

Oracle Fusion Middleware 14c on SUSE Linux Enterprise Server 15 (SP7) for x86-64

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Introduction

This document provides details on installing and configuring Oracle Fusion Middleware 14c Components on SUSE Linux Enterprise Server 15 SP7. Details are provided for Intel x86-64 versions of both Oracle FMW 14c and SUSE Linux Enterprise Server 15 SP7. Similar steps apply to other platforms (x86, ia64, System z, etc.).

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



System Requirements and Specifications

Hardware Requirements

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

More details please refer to the System Requirements and Specifications document for Oracle Fusion Middleware 14c (14.1.2.0.0).

(<https://docs.oracle.com/en/middleware/fusion-middleware/14.1.2/sysrs/system-requirements-and-specifications.html>)

Software Requirements

SUSE

- *SUSE Linux Enterprise Server 15 SP7 GM (x86-64)*
(<https://www.suse.com/download/sles/>)

Oracle

- *Database 19c (19.3.0.0.0) (x86_64) - (LINUX.X64_193000_db_home.zip)*
(<https://www.oracle.com/downloads/#category-database>)
- *Patch 37642901: DATABASE RELEASE UPDATE 19.27.0.0.0*
- *Patch 6880880: OPatch utility 12.2.0.1.46 for DB 19.0*
(<https://support.oracle.com>)
- *Java SE Development Kit 17 (jdk-17.0.13_linux-x64_bin.tar.gz)*
(<https://www.oracle.com/downloads/#category-java>)
- *WebLogic Server 14c (14.1.2.0.0) (V1045131-01.zip)*
(<https://www.oracle.com/downloads/#category-middleware>)
- *WebLogic Server 14c (14.1.2.0.0) (x86_64) - (Fusion Middleware Infrastructure Installer - V1045135-01.zip)*
(<https://www.oracle.com/downloads/#category-middleware>)
- *Forms and Reports 14c (14.1.2.0.0) (x86_64) - (V1045121-01.zip)*
(<https://www.oracle.com/downloads/#category-middleware>)

- *WebTier 14c Oracle HTTP Server (14.1.2.0.0) - (x86_64)*
(<https://www.oracle.com/downloads/#category-middleware>)
- *WebCenter Portal 14c (14.1.2.0.0) - (V983398-01.zip)*
(<https://www.oracle.com/downloads/#category-middleware>)
- *SOA Suite 14c (14.1.2.0.0) – (V1045350-01.zip)*
(<https://www.oracle.com/downloads/#category-middleware>)
- *Oracle Identity and Access Management 14c (14.1.2.1.0) – (Generic Quick Installer)*
(<https://www.oracle.com/downloads/#category-middleware>)

Testing Machine Information

Dell PowerEdge R750

CPU: 2 * Intel Xeon Gold 5318Y 2.1G, 24C/48T

RAM: 128GB GB

NIC: 2 * Intel Ethernet Converged Network Adapter X710-DA2 (10GbE SFP+, Dual Port)

Local HDD: 2 * SSD (1TB, NVMe)

OS: SUSE Linux Enterprise Server 15 SP7 GM (x86-64) - Kernel version: 6.4.0-150700.51-default

Dell Laptop Precision 5530

CPU: 6 * Intel(R) Core(TM) i7-8850H CPU @ 2.60GHz

RAM: 32 GB

NIC: 2

Local HDD: 1TB + 512GB

OS: SUSE Linux Enterprise Server 15 SP7 GM (x86-64) - Kernel version: 6.4.0-150700.51-default

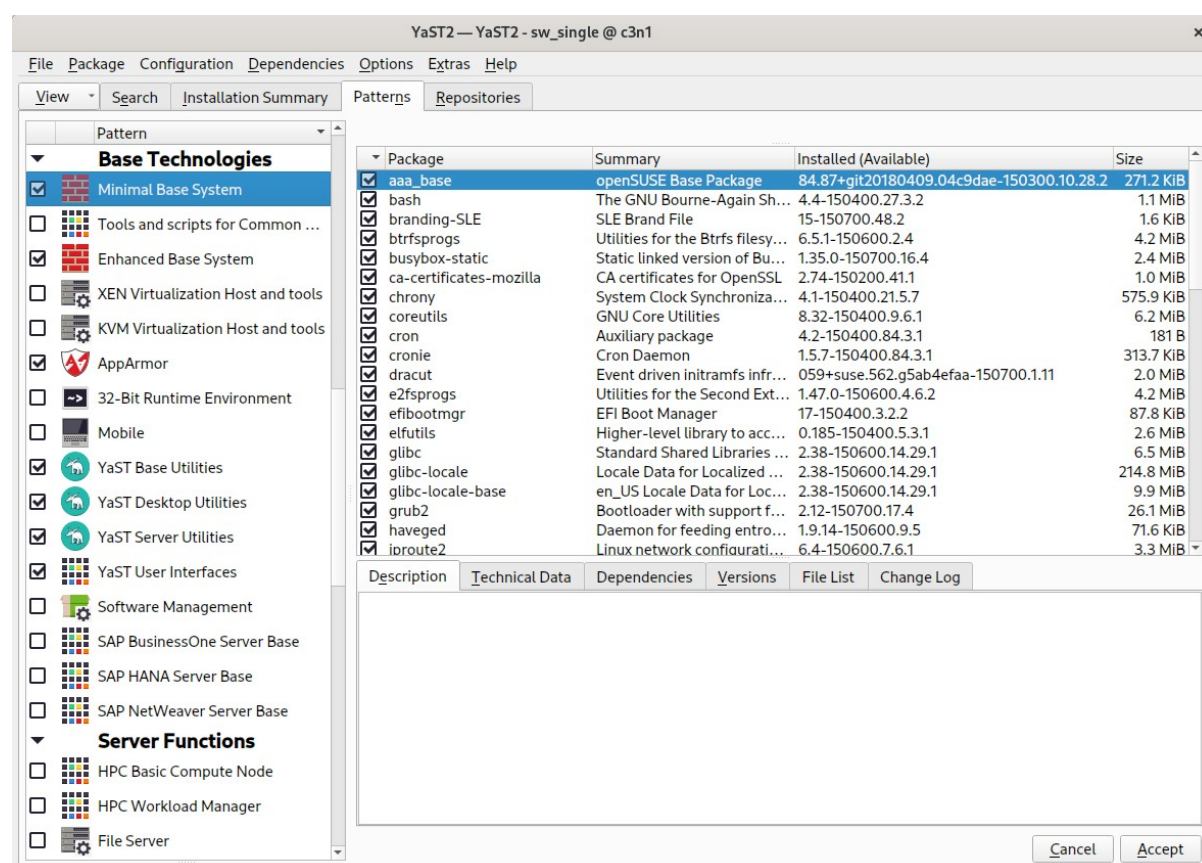


Prerequisites

1. Installing SUSE Linux Enterprise Server 15 SP7

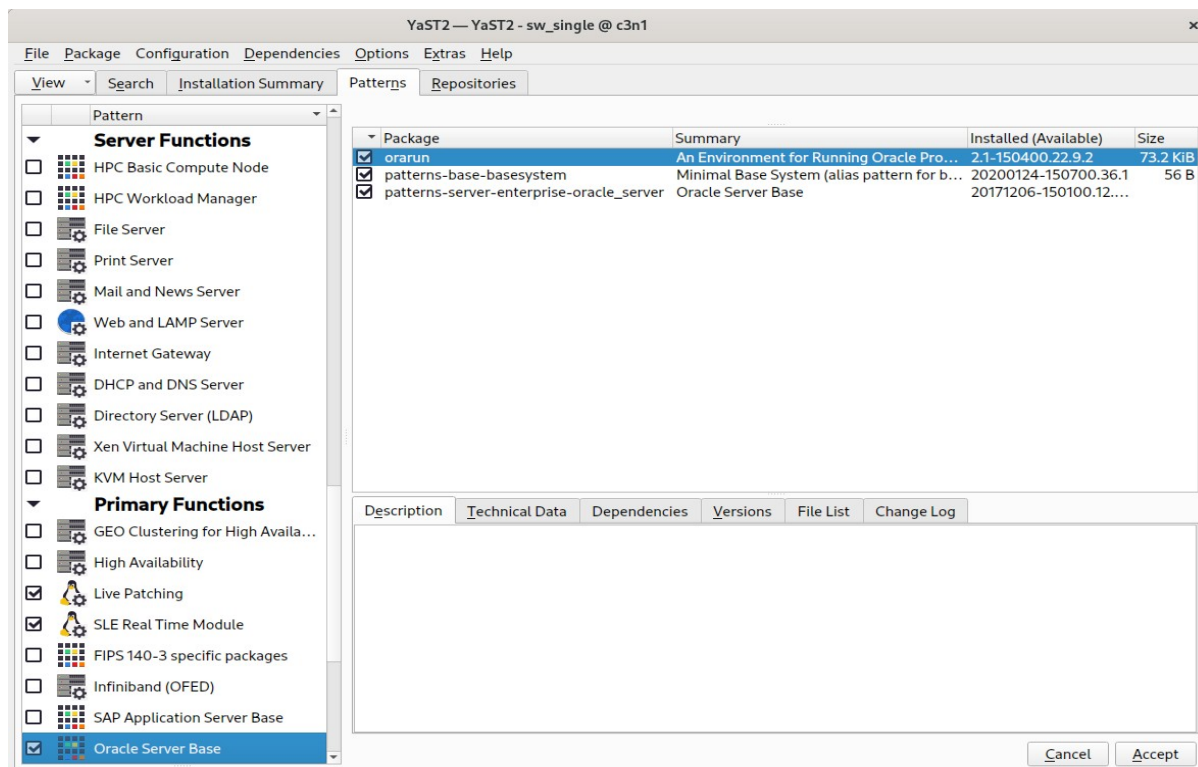
1-1. Install SUSE Linux Enterprise Server 15 SP7 on your testing machine. To do so, follow the instructions in the official SUSE Linux Enterprise Server documentation at: <https://www.suse.com/documentation/>.

Figure 1-1 Software Installed as shown below

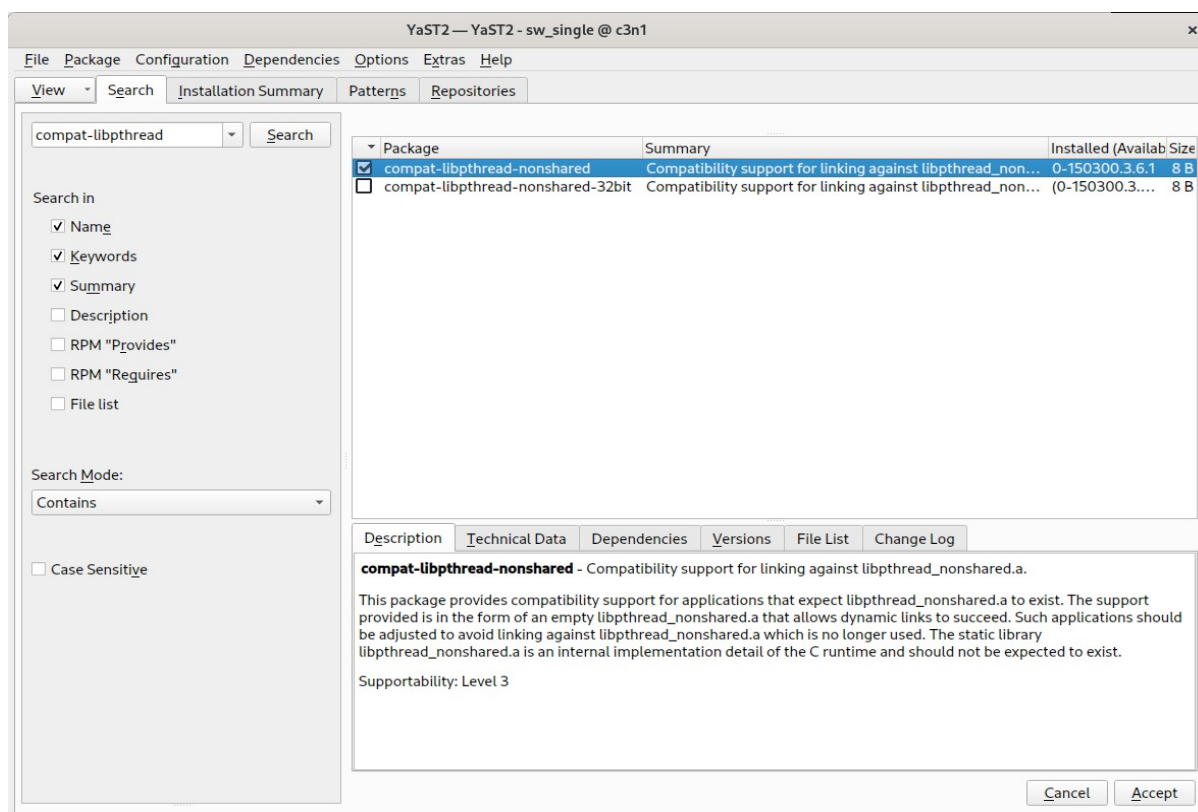


In Yast, select the patterns you need. Make sure you select the patterns and packages required to run Oracle products.

Figure 1-2 Software Installed as shown below



(Note: Please make sure that 'compat-libpthread-nonshared' is installed.



)

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

Figure 1-3 OS release information and kernel version

```
oracle@c3n1:~> more /etc/os-release
NAME="SLES"
VERSION="15-SP7"
VERSION_ID="15.7"
PRETTY_NAME="SUSE Linux Enterprise Server 15 SP7"
ID="sles"
ID_LIKE="suse"
ANSI_COLOR="0;32"
CPE_NAME="cpe:/o:suse:sles:15:sp7"
DOCUMENTATION_URL="https://documentation.suse.com/"
oracle@c3n1:~> uname -a
Linux c3n1 6.4.0-150700.51-default #1 SMP PREEMPT_DYNAMIC Wed Apr 30 21:35:43 UTC 2025 (6930611/lp) x86_64 x86_64 x86_64 GNU/Linux
oracle@c3n1:~> █
```

1-2. Special Startup Requirements.

1). To set the SHMMAX kernel parameter.

Change the value of SHMMAX to 16531791872 by including the following line in `/etc/sysctl.conf`:

```
kernel.shmmax = 16531791872
```

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 nfile 4096
* hard nfile 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.

3). Remove `/etc/profile.d/oracle.sh` and `/etc/profile.d/alljava.sh` as root.

```
#mv /etc/profile.d/oracle.sh /etc/profile.d/oracle.sh.bak
#mv /etc/profile.d/alljava.sh /etc/profile.d/alljava.sh.bak
```

2. Installing Oracle Database 19c

2-1. Log in to the target system (SUSE Linux Enterprise Server 15 SP7 64-bit OS) as a non-admin user. Download Oracle Database 19c x86_64 from <https://www.oracle.com/downloads/#category-database>.

2-2. Oracle Database 19c is officially certified for SUSE Linux Enterprise Server 15(4.12.14-23-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@c3n1:~> export ORACLE_HOME=/home/oracle/db_19c/
oracle@c3n1:~> export ORACLE_SID=sles
oracle@c3n1:~> /home/oracle/db_19c/bin/sqlplus /nolog

SQL*Plus: Release 19.0.0.0.0 - Production on Thu Sep 4 16:14:44 2025
Version 19.27.0.0.0

Copyright (c) 1982, 2024, Oracle. All rights reserved.

SQL> conn sys/ [REDACTED]@c3n1:1521/sles as sysdba
Connected.
SQL> show sga

Total System Global Area 4.0265E+10 bytes
Fixed Size 37601016 bytes
Variable Size 6979321856 bytes
Database Buffers 3.3152E+10 bytes
Redo Buffers 96616448 bytes
SQL> show pdbs

  CON_ID CON_NAME                                OPEN MODE RESTRICTED
  -----
        2 PDB$SEED                                READ ONLY NO
        3 SLES_PDB                                READ WRITE NO
SQL> select DBMS_XDB_CONFIG.GETHTTPSPORT from dual;

GETHTTPSPORT
-----
          5500

SQL> exit
Disconnected from Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.27.0.0.0
oracle@c3n1:~> █
```

Figure 2-2 Start the Database listener

```

oracle@cn1:~> /home/oracle/db_19c/bin/lsnrctl status
LSNRCTL for Linux: Version 19.0.0.0.0 - Production on 04-SEP-2025 16:17:58
Copyright (c) 1991, 2025, Oracle. All rights reserved.

