Pag	e 9 of 15 ×
JDBC Component Schema Test				
Create Domain		Status	Component Schema	JDBC Connection URL
Templates		1	OIM Schema	jdbc:oracle:thin:@//Dell5530:1521/SUSE
 High Availability Options 		1	SOA EDN (XA)	jdbc:oracle:thin:@//Dell5530:1521/SUSE
		1	SOA EDN (Local)	jdbc:oracle:thin:@//Dell5530:1521/SUSE
<u>Application Location</u>		1	LocalSvcTbl Schema	jdbc:oracle:thin:@//Dell5530:1521/SUSE
Administrator Account		1	User Messaging Service	jdbc:oracle:thin:@//Dell5530:1521/SUSE
Domain Mode and JDK		1	SOA (XA)	jdbc:oracle:thin:@//Dell5530:1521/SUSE
Database Configuration Type		1	SOA (Local)	jdbc:oracle:thin:@//Dell5530:1521/SUSE
Component Datasources		1	WLS Schema	jdbc:oracle:thin:@//Dell5530:1521/SUSE
		1	OIM MDS Schema	jdbc:oracle:thin:@//Dell5530:1521/SUSE
JDBC Test		1	OWSM MDS Schema	jdbc:oracle:thin:@//Dell5530:1521/SUSE
<u>Credentials</u> <u>Keystore</u> <u>Advanced Configuration</u>			ected Connections <u>Cancel Testing</u>	
	Com	ponent	Schema=OIM Schema	
Configuration Summary			e.jdbc.OracleDriver acle:thin:@//Dell5530:1521/SUSE	
Configuration Progress		=DEV_0		
C End Of Configuration			*****	
	SQL	lest=s	elect 1 from schema_version_registry where owner=	(select user from dual) and mr_type='OIM' and vers
			213: Test Successful!	
			213: JDBC connection test was successful.	-
			200001	Þ
Help				< 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.

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

10). The Credentials screen appears.

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

	Fusion Middle	ware Configuration Wizard	- Page 11 of 15		×
Keystore					
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 Progress End Of Configuration	Store Key Name	ums/apns		MIDDLEWARE	es
Help	• •		< <u>B</u> ack <u>N</u>	ext > Einish Can	cel

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

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

r.	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 Node Manager 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, 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>Fini</u>	sh Cancel

12). The Advanced Configuration screen appears.

On the Advanced Configuration screen, select:

- Administration Server
- Node Manager
- Topology

Then, click **Next** to continue.

5	Fusion Midd	leware Con	figuratior	Wizard - Pa	ige 13 of 2	4		×
Administration Server								
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Credentials Keystore Advanced Configuration Managed Servers Clusters Server Templates Coherence Clusters Machines Virtual Targets	Server Name Listen Address Listen Port Enable SSL SSL Listen Port Server Groups	Unspecified		y not contain any	/:,=*?%/_	cloned.		v
Help					< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

13). The Administration Server screen appears.

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

	Fusion Middleware C	Configuration Wizard - Pa	age 14 of 24	×
Node Manager				
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Credentials Keystore Advanced Configuration Administration Server Managed Servers Clusters Server Templates Coherence Clusters	Node Manager Type Per Domain Default Lo Per Domain <u>G</u> ustom Lo Node Manager Home: <u>M</u> anual Node Manager Node Manager Credentials Username: Password: Confirm Password:	ocation re/Oracle_Home/user_project r Setup	s/domains/base_domain/nodemar	ager Browse
<u>Machines</u> <u>Virtual Targets</u>	number or special character		at least 8 alphanumeric characters	s with at least one
Help			< Back Next > Fin	ish 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.

Managed Servers						
<u>Create Domain</u> Templates		C <u>l</u> one X <u>D</u> elete			Dis <u>c</u>	ard Changes
High Availability Options Application Location	Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Group
Administrator Account	oim_server1	192.168.1.7	14000		Disabled	OIM-MGD-S
Domain Mode and JDK	soa_server1	192.168.1.7	7003		Disabled	SOA-MGD
Database Configuration Type Component Datasources JDBC Test Credentials Keystore						
Component Datasources JDBC Test						
Component Datasources JDBC Test Credentials Keystore Advanced Configuration Administration Server Node Manager Managed Servers Clusters Clusters						
Component Datasources JDBC Test Credentials Keystore Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates						
Component Datasources JDBC Test Credentials Keystore Advanced Configuration Administration Server Node Manager Managed Servers Clusters Clusters						

15). The Managed Servers screen appears.

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

		Fusion Middlewa	are Configuration V		age 16 o		×
Clusters					i		
Templates		👍 Add 🗙	<u>D</u> elete				Dis <u>c</u> ard Changes
High Availability Options		Cluster Name	Cluster Address	Frontend	d Host	Frontend HTTP Port	Frontend HTTPS Port
Application Location		oim_cluster_1				0	0
Administrator Account		soa_cluster_1				0	0
Domain Mode and JDK							
Database Configuration Type							
Component Datasources	199						
UDBC Test	100						
Credentials							
Weystore							
Advanced Configuration							
Administration Server							
Vode Manager							
Wanaged Servers							
Clusters							
Server Templates							
Dynamic Servers							
Assign Servers to Clusters		• •					
Coherence Clusters	ļ						
Help					< <u>B</u> ack	<u>N</u> ext > Eir	nish Cancel

16). The Clusters screen appears.