Connecting to (ADDRESS=(PROTOCOL=tcp)(HOST=)(PORT=1521))
STATUS of the LISTENER
-----
Alias          LISTENER
Version        TNSLSNR for Linux: Version 19.0.0.0.0 - Production
Start Date     31-JUL-2025 23:20:58
Uptime         34 days 16 hr. 56 min. 59 sec
Trace Level    off
Security       ON: Local OS Authentication
SNMP           OFF
Listener Parameter File /home/oracle/grid_19c/network/admin/listener.ora
Listener Log File   /home/oracle/grid_19c_base/diag/tnslsnr/c3n1/listener/alert/log.xml
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=LISTENER)))
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=10.208.176.111)(PORT=1521)))
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=10.208.176.15)(PORT=1521)))
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=c3n1.oraclelab.bej.suse.com)(PORT=5500))(Security=(my_wallet_directory=/home/oracle/db_19c/admin/sles/xdw_wallet))(Presentation=HTTP)(Session=RAW))
Services Summary...
Service "3b3817f192f779abe0630db0c80ad812" has 1 instance(s).
  Instance "sles1", status READY, has 1 handler(s) for this service...
Service "86b637b62fd77a65e053f705e80a27ca" has 1 instance(s).
  Instance "sles1", status READY, has 1 handler(s) for this service...
Service "sles" has 1 instance(s).
  Instance "sles1", status READY, has 1 handler(s) for this service...
Service "slesXDB" has 1 instance(s).
  Instance "sles1", status READY, has 1 handler(s) for this service...
Service "sles_pdb" has 1 instance(s).
  Instance "sles1", status READY, has 1 handler(s) for this service...
The command completed successfully
oracle@cn1:~>

```


Figure 2-3 Access to Oracle Database 19c Enterprise Manager

The image shows two screenshots of the Oracle Enterprise Manager Database Express interface.

Top Screenshot: Login Page

The browser address bar shows the URL: `https://c3n1:5500/em/login?returnUrl=/em/`. The page title is "Sign In To Oracle Enterprise Manager". The main heading is "ORACLE ENTERPRISE MANAGER DATABASE EXPRESS". The login form includes fields for Username (pre-filled with "sys"), Password (masked with dots), and Container Name. A "Log in" button is present. The Oracle logo is at the bottom right, and the copyright notice "Copyright 2013, 2020, Oracle and/or its affiliates. All rights reserved." is at the bottom.

Bottom Screenshot: Database Home Dashboard

The browser address bar shows the URL: `https://c3n1:5500/em/shell`. The page title is "Oracle Cloud Database Express". The main heading is "ORACLE Enterprise Manager Database Express". The dashboard shows the following information:

- Database Home:** SLES (19.27.0.0.0), Performance, Storage.
- Time Zone:** Browser (GMT+08:00).
- Status:**
 - Up Time: 34 days, 20 hours, 1 minutes, 45 seconds
 - Type: RAC - 4 Instance(s) up
 - CDB (1 PDB(s))
 - Version: 19.27.0.0.0 Enterprise Edition
 - Platform Name: Linux x86 64-bit
 - Archiver: Stopped
 - Last Backup Time: N/A
 - Incident(s): 0
- Performance:** Activity, Services, Containers, Instances. A line graph shows activity over time (03:22:20 PM to 04:20:20 PM). The legend includes Other, Administrative, User I/O, and CPU.
- Resources:**
 - Host CPU: A bar chart showing CPU usage.
 - Active Sessions: A bar chart showing session counts.
 - Memory: A bar chart showing memory usage (372.5 GB total, 326 GB used).
 - Data Storage: A bar chart showing storage usage (7.5 GB total, 6.5 GB used).

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

Database Configuration Assistant - Create a database - Step 2 of 14

Select Database Creation Mode

19c ORACLE Database

Database Operation

Creation Mode

Deployment Type

Database Identification

Storage Option

Fast Recovery Option

Database Options

Configuration Options

Management Options

User Credentials

Creation Option

Summary

Progress Page

Finish

Typical configuration

Global database name: sles

Storage type: Automatic Storage Management (ASM)

Database files location: +SUSEDATA2/{DB_UNIQUE_NAME} Browse...

Fast Recovery Area (FRA): +SUSEDATA1 Browse...

Database character set: AL32UTF8 - Unicode UTF-8 Universal character set

Administrative password:

Confirm password:

☒ Create as Container database

Pluggable database name: sles_pdb

Advanced configuration

Help

< Back Next > Finish Cancel

)

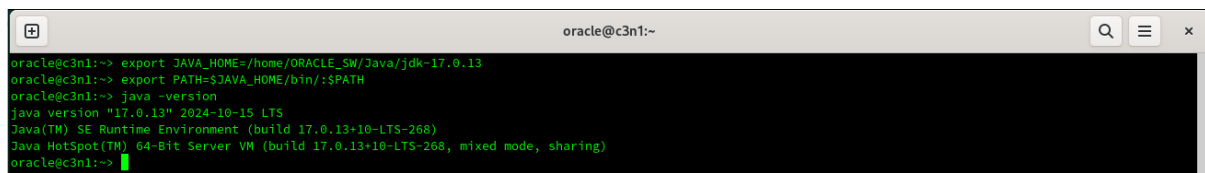
3. Installing Java

3-1. Log in to the target system (SUSE Linux Enterprise Server 15 SP7 64-bit OS) as a non-admin user. Download Java SE Development Kit 17 (jdk-17.0.13_linux-x64_bin.tar.gz) from <https://www.oracle.com/downloads/#category-java>.

(Note: For Fusion Middleware products 14c (14.1.2.0.0), the certified JDK is 17.0.12 and later.)

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

Figure 2-1 Java information

A terminal window titled 'oracle@c3n1:~' with search, menu, and close icons in the title bar. The terminal shows the following commands and output:

```
oracle@c3n1:~> export JAVA_HOME=/home/ORACLE_SW/Java/jdk-17.0.13
oracle@c3n1:~> export PATH=$JAVA_HOME/bin:$PATH
oracle@c3n1:~> java -version
java version "17.0.13" 2024-10-15 LTS
Java(TM) SE Runtime Environment (build 17.0.13+10-LTS-268)
Java HotSpot(TM) 64-Bit Server VM (build 17.0.13+10-LTS-268, mixed mode, sharing)
oracle@c3n1:~>
```

Oracle Fusion MiddleWare 14c Installation and Configuration

Oracle WebLogic Server software

1. Installing Oracle WebLogic Server software

1-1. Prerequisites:

Installation of Oracle WebLogic Server requires:

- Oracle JDK 17.0.12 or later is installed.

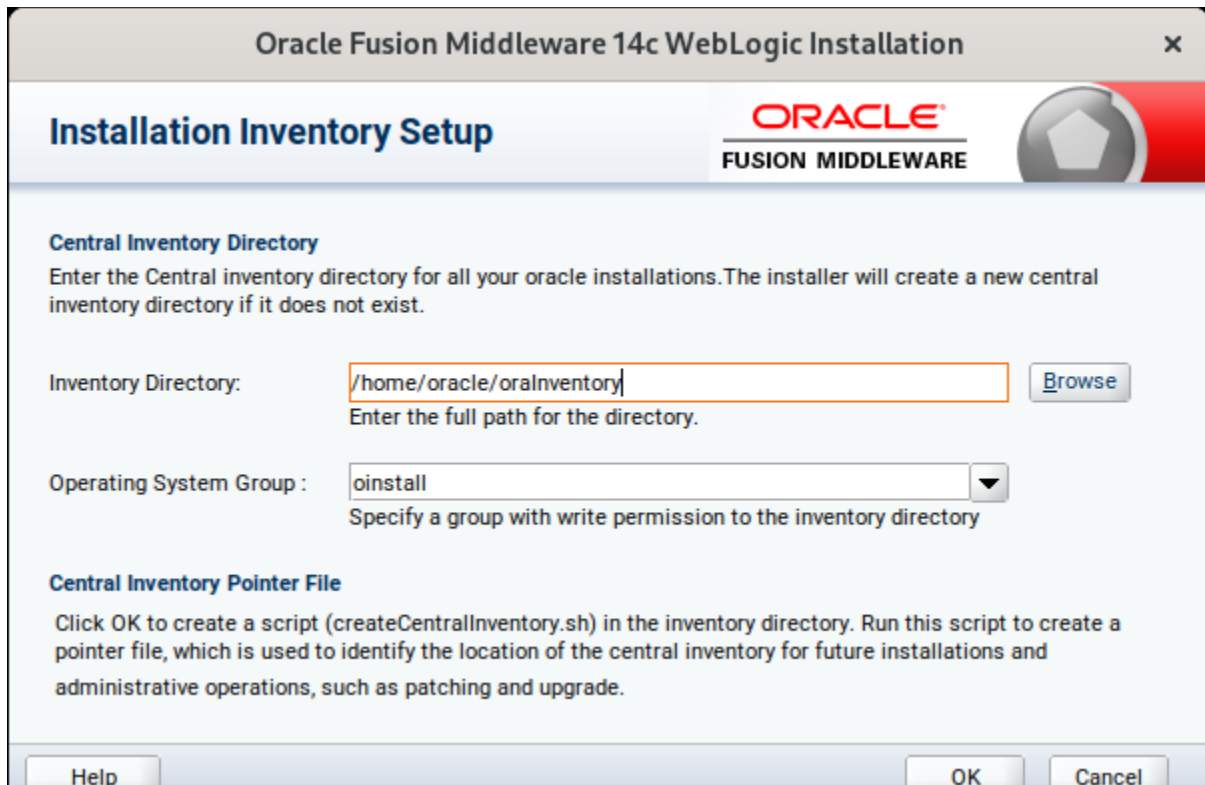
1-2. Log in to the target system (SUSE Linux Enterprise Server 15 SP7 64-bit OS) as a non-admin user. Download the Oracle WebLogic Server 14c (14.1.2.0.0) from <https://www.oracle.com/downloads/#category-middleware>.

(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 (V1045131-01.zip) file and launch the installation program by running '**java -jar fmw_14.1.2.0.0_wls.jar**'

For the actual installation, follow the steps below:

1). Installation Inventory Setup.



The image shows a screenshot of the 'Oracle Fusion Middleware 14c WebLogic Installation' window, specifically the 'Installation Inventory Setup' tab. The window has a title bar with the text 'Oracle Fusion Middleware 14c WebLogic Installation' and a close button. The main content area is divided into sections. The first section is 'Central Inventory Directory', which includes instructions: 'Enter the Central inventory directory for all your oracle installations. The installer will create a new central inventory directory if it does not exist.' Below this, there is a text input field for 'Inventory Directory:' containing the path '/home/oracle/orainventory', a 'Browse' button, and a note: 'Enter the full path for the directory.' The second section is 'Operating System Group:', which has a dropdown menu showing 'oinstall' and a note: 'Specify a group with write permission to the inventory directory'. The third section is 'Central Inventory Pointer File', which includes instructions: 'Click OK to create a script (createCentralInventory.sh) in the inventory directory. Run this script to create a pointer file, which is used to identify the location of the central inventory for future installations and administrative operations, such as patching and upgrade.' At the bottom of the window, there are three buttons: 'Help', 'OK', and 'Cancel'.

Oracle Fusion Middleware 14c WebLogic Installation

Installation Inventory Setup

Central Inventory Directory
Enter the Central inventory directory for all your oracle installations. The installer will create a new central inventory directory if it does not exist.

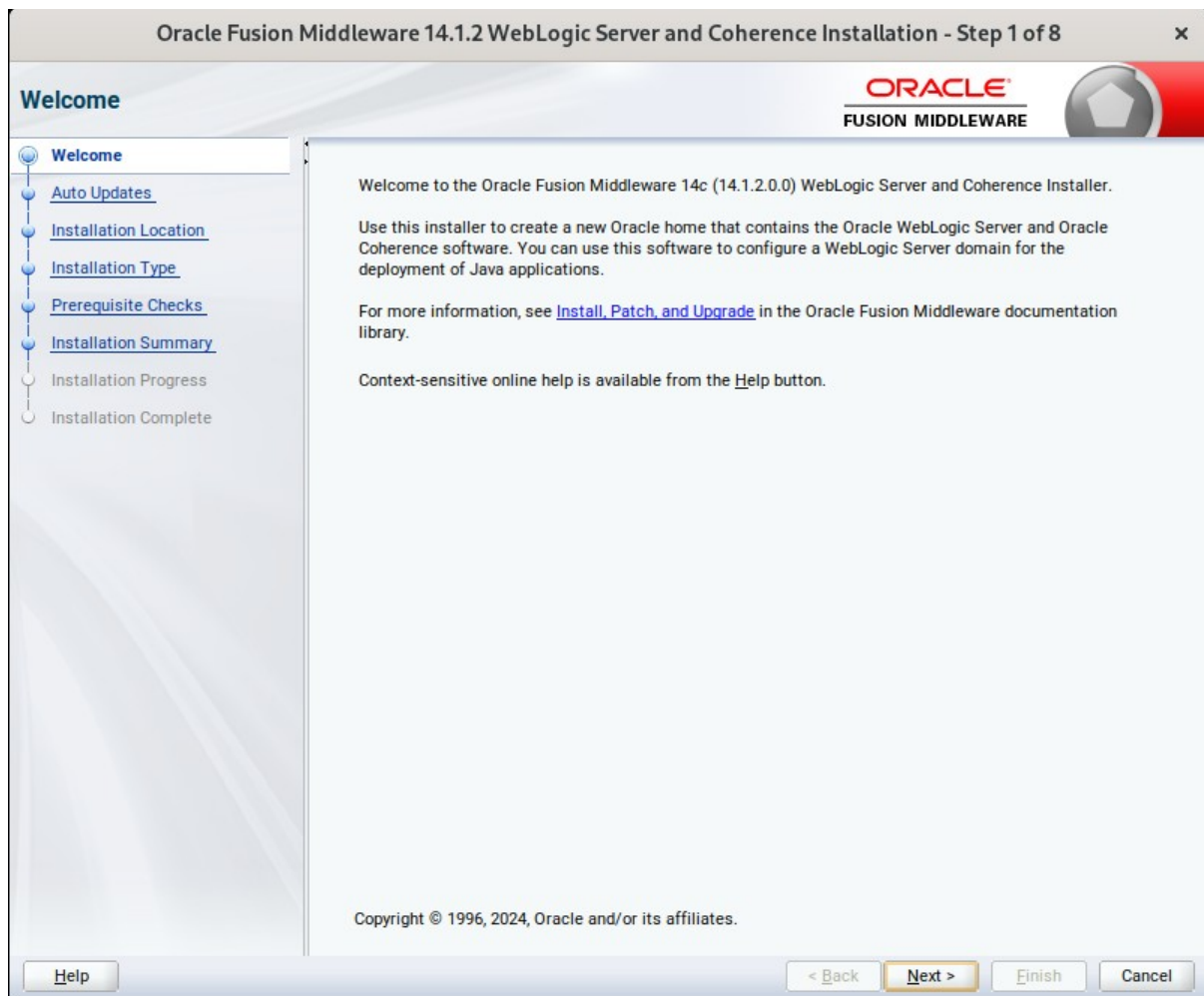
Inventory Directory:
Enter the full path for the directory.

Operating System Group :
Specify a group with write permission to the inventory directory

Central Inventory Pointer File
Click OK to create a script (createCentralInventory.sh) in the inventory directory. Run this script to create a pointer file, which is used to identify the location of the central inventory for future installations and administrative operations, such as patching and upgrade.

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.



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

3). Auto Updates.

Oracle Fusion Middleware 14.1.2 WebLogic Server and Coherence Installation - Step 2 of 8

Auto Updates

[Welcome](#)
[Auto Updates](#)
[Installation Location](#)
[Installation Type](#)
[Prerequisite Checks](#)
[Installation Summary](#)
[Installation Progress](#)
[Installation Complete](#)

☒ Skip Auto Updates

☐ Select patches from directory

Location: [Browse](#)

☐ Search My Oracle Support for Updates

Username:

Password:

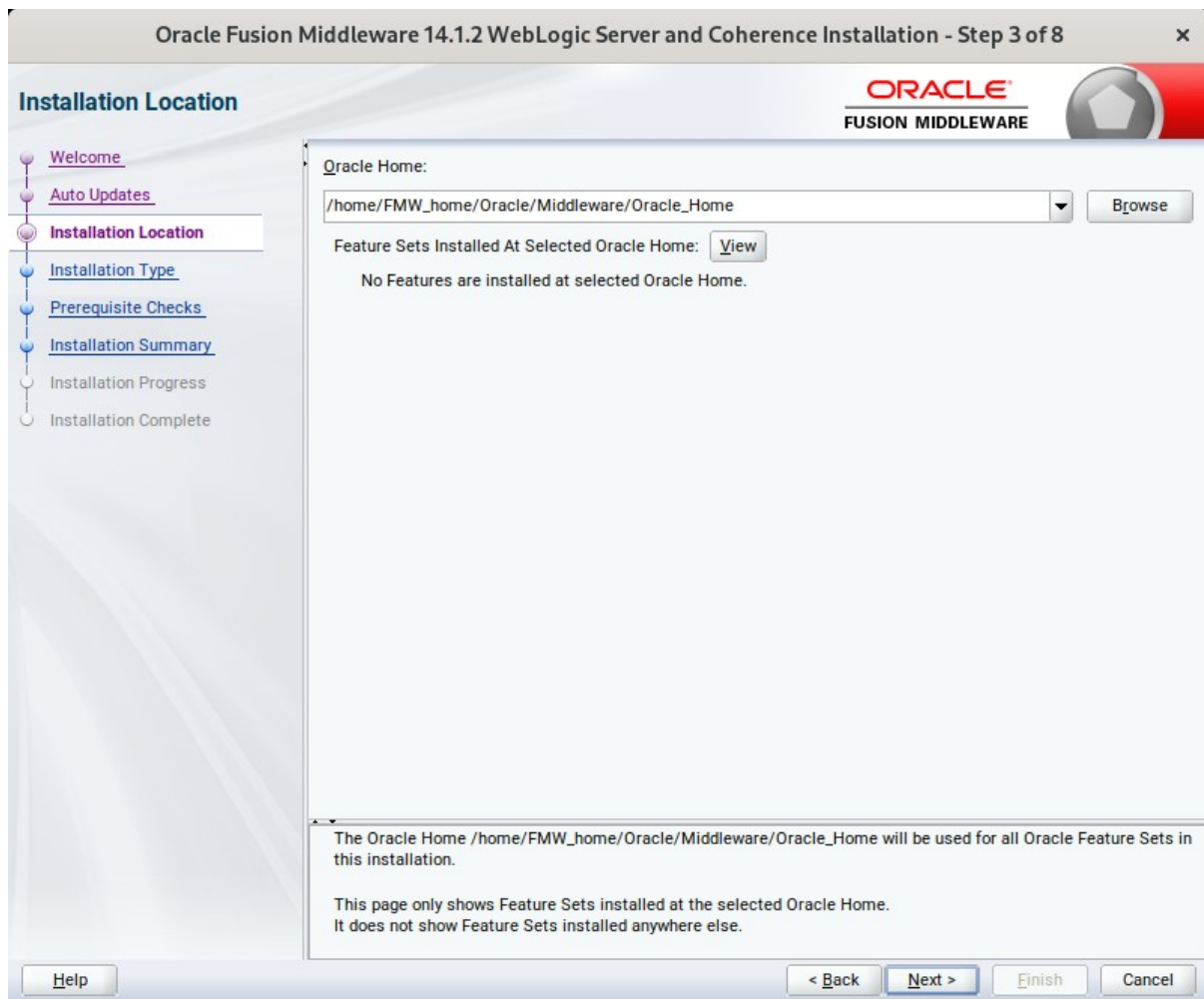
[Proxy Settings](#) [Test Connection](#)

[Search](#)

[Help](#) [< Back](#) [Next >](#) [Finish](#) [Cancel](#)

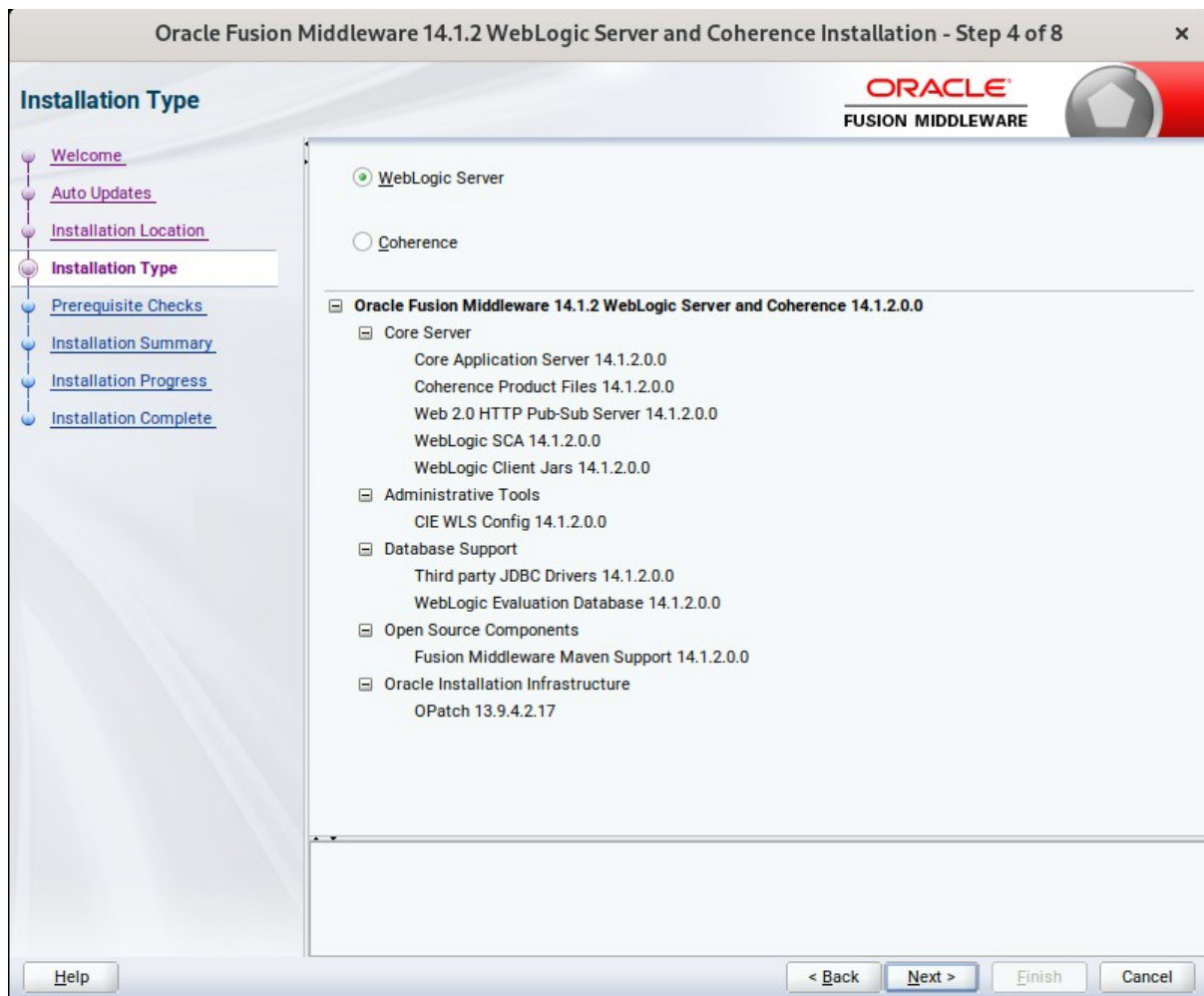
Select option "**Skip Auto Updates**" to skip this screen, then click **Next** to continue.

4). Installation Location.



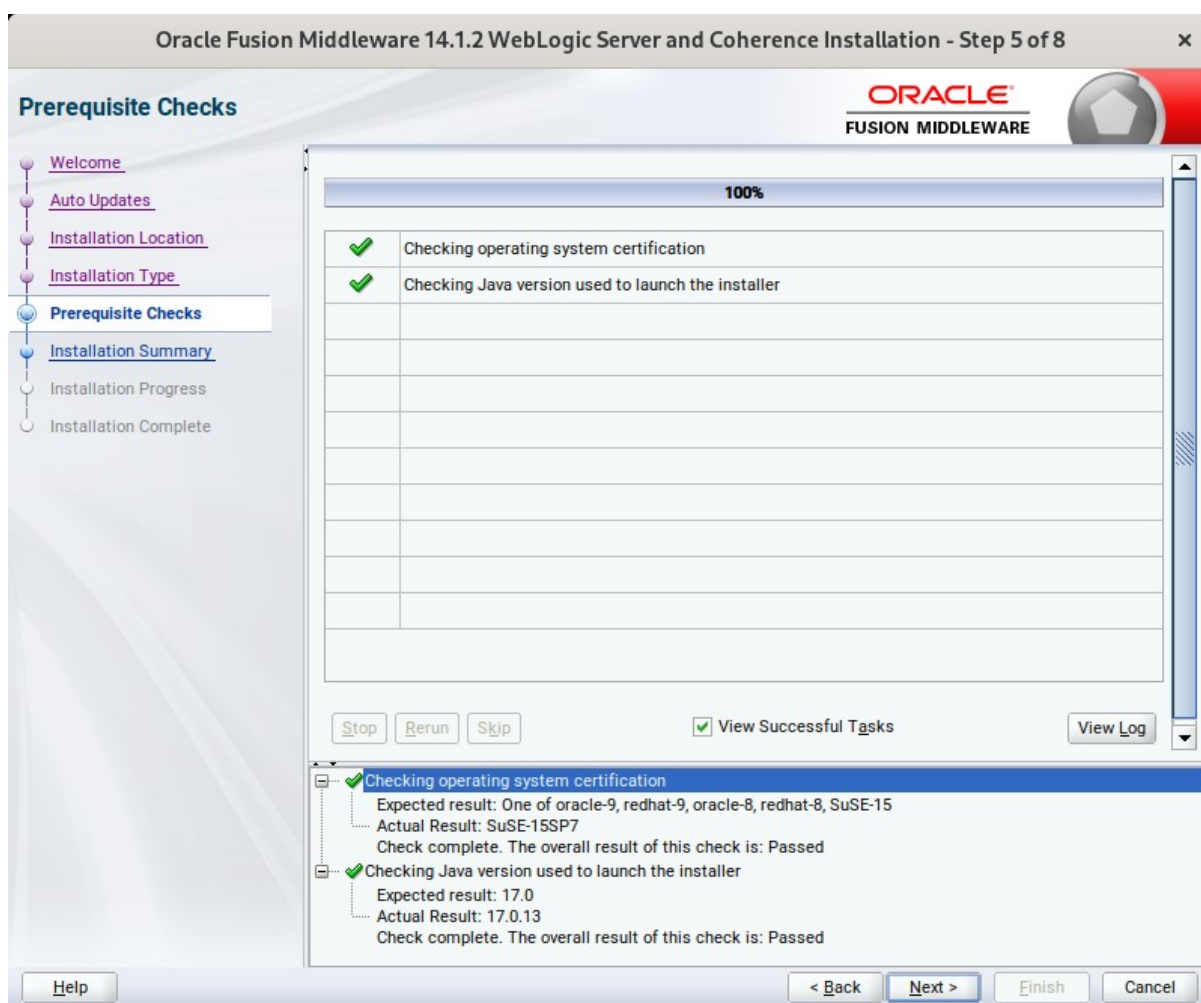
Type the full path of the directory in the Oracle Home field, then click **Next** to continue.

5). Installation Type.



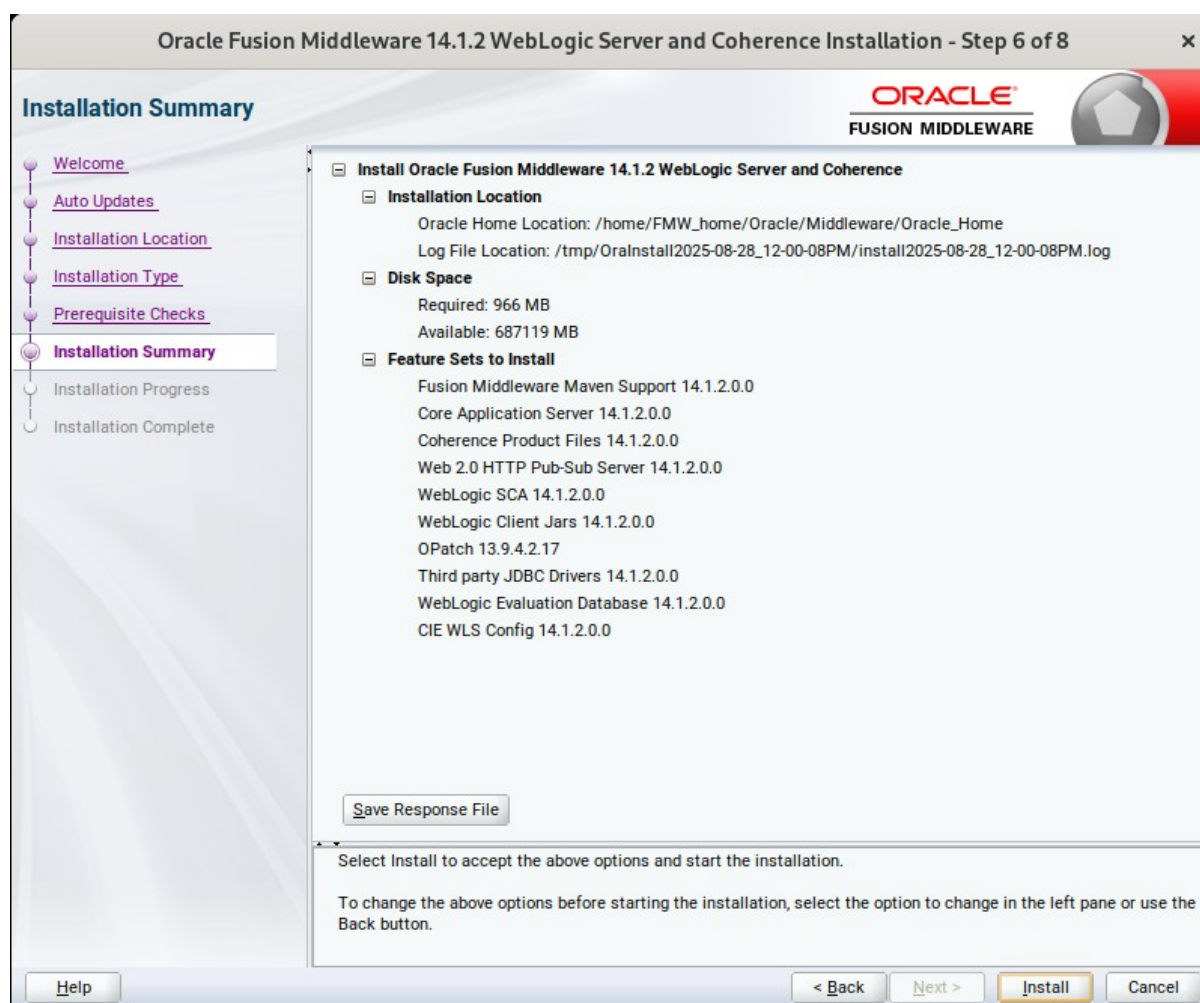
Use this screen to determine the type of installation you want to perform, then click **Next** to continue.