On the Clusters screen:

- 1. Click Add.
- 2. Specify *oim_cluster_1* in the Cluster Name field.
- 3. Leave the Cluster Address field blank.
- 4. Repeat these steps to create *soa_cluster_1* cluster.

Click Next to continue.

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

Server Templates				_
Create Domain Templates	• Add X Delete]		🗐 Dis <u>c</u> ard Changes
High Availability Options Application Location	Name	Listen Port	SSL Listen Port	Enable SSL
Administrator Account	soa-server-template	7100	8100	
	oim-server-template	7100	8100	
Domain Mode and JDK	wsm-cache-server-template	7100	8100	
Database Configuration Type	wsmpm-server-template	7100	8100	
Keystore Advanced Configuration Administration Server Node Manager Managed Servers				
Clusters Server Templates				
Clusters				

17). The Server templates screep appears.

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

Dynamic Servers							A.I.A.	
Create Domain							Dis <u>c</u> ar	d Changes
High Availability Options Application Location Administrator Account	Cluster Name	Server Name Prefix	Server Template	Dynamic Cluster Size	Machine Name Match Expression	Calculated Machine Names	Calculated Listen Ports	Dynamic Server Groups
Domain Mode and JDK	oim_cluster_1	Disabled	Unspecifi 🔻	Disabled	Disabled			Unspecifi
Database Configuration Type	soa_cluster_1	Disabled	Unspecifi 🔻	Disabled	Disabled			Unspecifi
Credentials								
Keystore Advanced Configuration Administration Server								
Keystore Advanced Configuration Administration Server Node Manager								
Keystore Advanced Configuration Administration Server Node Manager Managed Servers Clusters								

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.

7	Fusion Middleware Config	uration Wizard - Page 19 of 26	×
Assign Servers to Clusters			
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Credentials Keystore Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Dynamic Servers to Clusters	 Servers Select one or more servers in the lassign the server or servers to the 	Image: state of the state	er bim_server1 ter_1 er boa_server1
Help		< <u>B</u> ack <u>N</u> e	xt > <u>Finish</u> Cancel

19). The Assign Servers to Clusters screen appears.

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

Fusion Middleware Configuration Wizard - Page 20 of 26		
Coherence Clusters		
Templates	-	🔊 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		
UDBC Test		
<u>Credentials</u>		
Keystore		
Advanced Configuration		
Administration Server		
Node Manager		
Managed Servers		
<u>Clusters</u>	1	
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.

	F	usion Middleware Config	guration Wizard - P	age 21 of 27		×
Machines						
Create Domain Templates High Availability Options Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Credentials Keystore Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Dynamic Servers to Clusters Coherence Clusters		achine Unix Machine Add <u>X</u> Delete Name se_Machine_1	Node Manager I		()	Dis <u>c</u> ard Changes ger Listen Port 5556
Help	-			< <u>B</u> ack Ne	xt >Einis	h Cancel

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

		Fusion Middleware Configuration Wizard -	Pag	je 22 of 2	7		×
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 to Clusters Coherence Clusters			≫ ≪		e se_Machine_1 AdminServer oim_server1 soa_server1		row button (>) to
Help	-			< <u>B</u> ack	<u>N</u> ext >	Einish	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.

F	usion Middlewar	re Configuration V	/izard - Page 2	23 of 27		×
Virtual Targets						
Templates	👍 Add 🕺 🖢	elete			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 Component Datasources						
UDBC Test Credentials						
<u>Keystore</u>						
Advanced Configuration Administration Server						
<u>Node Manager</u> <u>Managed Servers</u>						
<u>Clusters</u> <u>Server Templates</u>						
Dynamic Servers Assign Servers to Clusters						
Coherence Clusters Help				Back Next >	Finish	Cancel

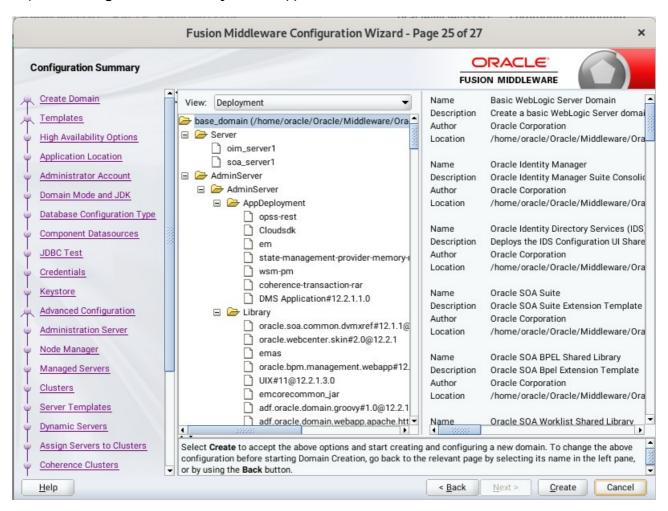
23). The Virtual Targets screep appears.