6). Prerequisite Checks.



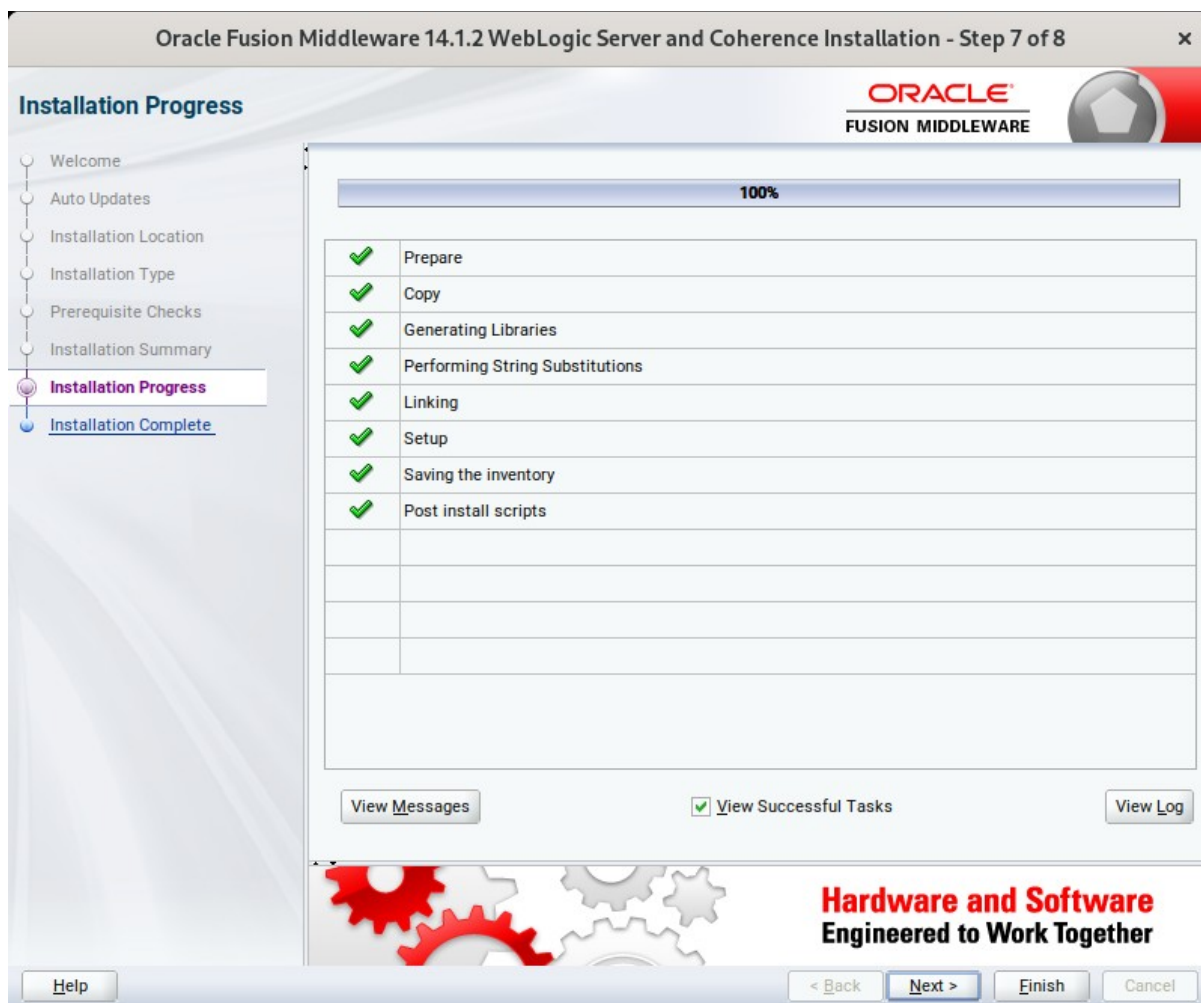
Prerequisite Checks results will be shown as above, click **Next** to continue.

7). Installation Summary.



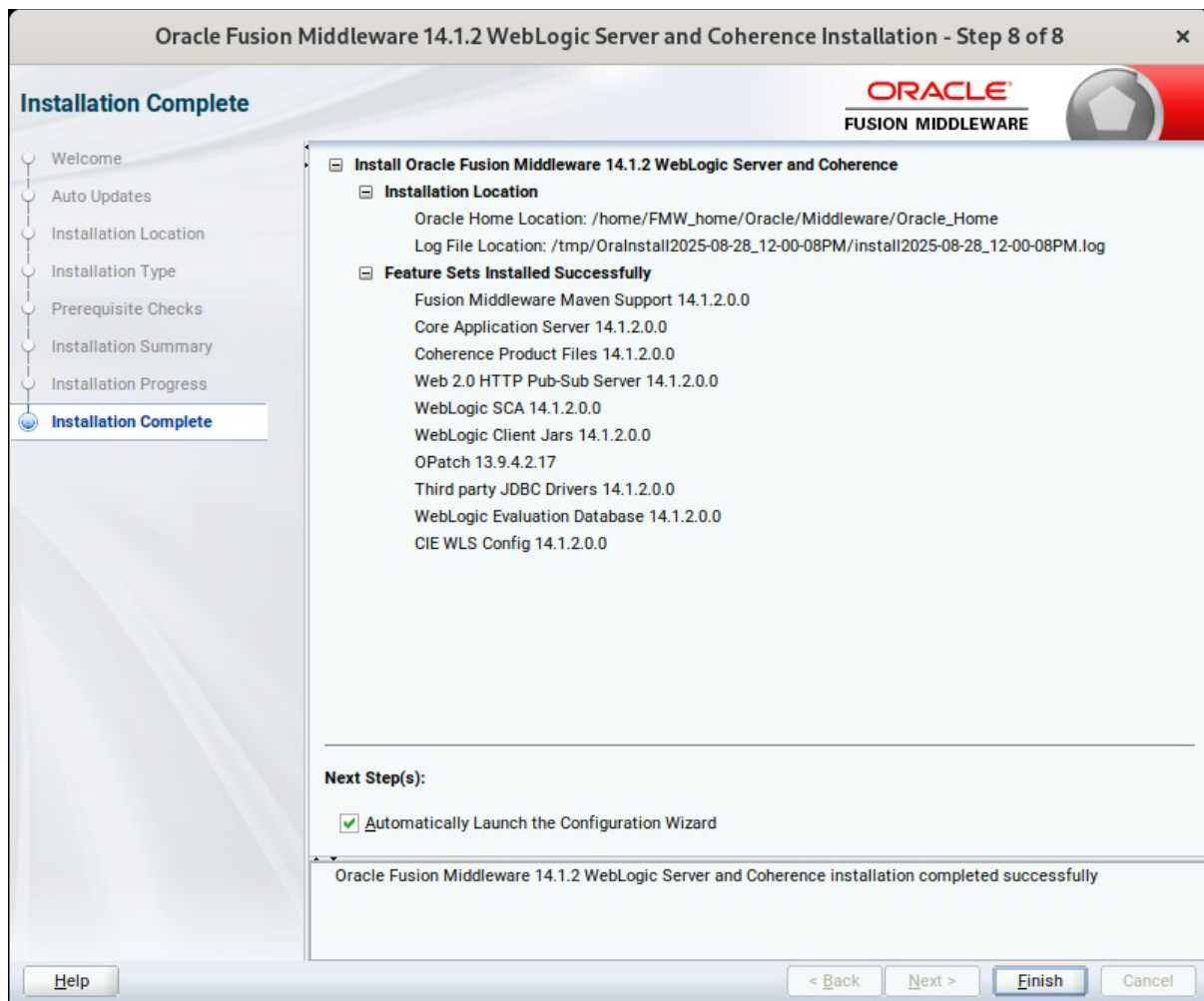
This screen contains a list of the feature sets you selected for installation, along with the approximate amount of disk SSpace to be used by the feature sets once installation is complete. Check the information, then click **Install** to continue.

8). Installation Progress.



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.



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

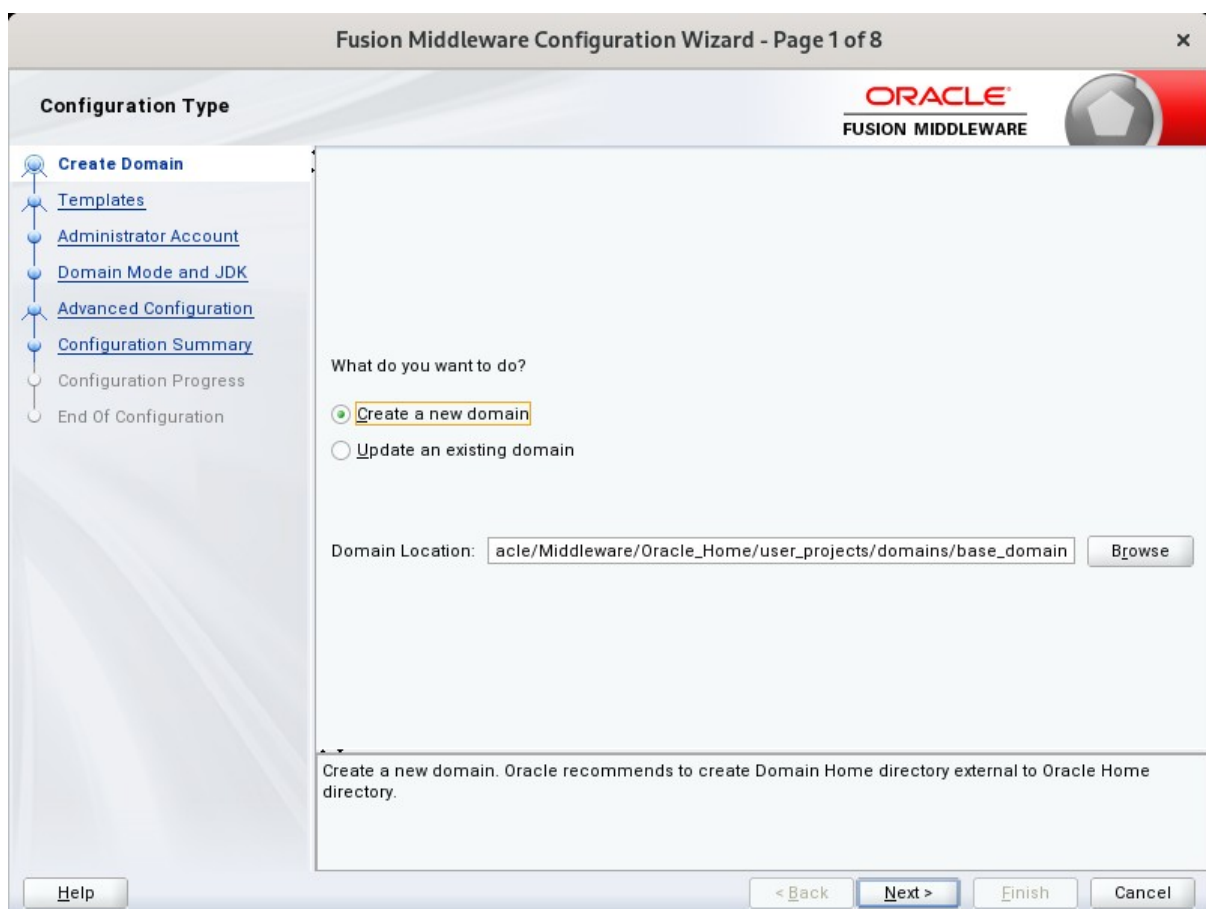
2. Creating and Configuring the WebLogic Domain

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**.

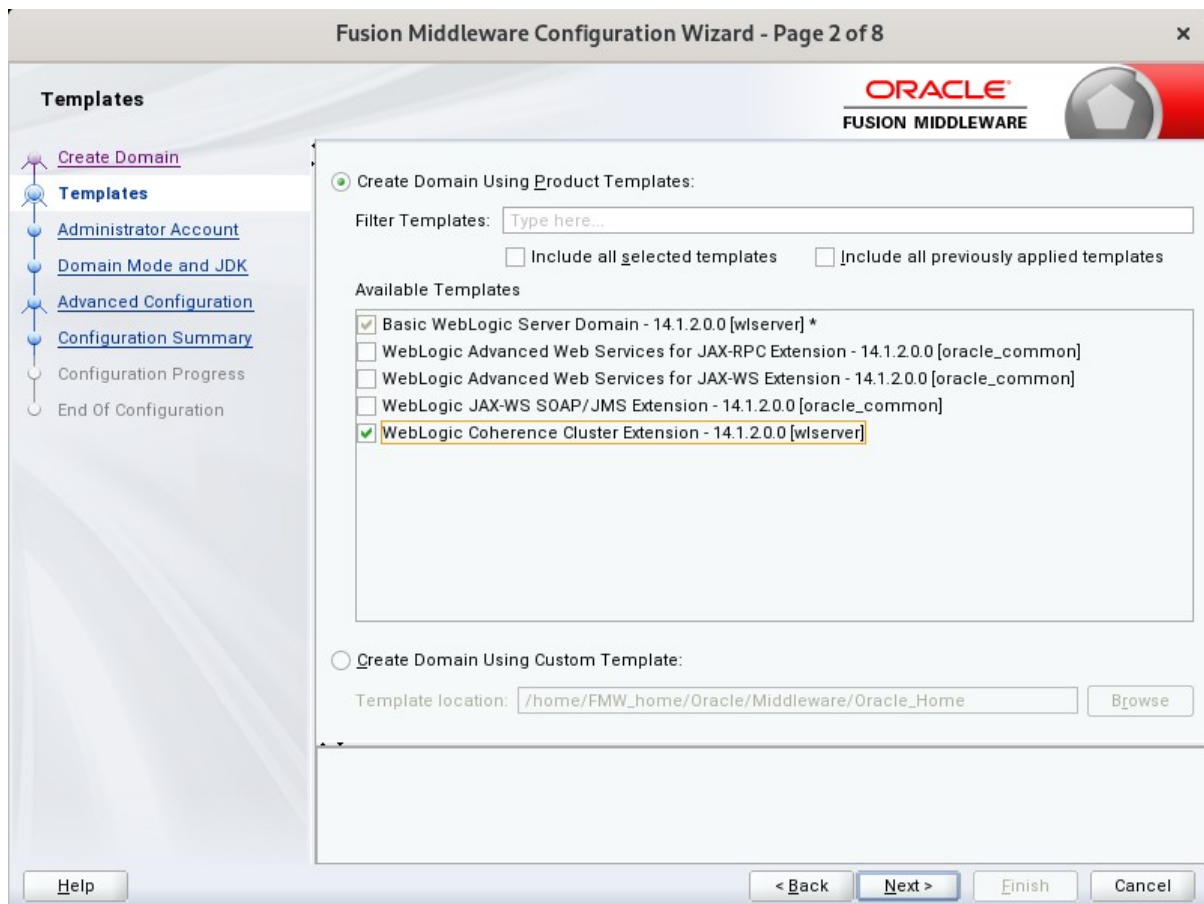
To set up your configuration, follow the steps below:

1). Configuration Type.



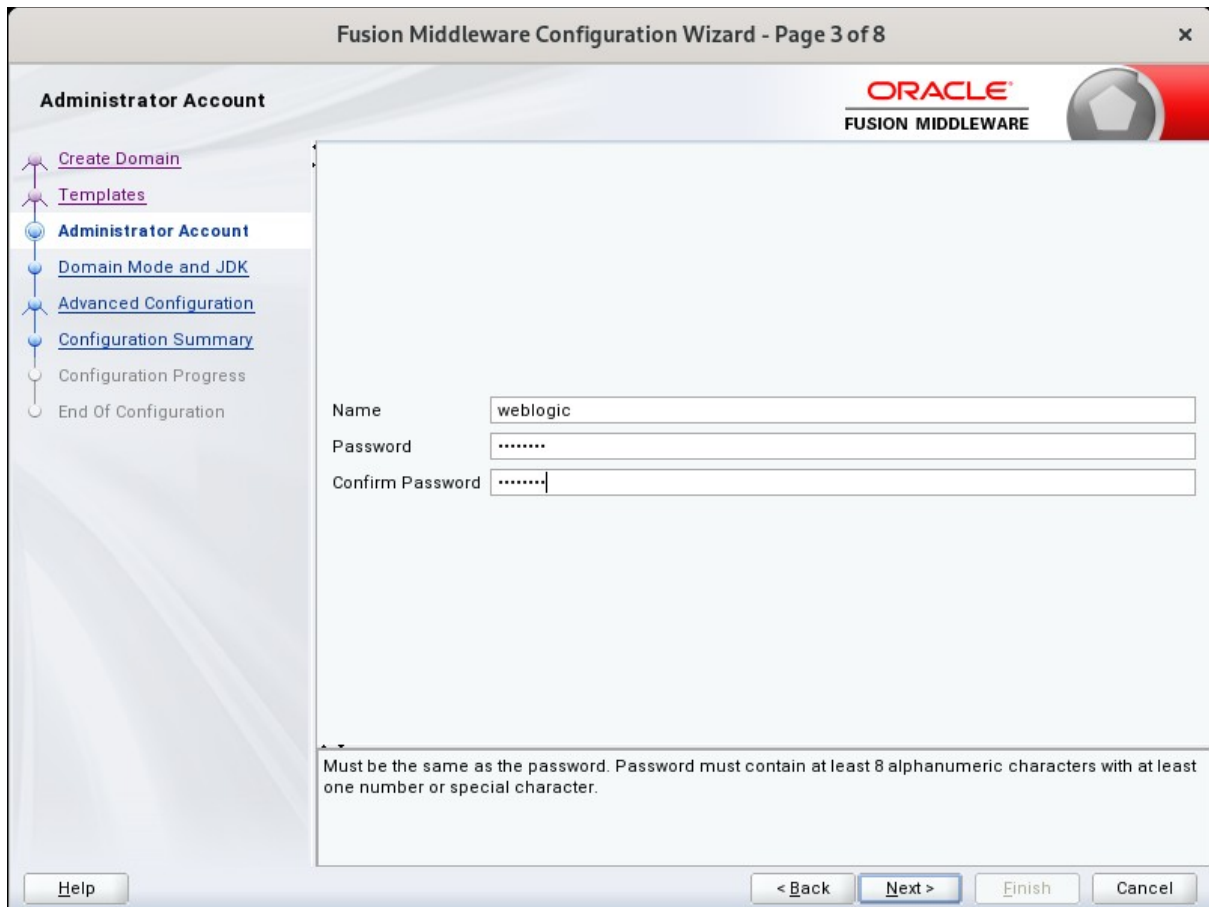
Select option **"Create a New Domain"** and specify the Domain home directory in the **"Domain Location"** field, then click **Next** to continue.

2). Templates.



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.



The screenshot shows the 'Administrator Account' step of the Fusion Middleware Configuration Wizard. The title bar reads 'Fusion Middleware Configuration Wizard - Page 3 of 8'. The Oracle logo and 'FUSION MIDDLEWARE' text are in the top right. A sidebar on the left lists the configuration steps: 'Create Domain', 'Templates', 'Administrator Account' (selected), 'Domain Mode and JDK', 'Advanced Configuration', 'Configuration Summary', 'Configuration Progress', and 'End Of Configuration'. The main area contains three input fields: 'Name' with the value 'weblogic', 'Password' with masked characters '.....', and 'Confirm Password' with masked characters '.....'. A note at the bottom states: 'Must be the same as the password. Password must contain at least 8 alphanumeric characters with at least one number or special character.' Navigation buttons at the bottom include 'Help', '< Back', 'Next >', 'Finish', and 'Cancel'.

Fusion Middleware Configuration Wizard - Page 3 of 8

Administrator Account

ORACLE
FUSION MIDDLEWARE

Create Domain
Templates
Administrator Account
Domain Mode and JDK
Advanced Configuration
Configuration Summary
Configuration Progress
End Of Configuration

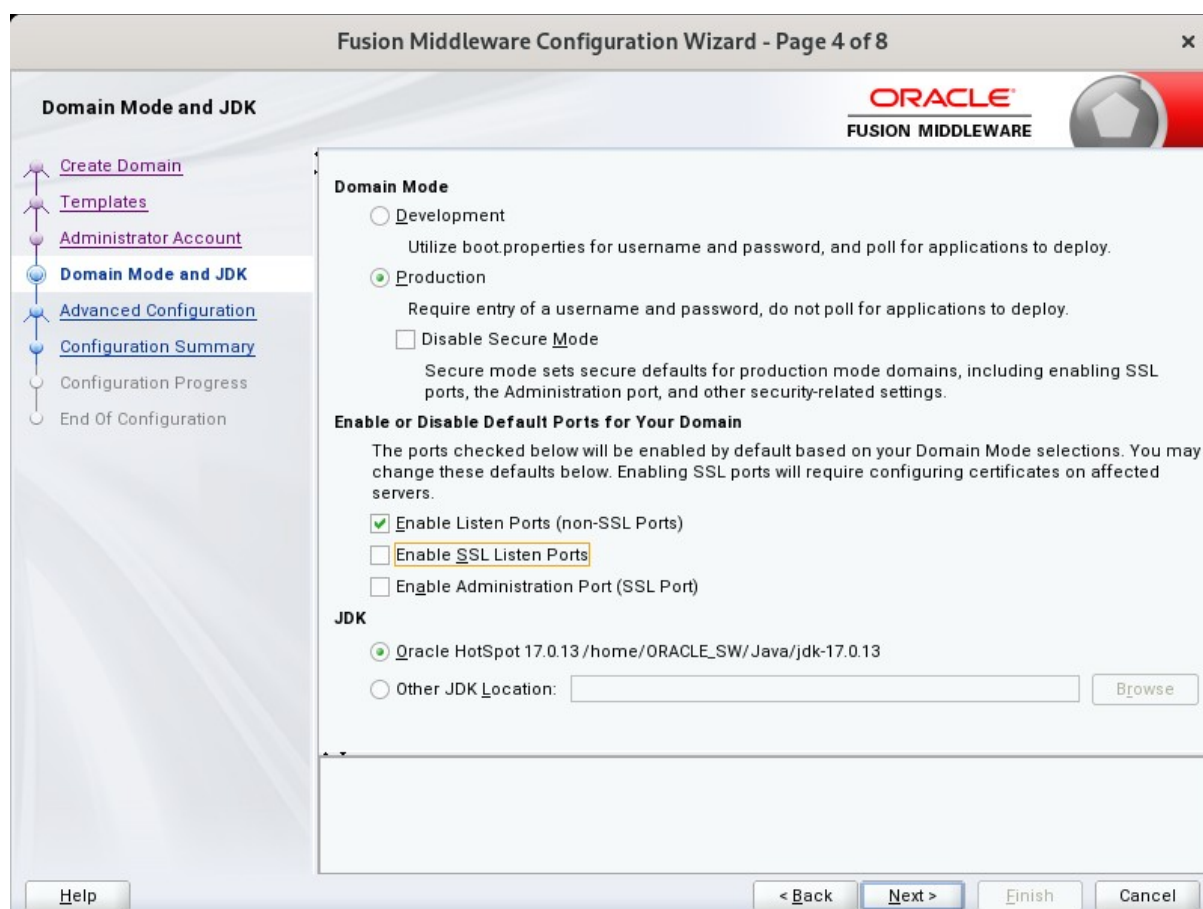
Name: weblogic
Password:
Confirm Password:

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

Help < Back Next > Finish 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.



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

(**Note:** Select **Production** Mode to give your environment a higher degree of security. You need to enter a user name and password to deploy applications and to start the Administration Server.

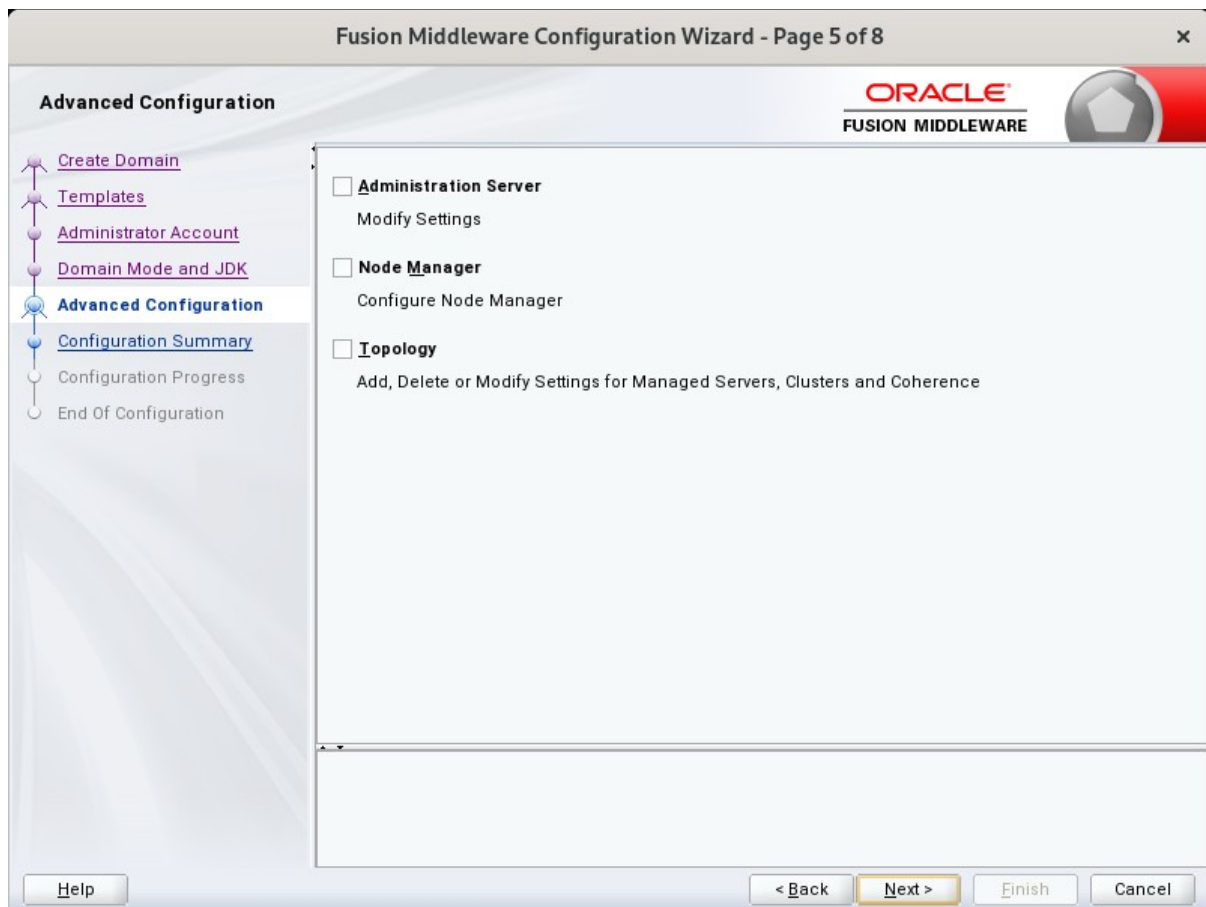
As of WebLogic Server 14.1.2.0.0, when you select **Production** mode, WebLogic Server automatically sets some of the security configurations of **Secured Production** to more secure values. However, there are certain security configurations (such as SSL/TLS) that require manual configuration. If you want to disable the more secure default settings, then you may select **Disable Secure Mode**. This will enable the non-SSL listen ports.

If you want to retain the more secure default settings of **Secured Production** mode in general, but want to change which ports (listen ports, SSL listen ports, or administration ports) will be enabled by default in your domain, then you may:

- Leave **Disable Secure Mode** unselected, and
- Change the default port selections under **Enable or Disable Default Ports for Your Domain**.

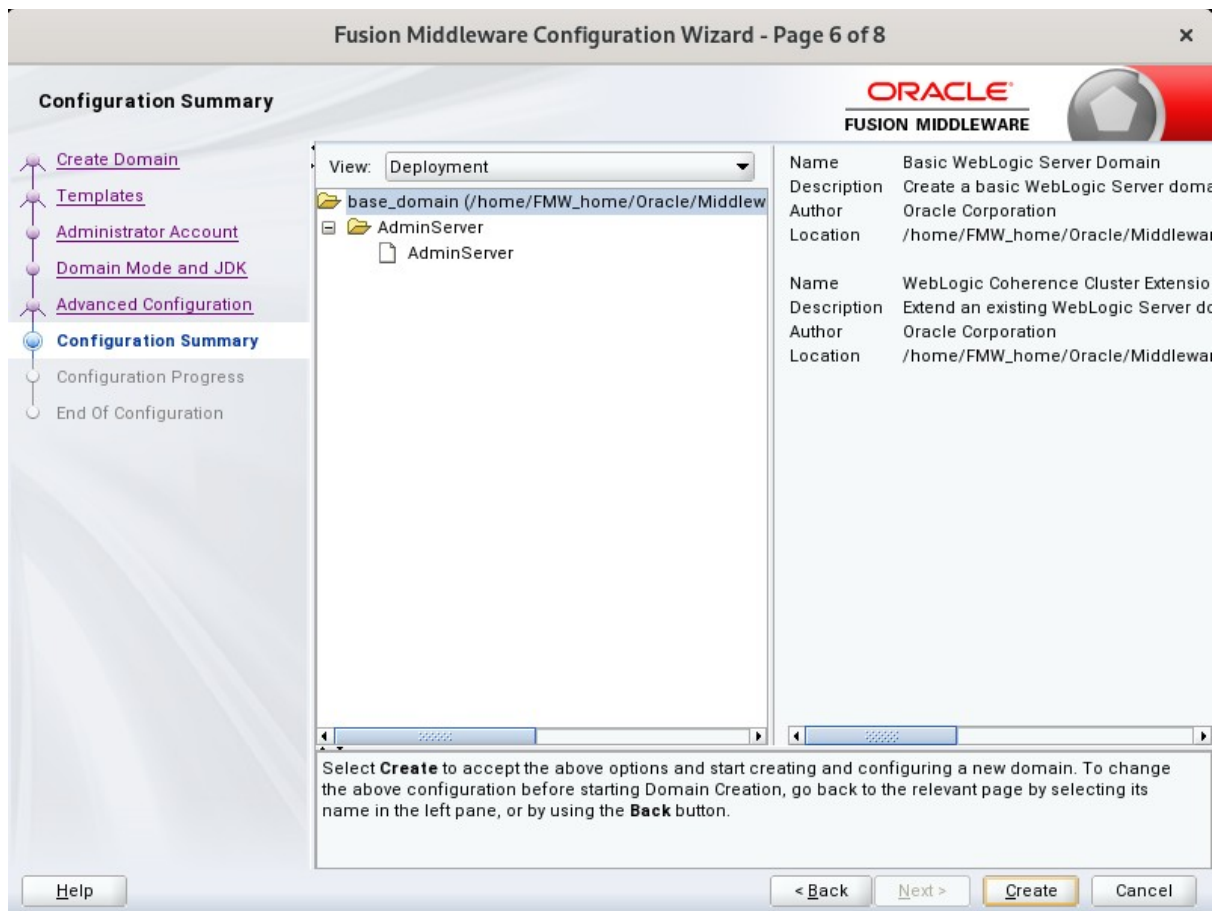
)

5). Advanced Configuration.



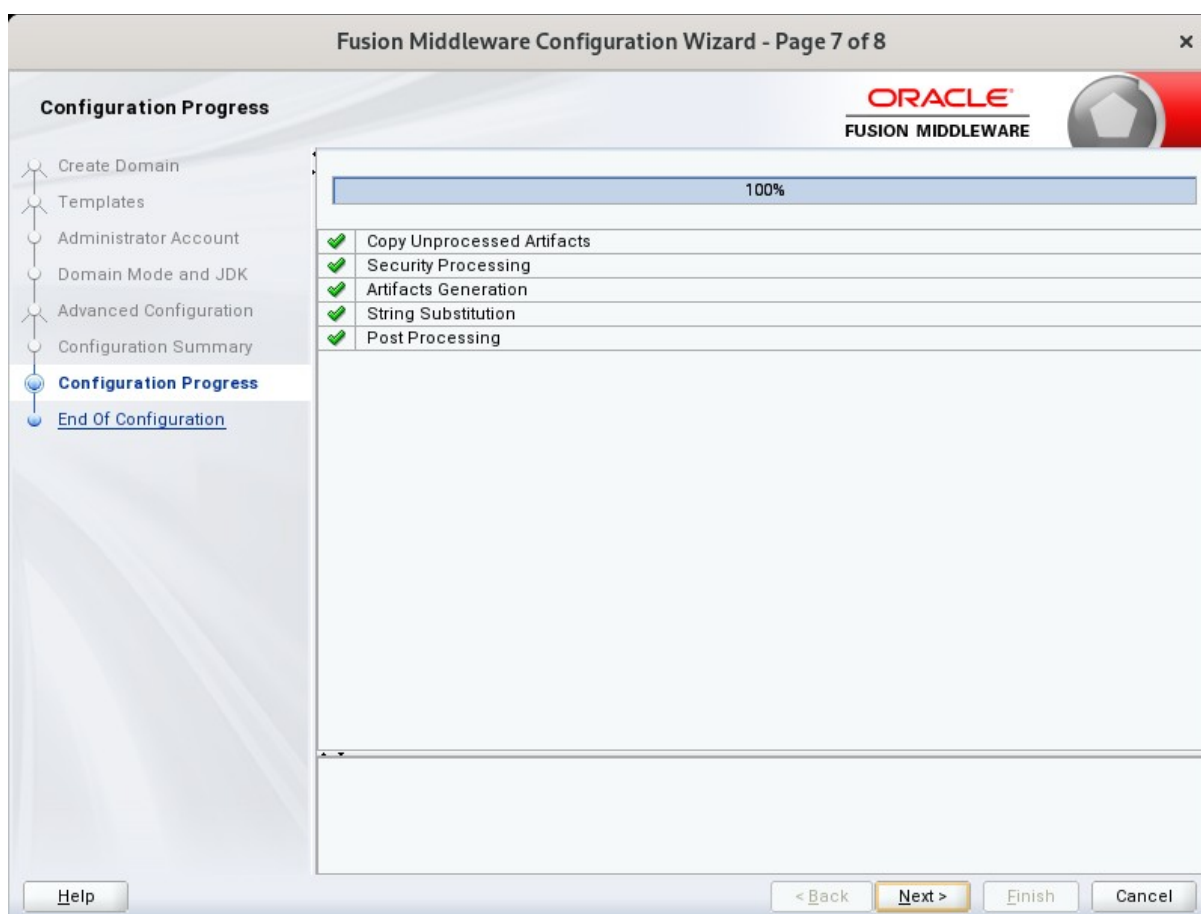
According to your requirements, select the desired options on the Advanced Configuration screen. Then click **Next** to continue.

6). Configuration Summary.



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

7). Configuration Progress.



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

8). End Of Configuration.



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

3. Starting the Administration Server and verifying the Configuration

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

Starting the Administration Server through a terminal