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 - P	age 24 o	of 27	×
Partitions			i		
Create Domain Templates		Add Delete		9	Dis <u>c</u> ard Changes
High Availability Options		Nan	me		
Application Location					
<u>Administrator Account</u>					
Domain Mode and JDK					
Database Configuration Type	34				
<u>Component Datasources</u>	1995				
UDBC Test					
<u>Credentials</u>					
<u>Keystore</u>					
Advanced Configuration					
<u>Administration Server</u>					
Wode Manager					
Managed Servers	μ				
Ulusters					
Server Templates					
Dynamic Servers					
Assign Servers to Clusters					
Coherence Clusters	•				
Help			< <u>B</u> ack	<u>N</u> ext > <u>Fini</u>	sh Cancel

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

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



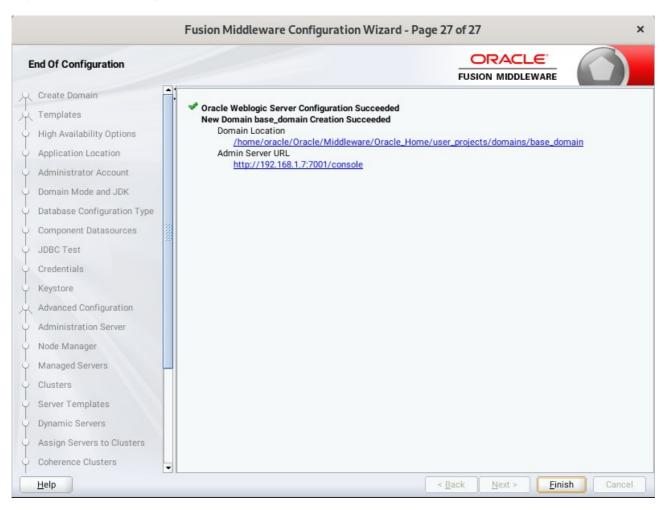
25). The Configuration Summary screen appears.

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

-	Fusion Middleware Cor	nfiguration Wizard - Pag	ge 26 of 27	7		×
Configuration Progress					A	
A Create Domain						
A Templates		100%				
High Availability Options	Copy Unprocessed Artifact	ts				
Application Location	OPSS Processing					
	OWSM Processing Security Processing					
	Artifacts Generation					
	String Substitution					
Database Configuration Type	Post Processing					
Component Datasources						
U JDBC Test						
Credentials						
↓ Keystore						
Advanced Configuration						
Administration Server						
V Node Manager						
Managed Servers						
Clusters						
Server Templates						
Oppnamic Servers						
Assign Servers to Clusters						
Coherence Clusters						
Help			< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

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

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



27). The End of Configuration screen appears.

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

2-3. Performing Post-Configuration Tasks

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

1). Running the Offline Configuration Command.

To run the offlineConfigManager command, do the following:

• Set the following environment variables to the right values.

DOMAIN_HOME JAVA_HOME

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

./setDomainEnv.sh

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

./offlineConfigManager.sh

	oracle@Dell5530:ome/idm/server/bin	۹	=	×
ora	cle@Dell5530:RACLE_SW/IDM/ × oracle@Dell5530:common/commo × oracle@Dell5530:ome/idm/serve	er/bin	×	•
racle_ oracle jects/ ****** ** Set ****** EXTRA_ LD_LIB	<pre>e@Dell5530:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin> export DOMAIN_HOME=/home/oracle/Oracl Home/user_projects/domains/base_domain/ e@Dell5530:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin> export JAVA_HOME=/home/ORACLE_SW/Java e@Dell5530:/home/oracle/Oracle/Middleware/Oracle_Home/idm/server/bin> /home/oracle/Oracle/Middleware/Oracle /domains/base_domain/bin/setDomainEnv.sh ************************************</pre>	/jdk1 _Home	.8.0 /use	_221/ r_pro
****** oracle	d SOA specific environment setup ************************************			

	oracle@Dell5530:ome/idm/server/bin	٩	=	×
oracle@	Dell5530:RACLE_SW/IDM/ × oracle@Dell5530:common/commo × oracle@Dell5530:ome/idm/serve	er/bin	×	-
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Initializi	ng WebLogic Scripting Tool (WLST)			
Welcome to	WebLogic Server Administration Scripting Shell			
Type help() for help on available commands			
Session st New Token To use the Trust", pr A new prop The values Configurat Token Issu New issuer	main> base_domainat path> /home/oracle/Oracle/Middleware/Oracle_Home/user_projects/domains/base_ arted for modification. Issuer Trust document named tokenissuertrustWLSbase_domain created. new document in the domain configuration,you must run the setWSMConfiguration command where category operty name = "name" and value = "tokenissuertrustWLSbase_domain". erty "name" within category "TokenIssuerTrust" has been added. "[tokenissuertrustWLSbase_domain]" have been added to property "name" within category "TokenIssuerTru ion properties associated with the context "/WLS/base_domain" has been created. er Trust document named "tokenissuertrustWLSbase_domain" selected in the session. - "www.oracle.com" added to the document. and trusted DN values have been updated successfully.	= "To		suer
Successful	ly configured property "keystore.type".			
Successful	ly configured property "location".			
Successful	ly configured property "keystore.sig.csf.key".			
Successful	ly configured property "keystore.enc.csf.key".			
(
⊡	oracle@Dell5530:ome/idm/server/bin	۹	=	×
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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&'