```

oracle@c3n1:...ns/base_domain/bin
oracle@c3n1:...ebLogic/14.1.2.0.0
2025-08-28 12:12:02.702/46.049 Oracle Coherence 14.1.2.0.0 <Info> (thread=[STANDBY] ExecuteThread: '2' for queue: 'weblogic.kernel.Default (self-tuning)', member=
n/a): Optional configuration override "cache-factory-builder-config.xml" is not specified
2025-08-28 12:12:02.703/46.050 Oracle Coherence 14.1.2.0.0 <Info> (thread=[STANDBY] ExecuteThread: '2' for queue: 'weblogic.kernel.Default (self-tuning)', member=
n/a): Optional configuration override "/custom-mbeans.xml" is not specified

Oracle Coherence Version 14.1.2.0.0 Build 112309
  Grid Edition: Production mode
Copyright (c) 2000, 2024, Oracle and/or its affiliates. All rights reserved.

2025-08-28 12:12:02.864/46.212 Oracle Coherence GE 14.1.2.0.0 <Warning> (thread=[STANDBY] ExecuteThread: '2' for queue: 'weblogic.kernel.Default (self-tuning)',
member=n/a): The cluster name has not been configured, a value of "oracle's cluster" has been automatically generated
  logger configured with destination 'jdk', severity level '5' and a character limit of '1048576'.
<Aug 28, 2025, 12:12:03.582 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to STANDBY.>
<Aug 28, 2025, 12:12:03.583 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to STARTING.>
<Aug 28, 2025, 12:12:03.615 PM China Standard Time> <Notice> <Log Management> <BEA-170036> <The Logging monitoring service timer has started to check for logged
message counts every 30 seconds.>
<Aug 28, 2025, 12:12:03.676 PM China Standard Time> <Notice> <Security> <BEA-090171> <Loading the identity certificate and private key stored under the alias Dem
oIdentity from the pkcs12 keystore file /home/FMW_home/oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/security/DemoIdentity.p12.>
<Aug 28, 2025, 12:12:03.964 PM China Standard Time> <Notice> <Log Management> <BEA-170027> <The server has successfully established a connection with the Domain
level Diagnostic Service.>
<Aug 28, 2025, 12:12:06.741 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to ADMIN.>
<Aug 28, 2025, 12:12:06.809 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to RESUMING.>
<Aug 28, 2025, 12:12:06.891 PM China Standard Time> <Warning> <Server> <BEA-002611> <The hostname "localhost", maps to multiple IP addresses: 127.0.0.1, 0:0:0:0:
0:0:0:1.>
<Aug 28, 2025, 12:12:06.892 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default[4]" is now listening on 127.0.0.1:7001 for protocols t1o
p, t3, ldap, snmp, http.>
<Aug 28, 2025, 12:12:06.893 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default[1]" is now listening on 192.168.3.1:7001 for protocols t1o
p, t3, ldap, snmp, http.>
<Aug 28, 2025, 12:12:06.894 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default[2]" is now listening on 10.200.176.15:7001 for protocols t1o
p, t3, ldap, snmp, http.>
<Aug 28, 2025, 12:12:06.895 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default" is now listening on 10.200.176.11:7001 for protocols t1o
p, t3, ldap, snmp, http.>
<Aug 28, 2025, 12:12:06.895 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default[3]" is now listening on 0:0:0:0:0:0:1%lo:7001 for protocol
s t1o
p, t3, ldap, snmp, http.>
<Aug 28, 2025, 12:12:06.896 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000398> <Secure mode enabled for WebLogic Server "AdminServer".>
<Aug 28, 2025, 12:12:06.897 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000329> <Started the WebLogic Server Administration Server "AdminServer" for d
omain "base_domain" running in production mode.>
<Aug 28, 2025, 12:12:06.946 PM China Standard Time> <Warning> <Security> <BEA-090983> <Secure Mode is enabled but the administration port is not enabled. Solutio
N: Enable the administration port.>
<Aug 28, 2025, 12:12:06.947 PM China Standard Time> <Warning> <Security> <BEA-091033> <No dedicated network channel configured for HTTPS traffic. SOLUTION: Orac
le recommends creating a network channel for only HTTPS traffic for externally available applications. Configure your firewall so that the network channel is avai
lable externally, and that the default network channel and other customer internal channels are only accessible internally.>
<Aug 28, 2025, 12:12:07.017 PM China Standard Time> <Warning> <Security> <BEA-091003> <Secure Mode requires that users in the Administrators group do not have ob
vious user names. SOLUTION: Change the user name "weblogic" so it is not a commonly used administrator name.>
<Aug 28, 2025, 12:12:07.071 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000360> <The server started in RUNNING mode.>
<Aug 28, 2025, 12:12:07.080 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to RUNNING.>

```

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

Server state changed to RUNNING.

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

Access to WebLogic Server Admin Console - Login page

WebLogic Server 14.1.2

ORACLE
WebLogic Server Sign In
Welcome

Username:

Password:

Sign In

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Viewing WebLogic Server Admin Console - Home page

WebLogic Remote Console

File Edit View Help

WebLogic Remote Console 2.4.16 Search

Security warnings detected. [View/Refresh Report](#)

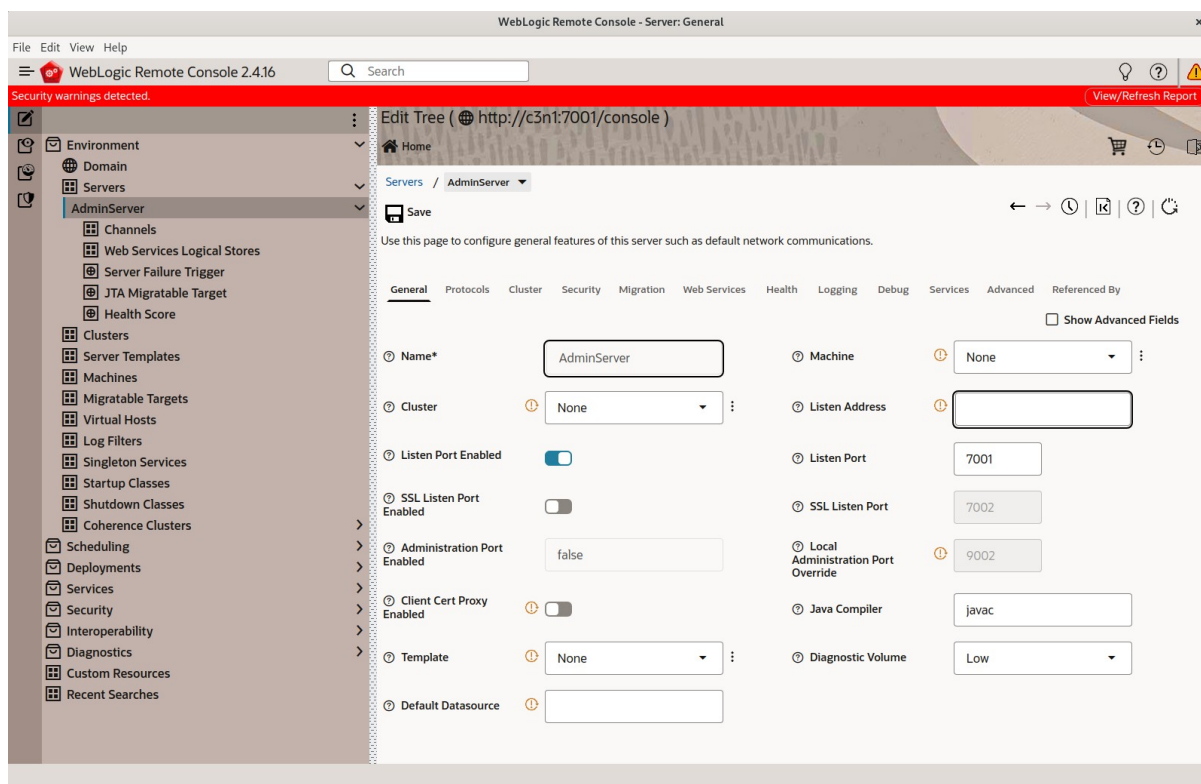
Home (<http://c3n1:7001/console>)

Home

Trees

- Edit Tree**
Maintain configuration of the WebLogic domain you are currently working with.
- Configuration View Tree**
Examine read-only configuration of the WebLogic domain you are currently working with.
- Monitoring Tree**
View runtime MBean information for select resources in the WebLogic domain you are currently working with.
- Security Data Tree**
Manage security-related information (e.g. users, groups, roles, policies, credentials, etc.) in the WebLogic domain you are currently working with.

Viewing WebLogic Server Admin Console - Summary of Servers



End of Oracle WebLogic Server Software.

Oracle Form and Reports

1. Installing Oracle WebLogic Server software

1-1. Prerequisites:

Installation of Oracle Forms and Reports requires:

- 1). Oracle Database 19c installed.

```
oracle@c3n1:~> export ORACLE_HOME=/home/oracle/db_19c/
oracle@c3n1:~> export ORACLE_SID=sles
oracle@c3n1:~> /home/oracle/db_19c/bin/sqlplus /nolog

SQL*Plus: Release 19.0.0.0.0 - Production on Thu Sep 4 16:14:44 2025
Version 19.27.0.0.0

Copyright (c) 1982, 2024, Oracle. All rights reserved.

SQL> conn sys/[REDACTED]@c3n1:1521/sles as sysdba
Connected.
SQL> show sga

Total System Global Area 4.0265E+10 bytes
Fixed Size                 37601016 bytes
Variable Size             6979321856 bytes
Database Buffers          3.3152E+10 bytes
Redo Buffers              96616448 bytes
SQL> show pdbs

  CON_ID CON_NAME                                OPEN MODE RESTRICTED
-----
       2 PDB$SEED                                READ ONLY  NO
       3 SLES_PDB                                READ WRITE NO
SQL> select DBMS_XDB_CONFIG.GETHTTPSPORT from dual;

GETHTTPSPORT
-----
          5500

SQL> exit
Disconnected from Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.27.0.0.0
oracle@c3n1:~> █
```

- 2). Oracle JDK 17.0.12 or later installed.