Ð		oracle@Dell5530	:ns/base_domain/bin		۹ ≡	×
oracle	@Dell5530:RACL ×	oracle@Dell5530:com ×	oracle@Dell5530:ome/i ×	oracle@Dell5530:n	s/ba ×	•
nm.out	&	racle/Middleware/Oracle_Home/us	er_projects/domains/base_domain	/bin> nohup ./start	NodeManage	er.sh
		racle/Middleware/Oracle_Home/us	er_projects/domains/base_domain	ı/bin> nohup: ignori	ng input a	and re
IDDEMGR_ LASSPAT tic.jar: ticle/Ora Oracle_ /home/ foracle/ Doracl	HOME is already set to H=/home/ORACLE_SW/Java/ /home/oracle/Oracle/Mic cle/Middleware/Oracle_H Home/wlserver/:/home/ ORACLE_SW/Java/jdk1.8.6 Oracle/Middleware/Oracl .security.jps.config=/H jse.xml -Dcommon.compor tootDirectory=/home/orac e.classloader.weblogic. /weblogic.policy -Dwebl 2020 11:22:49 PM GMT+6 ise_domain/nodemanager/f 2020 11:22:49 PM GMT+6	cacle/Middleware/Oracle_Home/us /home/oracle/Oracle/Middleware /jdk1.8.0_221/lib/tools.jar:/ho ddleware/Oracle_Home/wlserver/. Home/wlserver/modules/features/ foracle/Oracle/Middleware/Oracle 221/bin/java -server -Xms32 le_Home/wlserver//coherence - home/oracle/Oracle/Middleware/O hents.home=/home/oracle/Oracle/ cle/Oracle/Middleware/Oracle_Ho LaunchClassLoader -Djava.secur logic.nodemanager.JavaHome=/hom 08:000 < INFO> <loading domains<br="">hodemanager.domains> 08:000 < INFO> <upgrade> <settin 08:00> <info> <upgrade> <saving< th=""><th>/Oracle_Home/user_projects/doma me/oracle/Oracle/Middleware/Ora ./oracle_common/modules/thirdpa oracle.wls.common.nodemanager.j e_Home/wlserver/modules/feature ~Xx200m -Djdk.tls.ephemeralDHK Dbea.home=/home/oracle/Oracle/M racle_Home/user_projects/domain Middleware/Oracle_Home/oracle_c me/user_projects/domains/base_d ity.policy=/home/oracle/Oracle/ e/ORACLE_SW/Java/jdk1.8.0_221 w file: /home/oracle/Oracle/Middl g NodeManager properties versio</th><th>ins/base_domain/nod icle_Home/wlserver/s irty/ant-contrib-1.0 ar::/home/oracle/Or es/oracle.wls.common ieySize=2048 -Dcoher ifddleware/Oracle_Ho is/base_domain/confi common -Dopss.versio lomain -Djava.system Middleware/Oracle_H reblogic.NodeManager .eware/Oracle_Home/u in to 12.2.1.4.0></th><th>erver/lib/ b3.jar:/hc acle/Middl .grizzly.j eence.home= g/fmwconfi un=12.2.1.3 1.class.loa lome/wlserv iser_projec</th><td>ome/or leware jar =/home er/ ig/jps 3 -Dwe ader=c ver/se cts/do</td></saving<></upgrade></info></settin </upgrade></loading>	/Oracle_Home/user_projects/doma me/oracle/Oracle/Middleware/Ora ./oracle_common/modules/thirdpa oracle.wls.common.nodemanager.j e_Home/wlserver/modules/feature ~Xx200m -Djdk.tls.ephemeralDHK Dbea.home=/home/oracle/Oracle/M racle_Home/user_projects/domain Middleware/Oracle_Home/oracle_c me/user_projects/domains/base_d ity.policy=/home/oracle/Oracle/ e/ORACLE_SW/Java/jdk1.8.0_221 w file: /home/oracle/Oracle/Middl g NodeManager properties versio	ins/base_domain/nod icle_Home/wlserver/s irty/ant-contrib-1.0 ar::/home/oracle/Or es/oracle.wls.common ieySize=2048 -Dcoher ifddleware/Oracle_Ho is/base_domain/confi common -Dopss.versio lomain -Djava.system Middleware/Oracle_H reblogic.NodeManager .eware/Oracle_Home/u in to 12.2.1.4.0>	erver/lib/ b3.jar:/hc acle/Middl .grizzly.j eence.home= g/fmwconfi un=12.2.1.3 1.class.loa lome/wlserv iser_projec	ome/or leware jar =/home er/ ig/jps 3 -Dwe ader=c ver/se cts/do
e/Oracl Jul 20,	e_Home/user_projects/do 2020 11:22:49 PM GMT+0	omains/base_domain/nodemanager/ 08:00> <info> <loading domains<="" th=""><th>nodemanager.properties'></th><th></th><th></th><td></td></loading></info>	nodemanager.properties'>			
		nodemanager.domains> 08:00> <info> <loading identity<="" th=""><th>key store: FileName=kss://syst</th><th>em/demoidentity, Ty</th><th>pe=kss, Pa</th><td>assPhr</td></loading></info>	key store: FileName=kss://syst	em/demoidentity, Ty	pe=kss, Pa	assPhr
	2020 11:22:49 PM oracle	e.security.jps.internal.config. /Oracle/Middleware/Oracle_Home/			/jps-conf	ig-jse
ul 20, ARNING:	Bootstrap services are	e.security.opss.internal.runtim e used by OPSS internally and c configuration management inter	lients should never need to dir		otstrap ci	redent
Jul 20,	2020 11:22:50 PM GMT+0	08:00> <info> <loaded nodemanag<br="">ins/base_domain/nodemanager/nod</loaded></info>	er configuration properties fro	om '/home/oracle/Ora	cle/Middle	eware/