```
oracle@c3n1:~$ export JAVA_HOME=/home/ORACLE_SW/Java/jdk-17.0.13
oracle@c3n1:~$ export PATH=$JAVA_HOME/bin:$PATH
oracle@c3n1:~$ java -version
java version "17.0.13" 2024-10-15 LTS
Java(TM) SE Runtime Environment (build 17.0.13+10-LTS-268)
Java HotSpot(TM) 64-Bit Server VM (build 17.0.13+10-LTS-268, mixed mode, sharing)
oracle@c3n1:~$
```

- 3). Oracle WebLogic Server 14c (14.1.2.0.0) (Fusion Middleware Infrastructure Installer)

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

- 3-1). Installation Inventory Setup.



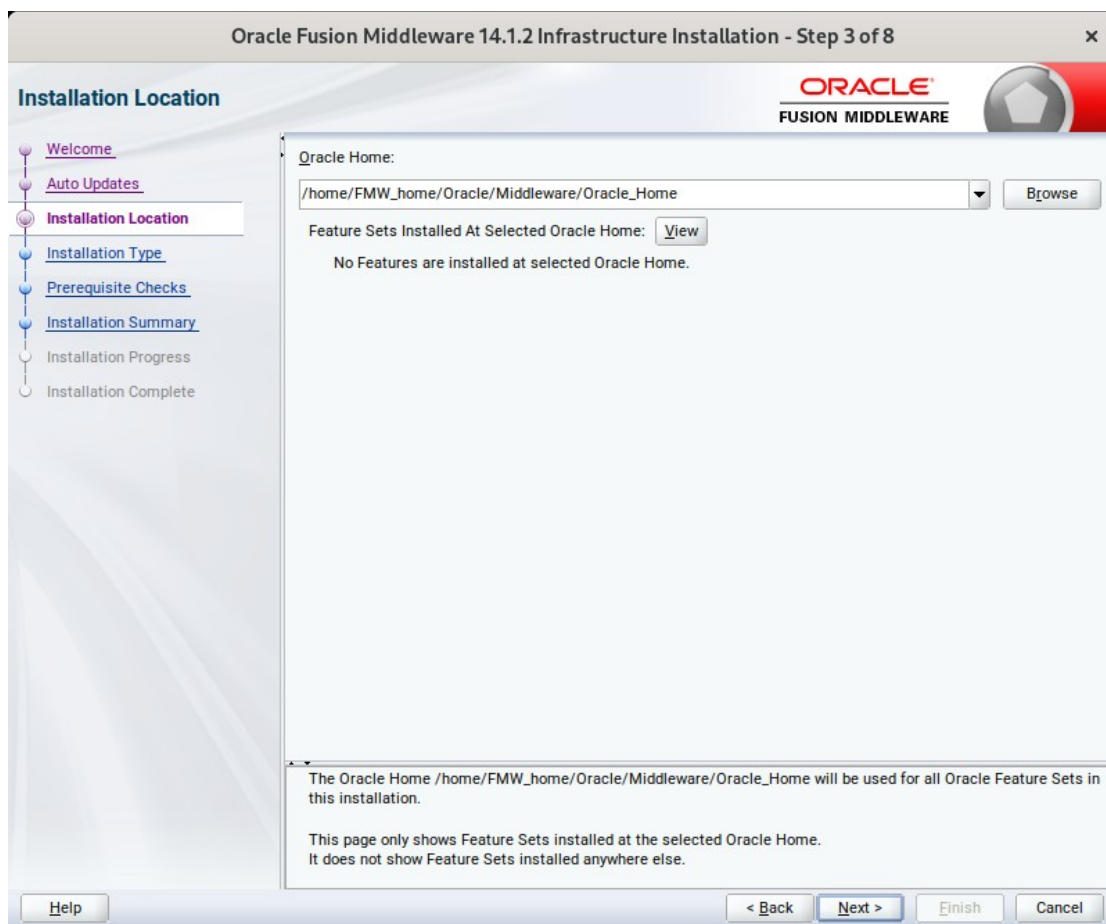
Specify the Oracle inventory directory and group permissions for that directory. The group must have write permissions to the Oracle inventory directory, then click **OK** to continue.

3-2). Welcome.



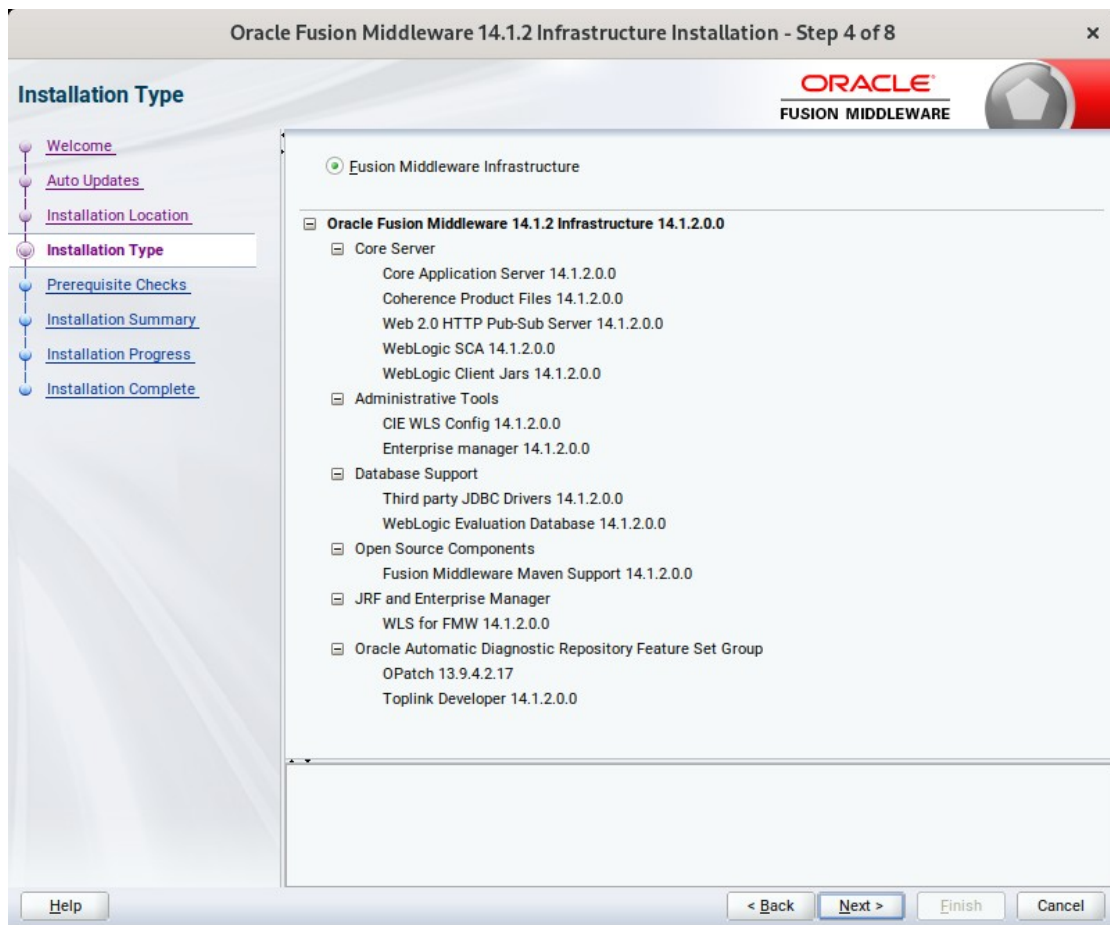
Review the information on this screen carefully to be sure you have performed all the necessary prerequisites, then click **Next** to continue.

3-3). Installation Location.



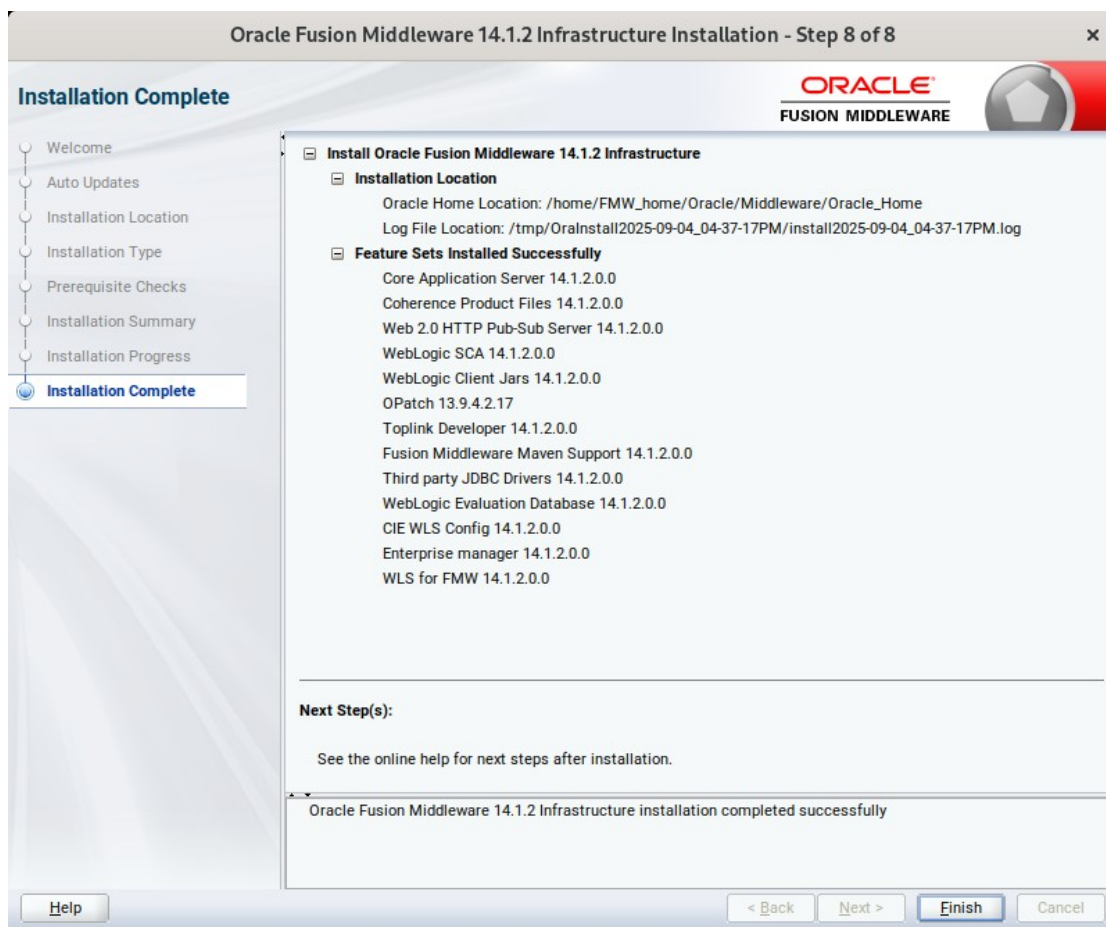
Type the full path of the directory in the Oracle Home field, then click **Next** to continue.

3-4). Installation Type.



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

3-5). Installation Complete.



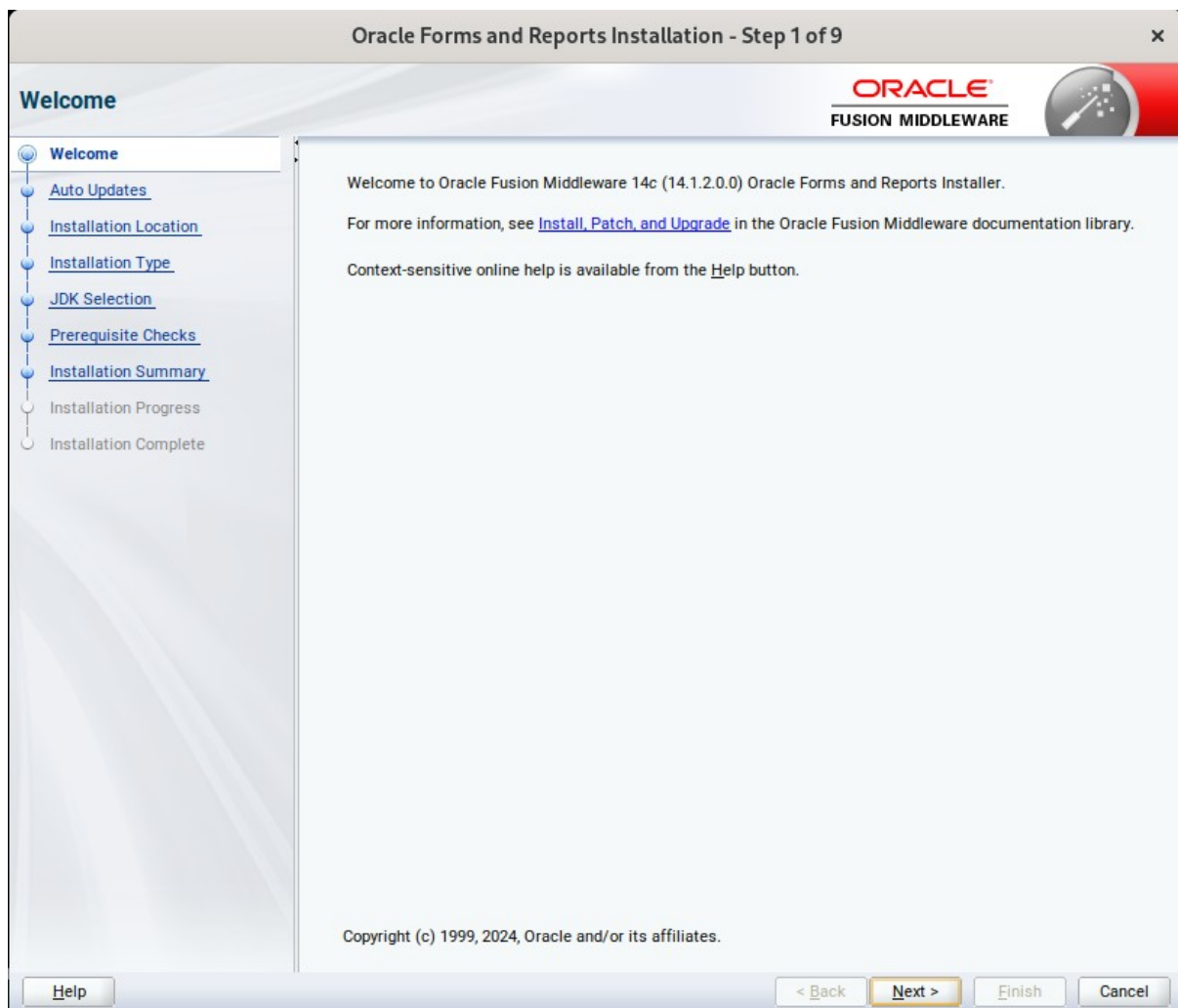
1-2. Log in to the target system (SUSE Linux Enterprise Server 15 SP7 64-bit OS) as a non-admin user. Download the Oracle Forms and Reports 14c (14.1.2.0.0) from <https://www.oracle.com/downloads/#category-middleware>.

(**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 files(V1045121-01.zip) and launch the installation program by running '`./fmw_14.1.2.0.0_fr_linux64.bin`'.

For the actual installation, follow the steps below:

1). Welcome page.



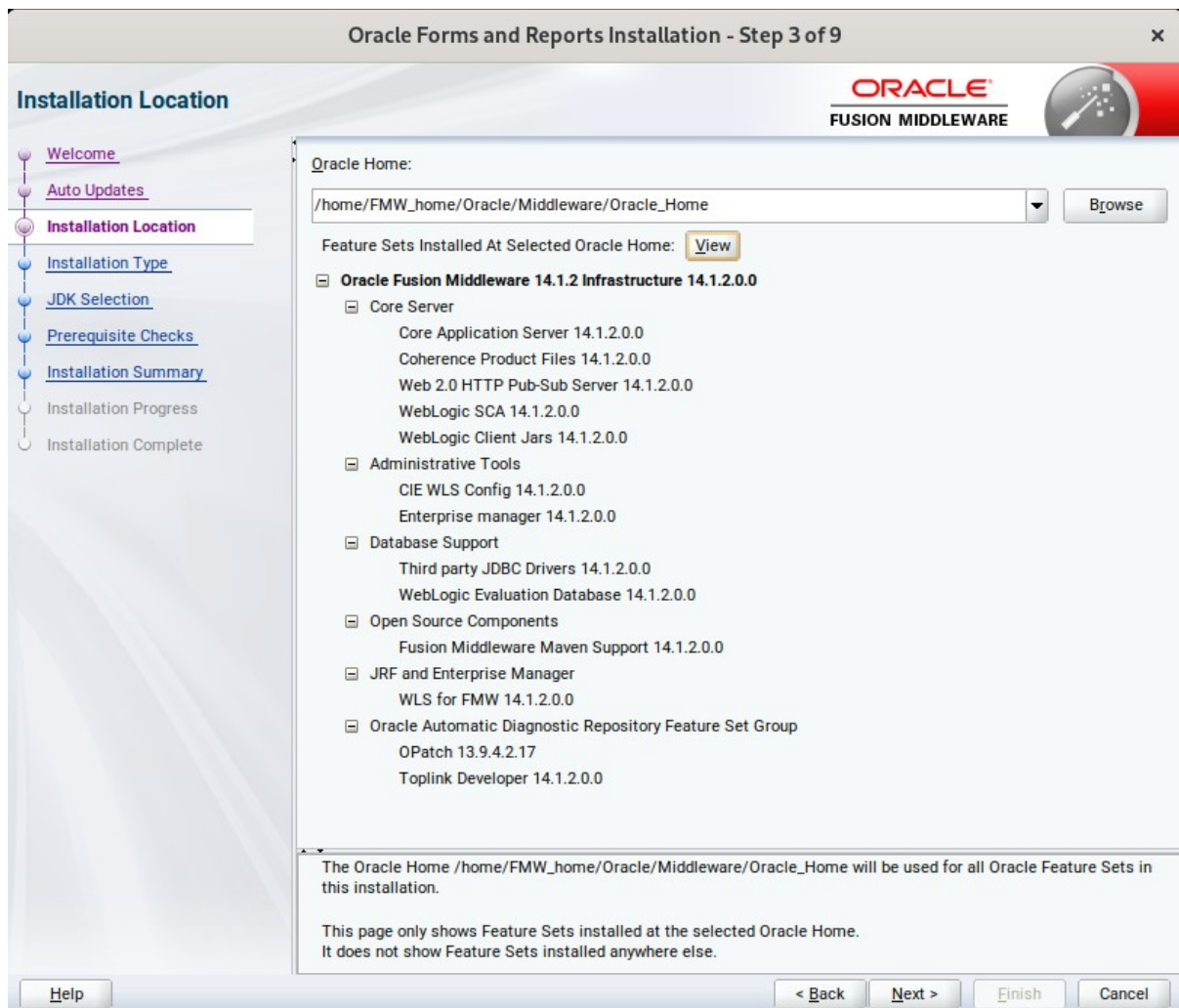
This page welcomes you to the installation. Click **Next** to continue.

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

The screenshot shows the 'Auto Updates' window during the Oracle Forms and Reports installation. The title bar reads 'Oracle Forms and Reports Installation - Step 2 of 9'. The window has a sidebar on the left with a list of steps: Welcome, Auto Updates (selected), Installation Location, Installation Type, JDK Selection, Prerequisite Checks, Installation Summary, Installation Progress, and Installation Complete. The main area contains three radio button options: 'Skip Auto Updates' (selected), 'Select patches from directory', and 'Search My Oracle Support for Updates'. The 'Select patches from directory' option has a 'Location' text box and a 'Browse' button. The 'Search My Oracle Support for Updates' option has 'Username' and 'Password' text boxes, a 'Proxy Settings' button, and a 'Test Connection' button. Below these is a 'Search' button and a large empty text area. At the bottom of the window are buttons for '< Back', 'Next >', 'Finish', and 'Cancel'. A 'Help' button is located in the bottom left corner of the window frame.

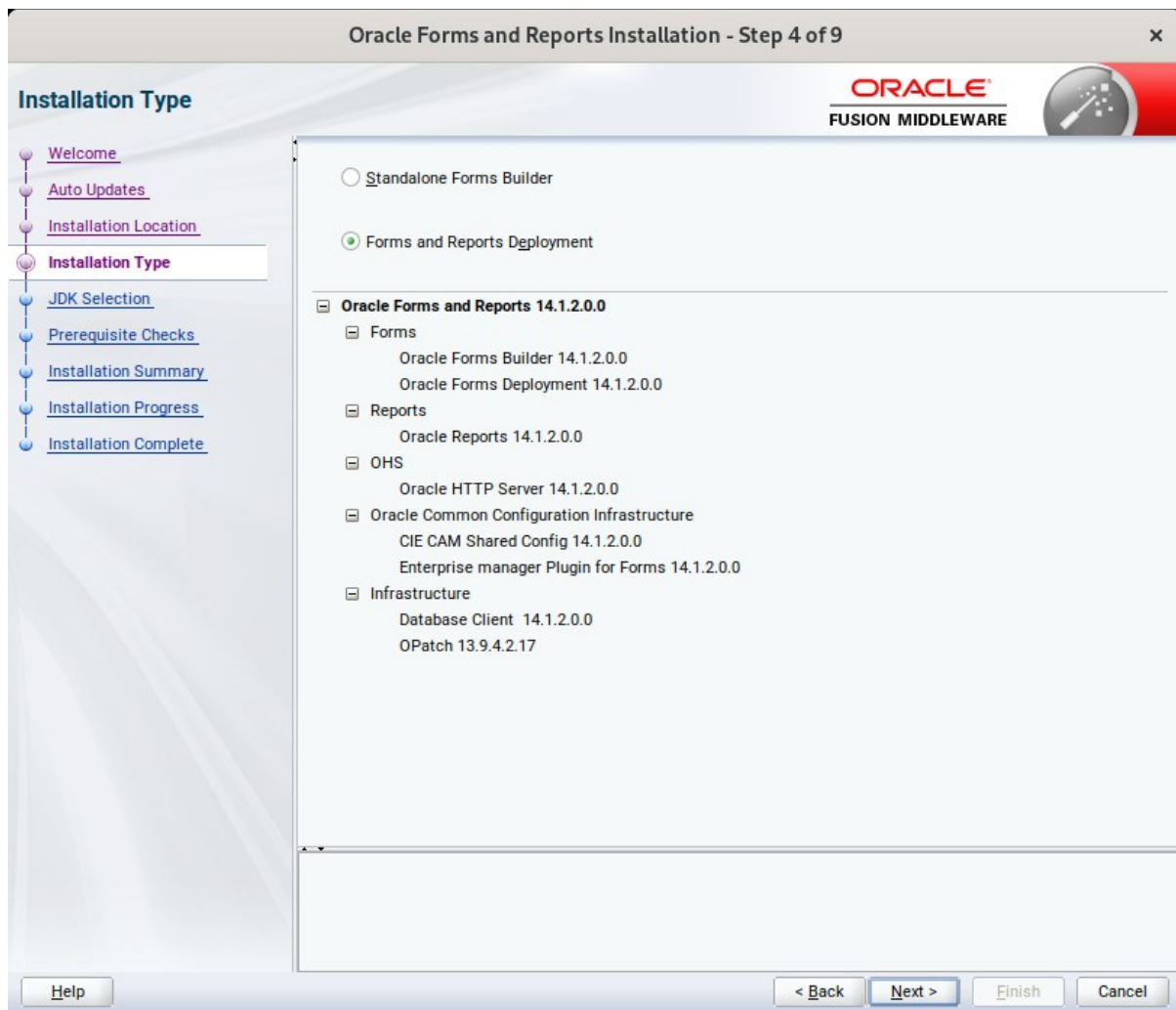
This page enables you to choose to automatically receive software updates for your components from Oracle Corporation. make your choices, then click **Next** to continue.

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



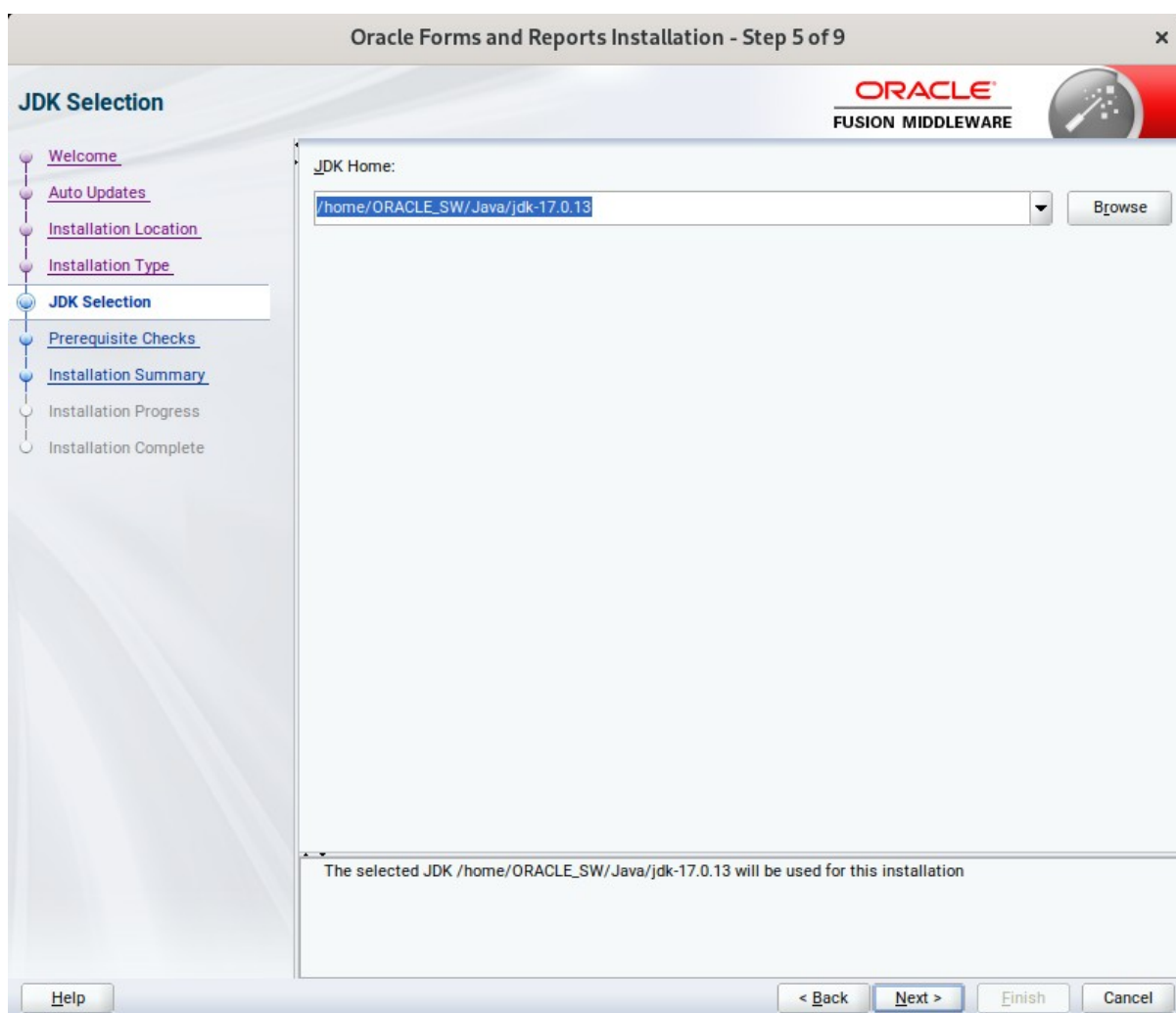
Specify the Oracle home location into which you want to install the product(s). Click **Next** to continue.

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



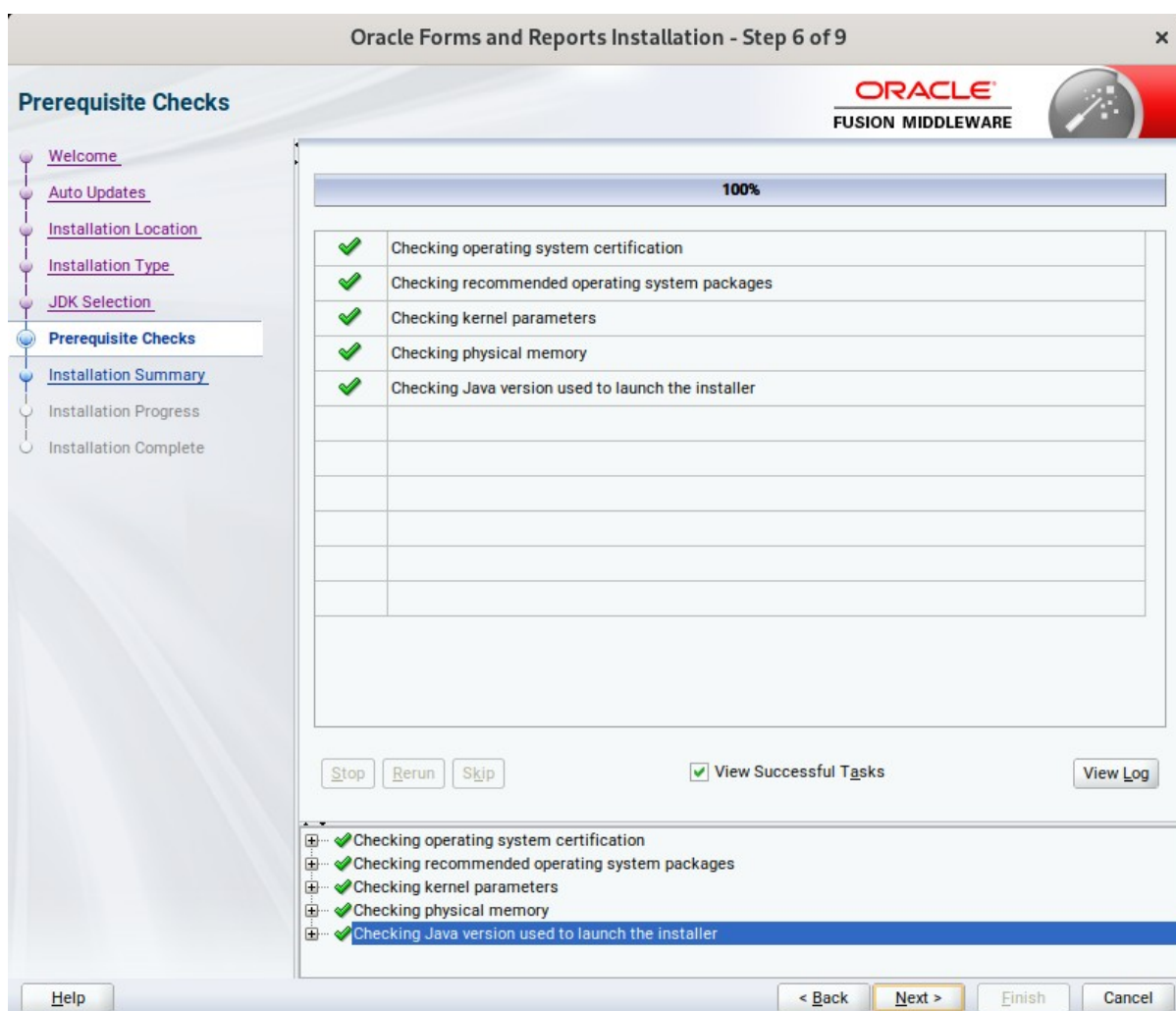
Select **Standalone Forms Builder** if you want only that functionality, or choose **Forms and Reports Deployment** to install all of the products. Click **Next** to continue.

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



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

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



Prerequisite Checks results will be shown as above.

(Note:

1). Oracle Forms and Reports 14c (14.1.2.0.0) - Minimum Requirements for the SLES OS.

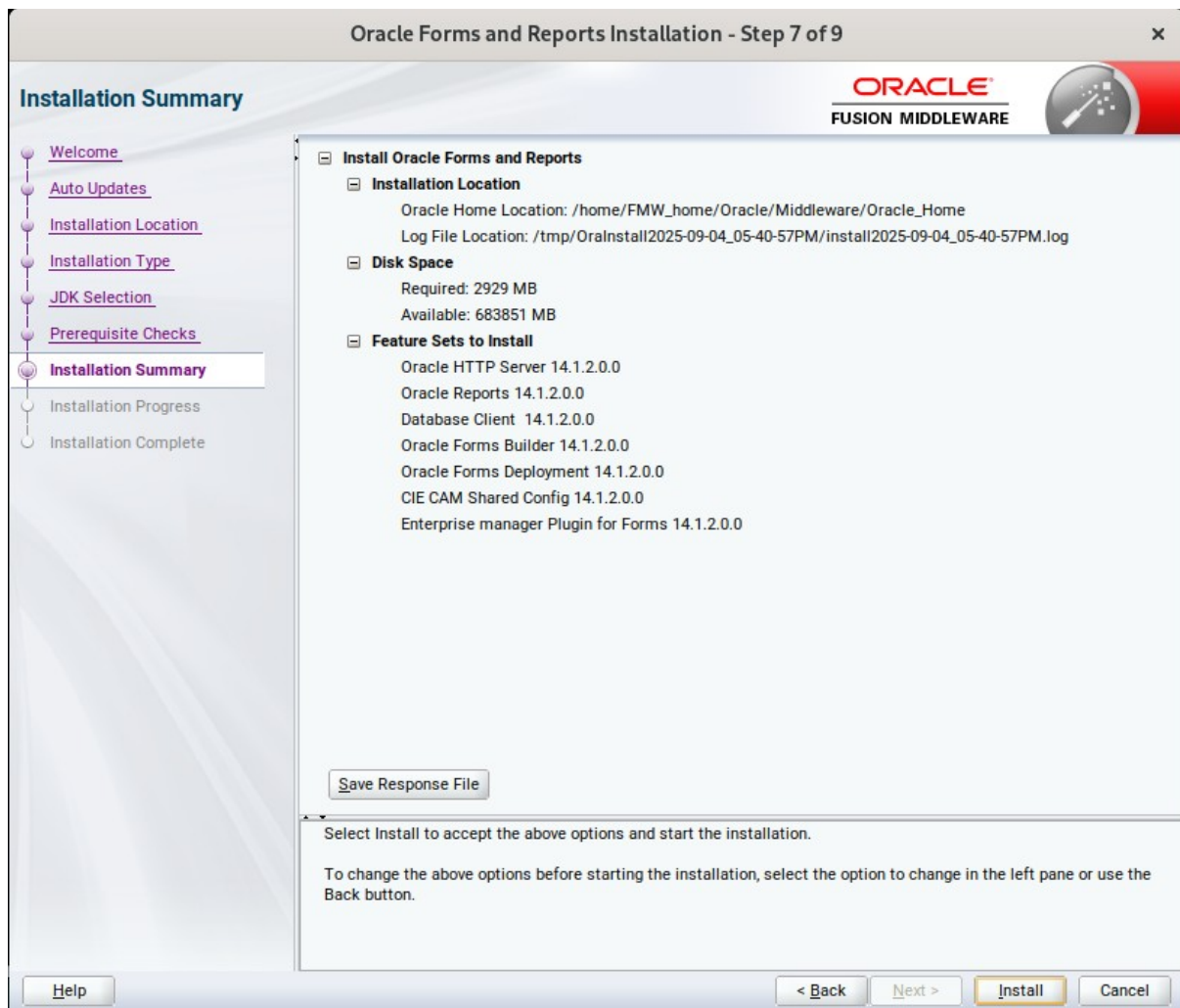
SUSE Linux Enterprise Server 15 (SP6+)

2). Required Packages - Please ensure following packages(or later versions) are installed.