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

Ð	oracle@Dell5530:ns/base_domain/bin	Q =	×
oracle@Dell	5530: × oracle@Dell5530: × oracle@Dell5530: × oracle@Dell5530: × oracle@	Dell5530: ×	•
FMWProv: Inte PostInstallCC compositesPro getAllPluginG getAllPluginG Anonymous url Anonymous url Anonymous-url overtargets, .jar, /em/ecn es/.*, /em/fl /em/jsLibs/.* , /em/ovs/dis ifwkmobile/sk *, /em/jobred <jul 20,="" 2020<br="">gnoring featu <jul 20,="" 2020<br="">gnoring featu <jul 20,="" 2020<br="">ase_domain/AC <jul 20,="" 2020<br="">ase_domain/AC <jul 20,="" 2020<br="">nection with <jul 20,="" 2020<br="">onnection lis <jul 20,="" 2020<br="">infor protoco 1 for protoco 1 for protoco</jul></jul></jul></jul></jul></jul></jul>	<pre>gration Class called and was reloaded for me nfigIntegration:oracle_ias_farm target auth registration is done. vIntegration init racleHomes: ConnectionService is null config processing:/WEB-INF/config/anonymous-access-emcore.config s:[/em/IEsvgdetect.js.*, /em/LoginStatusServlet.*, /em/adf/.*, /em/adflib/.*, /em/afr/.*, /em, /em/cabo/.*, /em/console/help.*, /em/console/logon/.*, /em/consoleStatus.jsp, /em/dynamicImage /csa/CSA.mb, /em/ecm/csa/csabanner.gif, /em/emcli/custAttrib.*, /em/err/.*, /em/faces/logon/.* ashbridge.*, /em/formsapp/lib/formsRecorder.jar, /em/images/.*, /em/install/getAgentImage, /em , /em/jsLibsObf/.*, /em/login.jsp, /em/mapproxy.*, /em/mobile/core/uifwk/skins/.*, /em/ocamm// covertargets, /em/public/.*, /em/public_lib_download/.*, /em/redirect.*, /em/relocatetarget.*, ins/*, /em/servlet/GaugeServlet.*, /em/servlet/GraphServlet.*, /em/swlib/getfile, /em/VncViewed</pre>	<pre>bi/.*, /em/bmp .*, /em/ecm/cs /helppages/hel ib.*, /em/onet /em/sdkImpl/c r.jar, /em/wet ADF_FACES-3013 agerImpl> <bea otstrap creder re-existing nc y established MIN.> SUMING.> rvers : Resolv r Administrati ; on 192.168.1. ; on 192.168.1.</bea </pre>	<pre>sa/CSA slppag .p.*, cime.* core/u svcs. co> <i0000 7:700<="" a="" b="" c="" con="" oun="" pre="" ring="" tials=""></i0000></pre>

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 Enterprise Manager Console.

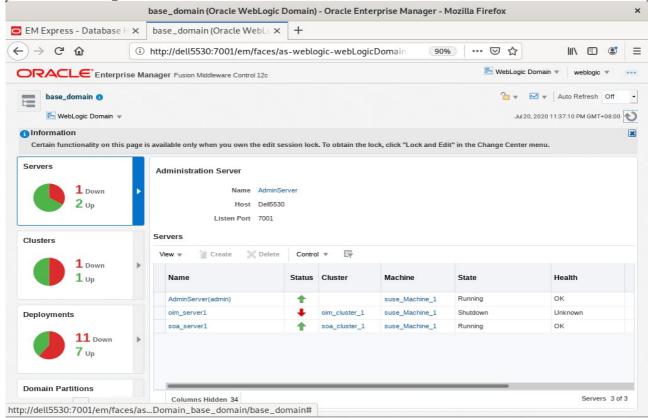
Login Page:

	Sign in - Oracle F	Enterprise Manager - Mozilla Fire	fox		×
🖸 EM Express - Database 🗄 🗙	Sign in - Oracle Enterprise $\mathbb{M} imes$	+			
$\leftarrow \rightarrow$ C $\textcircled{0}$	🔏 http://dell5530:7001/em/faces	s/targetauth/emasLogin?targe	90%) 🗵 🏠	III\ 🗊 😅	≡
		D E ENTERPRISE MANA MIDDLEWARE CONT			
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Home Page:

EM Express - Database 🗏 🗙	base_domair	n (Oracle WebLo 🗙	+						
) → C @ (() http://dell553	0:7001/em/faces/as	s-weblo	gic-webLogic	Domain 909	*) ☆)	III\ 🗊	٢
	Manager Fusion Mid	idleware Control 12c				KebLogi	ic Domain 🔻	weblogic 🖲	-
base_domain ()						1 •	🖂 👻 Au	to Refresh	Dff
WebLogic Domain 👻						Jul	120, 2020 11:31	:29 PM GMT+0	00:80
Information									
Certain functionality on this pag	e is available only wi	hen you own the edit se	ssion lock	. To obtain the lo	ck, click "Lock and Ed	lit" in the Change Cente	er menu.		
Servers	Administratio	on Server							
	, annistration								
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1 Up		Host Dell5530							
		Listen Port 7001							
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	View 💌	Create 🔀 Delete			Machine suse_Machine_1	State Running	Не		
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2 Down	View Name AdminServer oim_server1	Create Delete	Status	Cluster oim_cluster_1	suse_Machine_1 suse_Machine_1	Running Shutdown	OK Unk	nown	
2 Down	View Name AdminServer oim_server1	Create Delete	Status	Cluster oim_cluster_1	suse_Machine_1 suse_Machine_1	Running Shutdown	OK Unk	nown	

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



EM Express - Database H ×	base_domain (Oracle WebLo	× +				
) → ℃ @	http://dell5530:7001/em/face	es/as-weblo	gic-webLogic	Domain 909	* 🛛 🕁	III\ 🗉 📽
	Anager Fusion Middleware Control 12c				🖶 WebLogic	Domain 🔻 weblogic 🔻
base_domain ()					1 •	🖂 💌 Auto Refresh Off
WebLogic Domain 👻					Jul	20, 2020 11:52:28 PM GMT+08:00
1 Information						
Certain functionality on this page	is available only when you own the ed	dit session lock	. To obtain the lo	ck, click "Lock and Ec	lit" in the Change Cente	r menu.
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2 up	Listen Port 700 Servers View * Create & Del Name AdminServer(admin) oim_server1	01 lete Contro Status	Cluster oim_cluster_1	suse_Machine_1 suse_Machine_1	Running Running	ок ок

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

2). Access to Administration Server Console

Login	Page:
	. "ge.

Oracle WebLogic Serv	er Administration Console - Mozilla	a Firefox					×
EM Express - Database ⊢ × base_domain (Oracle WebL∈ ×	Oracle WebLogic Server Adr 🗙	+					
← → C û û // http://dell5530:7001/console/	login/LoginForm.jsp	90% 🛇		lii1		٢	≡
ORACLE WebLogic Server Administration	Console 12 <i>c</i>						
124		Log in to work with the We Username: Password:	Welcome bLogic Server domain weblogic				
					Login		
WebLogic Server Version: 12.2.1.4.0 Copyright (c) 1996,2019, Oracle and/or its affiliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks	of their respective owners.						

Home Page:

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	dministration Console 12c			õ
Change Center	🏠 Home Log Out Preferences 🔤 Record Help	p 🔍	Welcome, weblogic Connected to: base_	domain
View changes and restarts	Home			
Click the Lock & Edit button to modify, add or	Home Page			
delete items in this domain.	Information and Resources			— UI
Lock & Edit	Helpful Tools	General Information		- 18
Release Configuration	Configure applications	Common Administration Task Descriptions		- 18
Domain Structure	 Configure GridLink for RAC Data Source 	 Read the documentation 		- UI
base domain	 Configure a Dynamic Cluster 	 Ask a question on My Oracle Support 		- UI
Domain Partitions	 Recent Task Status 			- UI
Environment	 Set your console preferences 			- UI
Deployments Services	 Oracle Enterprise Manager 			- UI
Security Realms	Domain Configurations			— UI
Interoperability				
E − Diagnostics	Domain	Resource Group Templates	Interoperability	- UI
	• Domain	 Resource Group Templates 	WTC Servers	- UI
			Jolt Connection Pools	- UI
	Domain Partitions	Resource Groups		- UI
	Domain Partitions	Resource Groups	Diagnostics	- UI
How do I	 Partition Work Managers 		Log Files	- UI
		Deployed Resources	Diagnostic Modules	- UI
 Search the configuration 	Environment	Deployments	 Built-in Diagnostic Modules 	- 11
Use the Change Center	Servers		Diagnostic Images	
Record WLST scripts	Clusters	Services	Request Performance	
Change Console preferences	 Server Templates 	Messaging	Archives	
Manage Console extensions Monitor servers	 Migratable Targets 	 JMS Servers 	Context	
Monitor servers	Coherence Clusters	 Store-and-Forward Agents 	• SNMP	
System Status	Machines	 JMS Modules 	Interceptors	
-,	Virtual Hosts	 Path Services 	Charts and Graphs	
Health of Running Servers as of 11:53 PM	Virtual Targets	 Bridges 		
Failed (0)	Work Managers	Data Sources	Monitoring Dashboard	
Oritical (0)	 Concurrent Templates 	 Persistent Stores 		

		Summary of Serve	ers - base_doma	in - WLS Console ·	- Mozil	la Firefox	C				,										
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View changes and restarts	Hom	ne >Summary of Servers																			
Click the Lock & Edit button to modify, add or	Summ	nary of Servers																			
delete items in this domain.	Conf	figuration Control																			
Lock & Edit											_										
Release Configuration	As	erver is an instance of WebLogic	Server that runs in its own	Java Virtual Machine (JVM)) and has it	ts own configu	ration.														
Domain Structure		is page summarizes each server t				-															
bomain structure	11.00	o page ourmanices each server	nat has been conligated	in the current webbogie deri	rei donnai																
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Security Realms Interoperability				I the buttons on this page.																	
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Security Realms Originostics How do L Create Managed Servers Clone servers Objete Managed Servers Delete Managed Servers Start and stop servers View objects in the JNDI tree		rvers (Filtered - More Columns ick the Lock & Edit button in the Ch New Clone Delete Name & AdminServer(admin) oim_server1 iso_server1	Type Configured Configured	Cluster oim_cluster_1	suse_Mac	chine_1	RUNNING	Неаlth	Lister 7001 1400 7003	n Port											

Viewing the summary of servers:

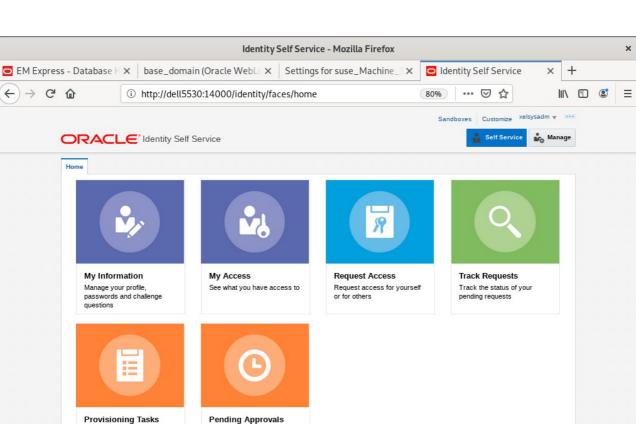
Verify that the Admin Server can connect to the node manager running on your machine. Environments -> Machines -> <your machine> -> Monitoring. The status should show: Reachable Settings for suse_Machine_1- base_domain - WLS Console - Mozilla Firefox ×

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	Settings for suse_Machine_1 - base_domain - WLS Cor	nsole - Mozilla Firefox
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	dministration 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 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 Nod	le Manager instance configured for this machine.
base_domain	Status: Reachable	Current status of this Node Manager. More Info
Servers ClustersCoherence ClustersResource GroupsResource Group TemplatesResource Group Templates	Version: 12.2.1.4.0	Version string returned from the Node Manager. More Info
Machines Virtual Hosts Virtual Targets Work Managers Concurrent Templates Resource Management		
How do I	1	
Monitor Node Manager status Monitor Node Manager logs Create and configure machines		
System Status 🖂		
Health of Running Servers as of 11:56 PM		

3)	. Access t	o OIM	Identity	Self \$	Service –	URL:h	ttp://host:	port/identity

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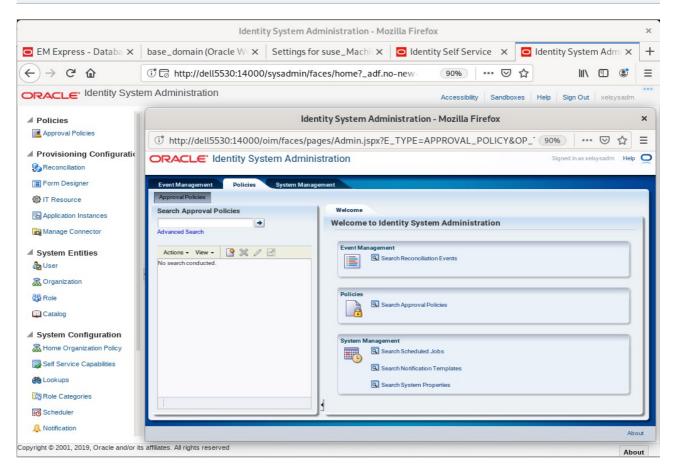
Take action on requests assigned to you for approvals

Take action on fulfillment tasks assigned to you

4). Access to Olivi IC	aentity System Auministration Console –	URL. <u>IIIIp.//IIOSI.port/</u>	sysaumin								
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🔁 EM Express - Databa 🗙	base_domain (Oracle $W(\textbf{X} \mid Settings \text{ for suse_Machi}(\textbf{X} \mid \textbf{X}))$	O Identity Self Service ×	Identity System Administ ×	+							
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4). Access to OIM Identity System Administration Console - URL: http://host:port/sysadmin

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Oracle Fusion Middleware 12c on SLES 15 SP2

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

Welcome to the Oracle SOA Platform on WebLogic - Mozilla Firefox	×
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$\leftarrow \rightarrow \mathbb{C}$	☆ III\ 🗊 🗏
Welcome to the Oracle SOA Platform on WebLogic	Links
SOA Version: v12.2.1.4.0 - MAIN_190828.0353.3300 WebLogic Server 12.2.1.4.0 (12.2.1.4.0) Running on: soa_server1	<u>SOA Composer</u> <u>BPM Worklist</u>
The following composites are currently deployed:	
1. default/AutoApprovall1.0*soa_837a917e-f33d-4dfd-a675-e1ef5fd93b88	
 <u>Test RequestApprovalService</u> 3. default/CertificationOverseerProcessI2.0*soa_720e8a46-fb27-46fe-b67b-2bfabe2dd46e <u>Test CertificationTaskService</u> 4. default/CertificationProcessI2.0*soa_16666342-d04c-4e32-a6d5-173521dd036b 	
 CertificationTaskService 5. default/DefaultOperationalApproval!5.0*soa_33e867f7-0975-43b0-818a-8db2340e44b5 Test RequestApprovalService 	
6. default/DefaultRequestApprovall6.0*soa_82d7205f-c929-4e92-9d2d-7d12ffad000f < <u>Test RequestApprovalService</u>	
7. default/DefaultRoleApprovall3.0*soa_488b54ba-5003-4f4f-9164-aa88bfd02708	
 <u>Test RequestApprovalService</u> 9. default/DisconnectedProvisioning!2.0*soa_e42de6a7-5944-4fd4-95ad-9bdc6ef9fab4 	
 <u>Test manualprovisioningprocess_client</u> 10. default/identityAuditRemediationII.0*soa_3c5292f2-4fb2-4984-95fb-767305d3ce2f Test bit the bit base bit state Occurrent of the second se	
 <u>Test IdentityAuditRemediationService</u> 11. default/OAACGRoleAssignSODCheck!1.0*soa_66417375-3036-4692-845c-19e5eedcd64a <u>Test RequestApprovalService</u> 	
12. default/ProvideInformation!3.0*soa_4daca0b0-d84c-4539-a045-bad39a0f7085	
 <u>Test RequestApprovalService</u> 13. default/RequesterManagerApproval!3.0*soa_964adced-04ba-40ec-82b5-d4c077f97c0b <u>Test RequestApprovalService</u> 	

Sign In - Mozilla Firefox × + 🖸 EM Express - Databa 🗙 | base_domain (Oracle W 🛪 | Settings for suse_Machi 🛪 | Welcome to the Oracle S 🗙 | Sign In × \leftarrow \rightarrow \bigcirc a⑥ ⅔ http://dell5530:7003/soa/composer/faces/login 90% … 🛛 🟠 III\ 🗉 🔮 \equiv SOA COMPOSER weblogic Sign In ORACLE Copyright 2004, 2019, Oracle and/or its affiliates. All rights reserved. Accessibility

Oracle Fusion Middleware 12c on SLES 15 SP2

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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

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	cle/Oracle/Middleware/O	racle_Home/idm/designconsole> e	export JAVA_HOME=/home/ORACLE_	_SW/Java/jdk1.8.0_2
21/ oracle@Dell5530:/home/ora openjdk version "11.0.7"		racle Identity Manager Design Consol	le × ersion	
OpenJDK Runtime Environme OpenJDK 64-Bit Server VM	nt (build 11.0.7	Welcome To		
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21/ oracle@Dell5530:/home/orad	cle/Oracle/Middl O)racle Identity Manager [Design Console ×	ersion		
openjdk version "11.0.7" :			-			
OpenJDK Runtime Environmen OpenJDK 64-Bit Serven	nt (Build 11.0.7	Welcome To				
oracle@Dell5530:/home		Alert		×		
oracle@Dell5530:/home Jul 21, 2020 12:11:06 [NFO: Config file mod	 Use Design console for No New Connector development New ICF based connector of process. Refer product docu Application installed via new Self-Service UI. Java Task & be done using Application 	n-ICF based connectors if you nt following Non-ICF manner I development should use new immentation for simplified Appli wizard would be managed th Pre-populate Adapter related in-boarding wizard. Design Co chema Attribute, Process Task	to continue ? are upgrading from previo- nas been deprecated. Application Template based cation On-boarding introd rough Application On-boar sustomization for Template nsole is still operational be	l install uced in 12c release. ding wizard available on based application should cause of backward		

Click on Login. Then click Yes to confirm.

Viewing OIM Design Console.

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 SP2. You can extend this topology to make it highly available and secure so it is suitable for a production system.

Thank you ! SUSE ISV Engineering Team Oct 16th, 2020 https://www.suse.com