```
binutils-2.41-150100.7.46.1-x86_64
glibc-2.38-150600.12.1-x86_64
linux-glibc-devel-6.4-150600.2.17-x86_64
glibc-devel-2.38-150600.12.1-x86_64
glibc-locale-2.38-150600.12.1-x86_64
glibc-extra-2.38-150600.12.1-x86_64
glibc-32bit-2.38-150600.12.1-x86_64
glibc-devel-32bit-2.38-150600.12.1-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
```

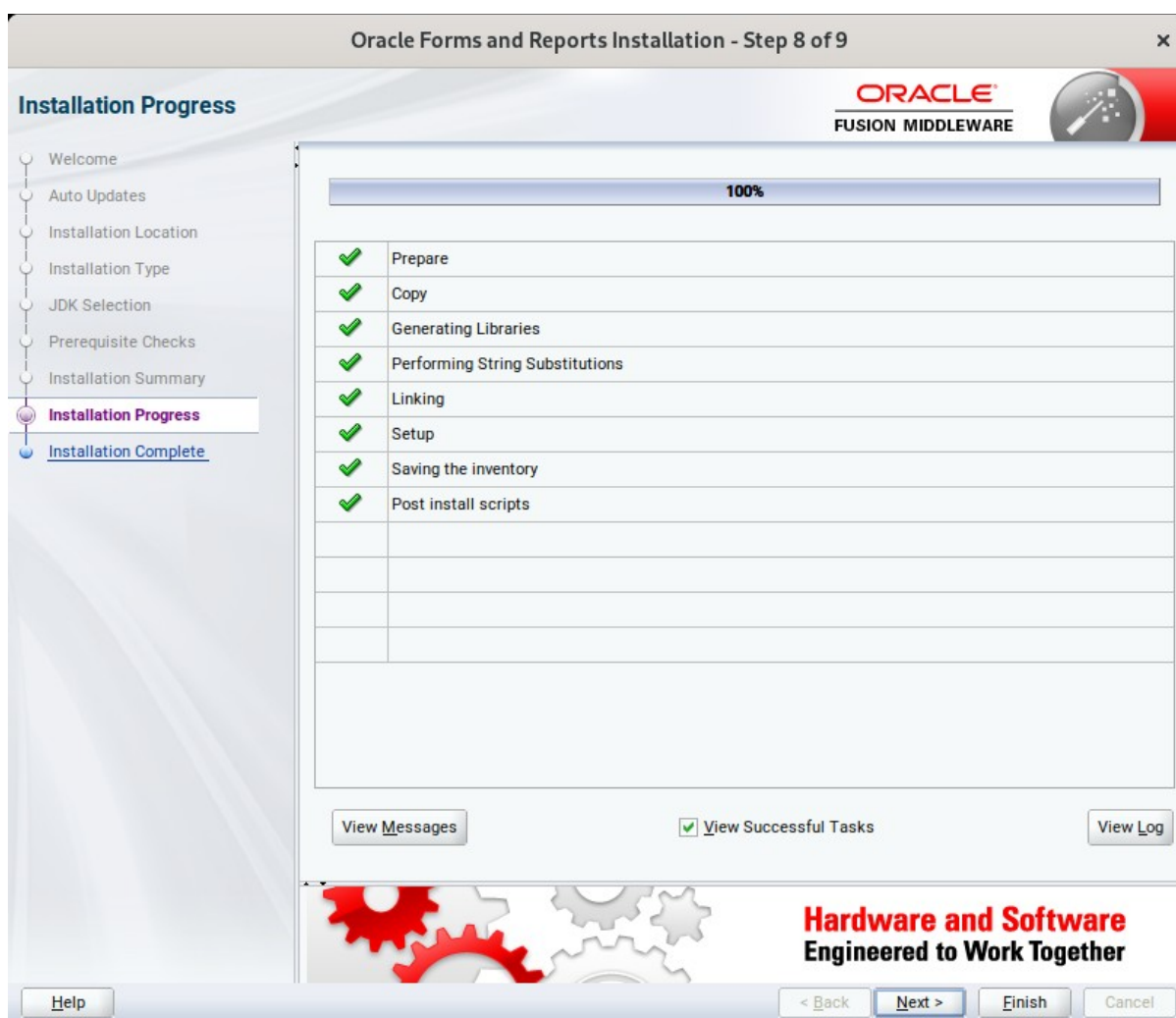
```
libaio-devel-32bit-0.3.109-1.25-x86_64
libaio-devel-0.3.109-1.25-x86_64
libcap2-2.63-150400.3.3.1-x86_64
libcap-ng0-0.7.9-4.37-x86_64
libcap2-32bit-2.63-150400.3.3.1-x86_64
libstdc++6-13.2.1+git8285-150000.1.9.1-x86_64
libstdc++6-devel-gcc7-7.5.0+r278197-150000.4.41.1-x86_64
libstdc++6-32bit-13.2.1+git8285-150000.1.9.1-x86_64
libstdc++6-devel-gcc7-32bit-7.5.0+r278197-150000.4.41.1-x86_64
libstdc++6-locale-13.2.1+git8285-150000.1.9.1-x86_64
libstdc++-devel-7-3.9.1-x86_64
libgcc_s1-13.2.1+git8285-150000.1.9.1-x86_64
libgcc_s1-32bit-13.2.1+git8285-150000.1.9.1-x86_64
make-4.2.1-7.3.2-x86_64
make-lang-4.2.1-7.3.2-noarch
makedumpfile-1.7.4-150600.1.3-x86_64
xorg-x11-7.6_1-1.22-noarch
xorg-x11-server-21.1.11-150600.3.2-x86_64
xorg-x11-fonts-7.6-13.6.1-noarch
xorg-x11-driver-video-7.6_1-9.10-x86_64
xorg-x11-Xvnc-1.13.1-150600.2.6-x86_64
xorg-x11-fonts-core-7.6-13.6.1-noarch
xorg-x11-server-extra-21.1.11-150600.3.2-x86_64
xorg-x11-essentials-7.6_1-1.22-noarch
)
```

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



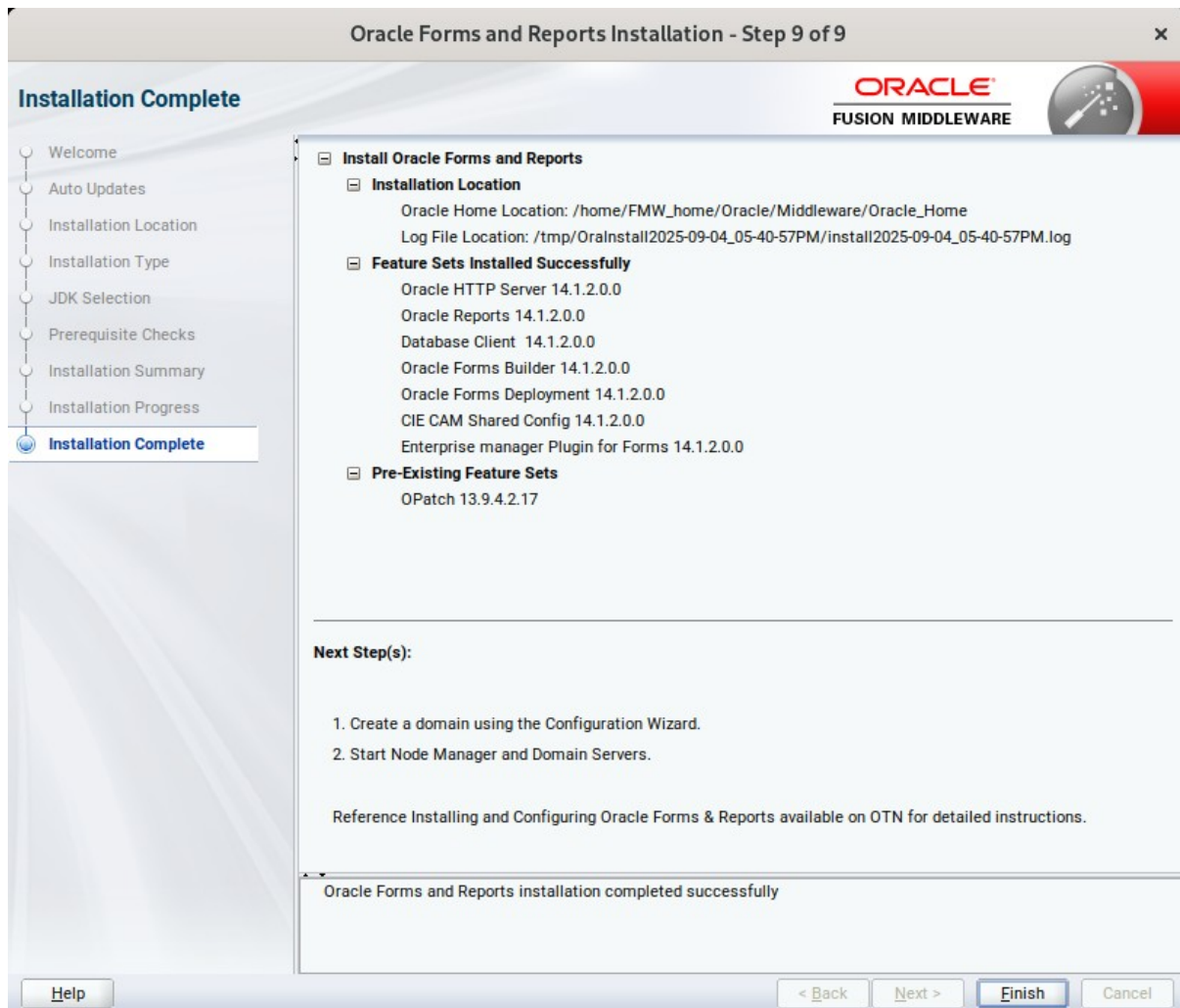
This page shows you what components and features are about to be installed. If you need to make changes, click **Back**, otherwise, click **Install** to start the installation.

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.



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 Fusion Middleware Infrastructure distribution. Run **\$FMW_HOME/oracle_common/bin/rcu** and create required database schemas for Oracle Forms and Reports.

Screenshot: Database schemas creating for Oracle Forms and Reports.

Repository Creation Utility - Step 4 of 8

Repository Creation Utility

Specify a unique prefix for all schemas created in this session, so you can easily locate, reference, and manage the schemas later.

Edition Name: ORA\$BASE

☐ Select existing prefix: DEV

☒ Create new prefix: DEV1

Alpha numeric only. Cannot start with a number. No special characters.

Component	Schema Owner
<input checked="" type="checkbox"/> Oracle AS Repository Components	
<input checked="" type="checkbox"/> AS Common Schemas	
<input checked="" type="checkbox"/> Common Infrastructure Services *	DEV1_STB
<input checked="" type="checkbox"/> Oracle Platform Security Services	DEV1_OPSS
<input checked="" type="checkbox"/> User Messaging Service	DEV1_UMS
<input checked="" type="checkbox"/> Audit Services	DEV1_JAU
<input checked="" type="checkbox"/> Audit Services Append	DEV1_JAU_APPEND
<input checked="" type="checkbox"/> Audit Services Viewer	DEV1_JAU_VIEWER
<input checked="" type="checkbox"/> Metadata Services	DEV1_MDS
<input checked="" type="checkbox"/> Weblogic Services *	DEV1_WLS

* Mandatory component. Mandatory components cannot be deselected.

Help < Back Next > Finish Cancel

Select the **Create new prefix** radio button and provide a schema prefix (such as DEV1). Select the following components: **Common Infrastructure Services***, **Oracle Platform Security Services**, **Audit Services**, **Audit Services Append**, **Audit Services Viewer** and **Weblogic Services***.

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

Ensure the schema creation is successful.

Repository Creation Utility - Step 8 of 8

Repository Creation Utility **ORACLE**
FUSION MIDDLEWARE

Database details:

Host Name: c3n1
Port: 1521
Service Name: SLES_PDB
Connected As: sys
Operation: System and Data Load concurrently
Execution Time: 4 minutes 29 seconds

RCU Logfile: /tmp/RCU2025-09-04_17-47_173858881/logs/rcu.log
Component Log: /tmp/RCU2025-09-04_17-47_173858881/logs
Directory: /tmp/RCU2025-09-04_17-47_173858881/logs
View Log: [rcu.log](#)

Prefix for (prefixable): DEV1
Schema Owners

Component	Status	Time	Logfile(Click to view)
Common Infrastructure Services	Success	00:14.720(sec)	stb.log
Oracle Platform Security Services	Success	01:12.621(min)	opss.log
User Messaging Service	Success	00:23.259(sec)	ucsums.log
Audit Services	Success	00:39.003(sec)	iau.log
Audit Services Append	Success	00:13.213(sec)	iau_append.log
Audit Services Viewer	Success	00:13.209(sec)	iau_viewer.log
Metadata Services	Success	00:30.679(sec)	mds.log
Weblogic Services	Success	00:32.434(sec)	wls.log

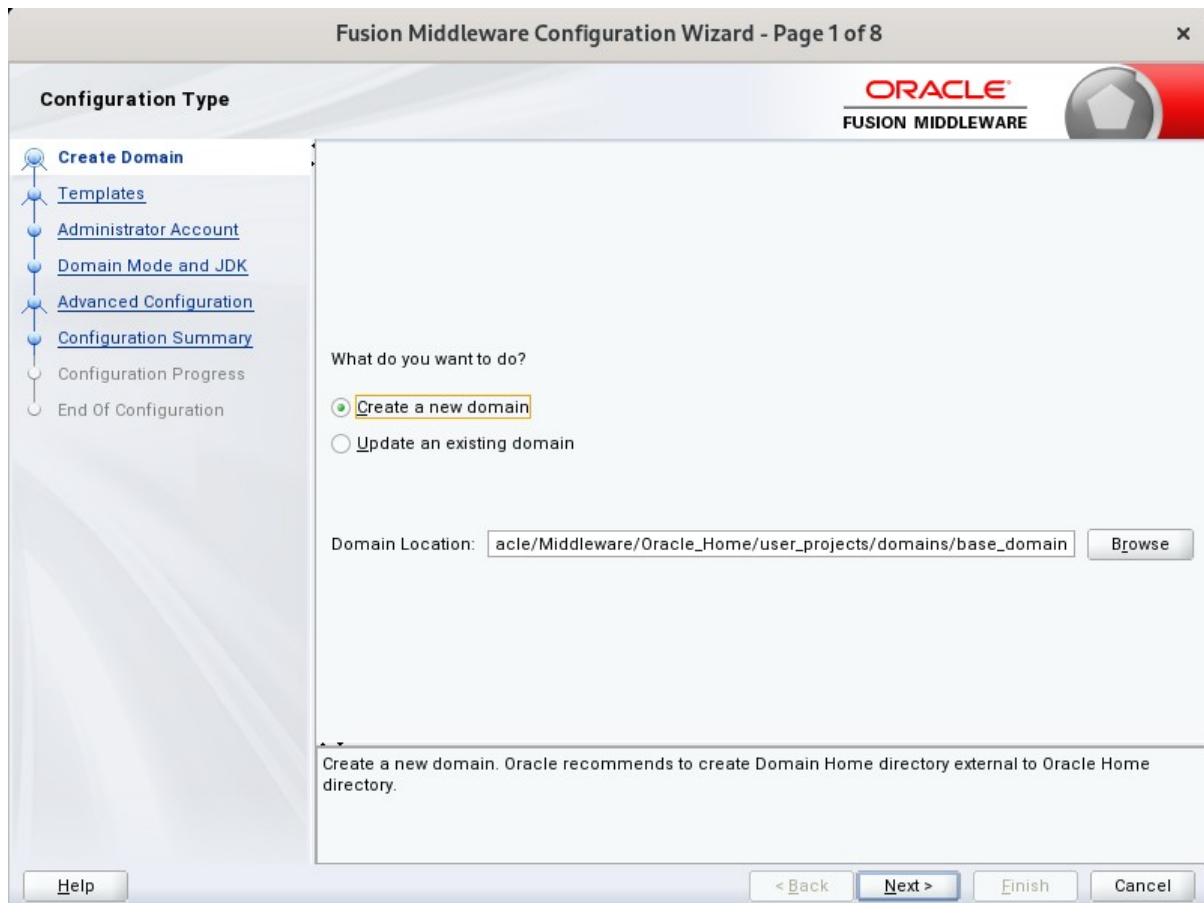
Help < Back Next > Create Close

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.

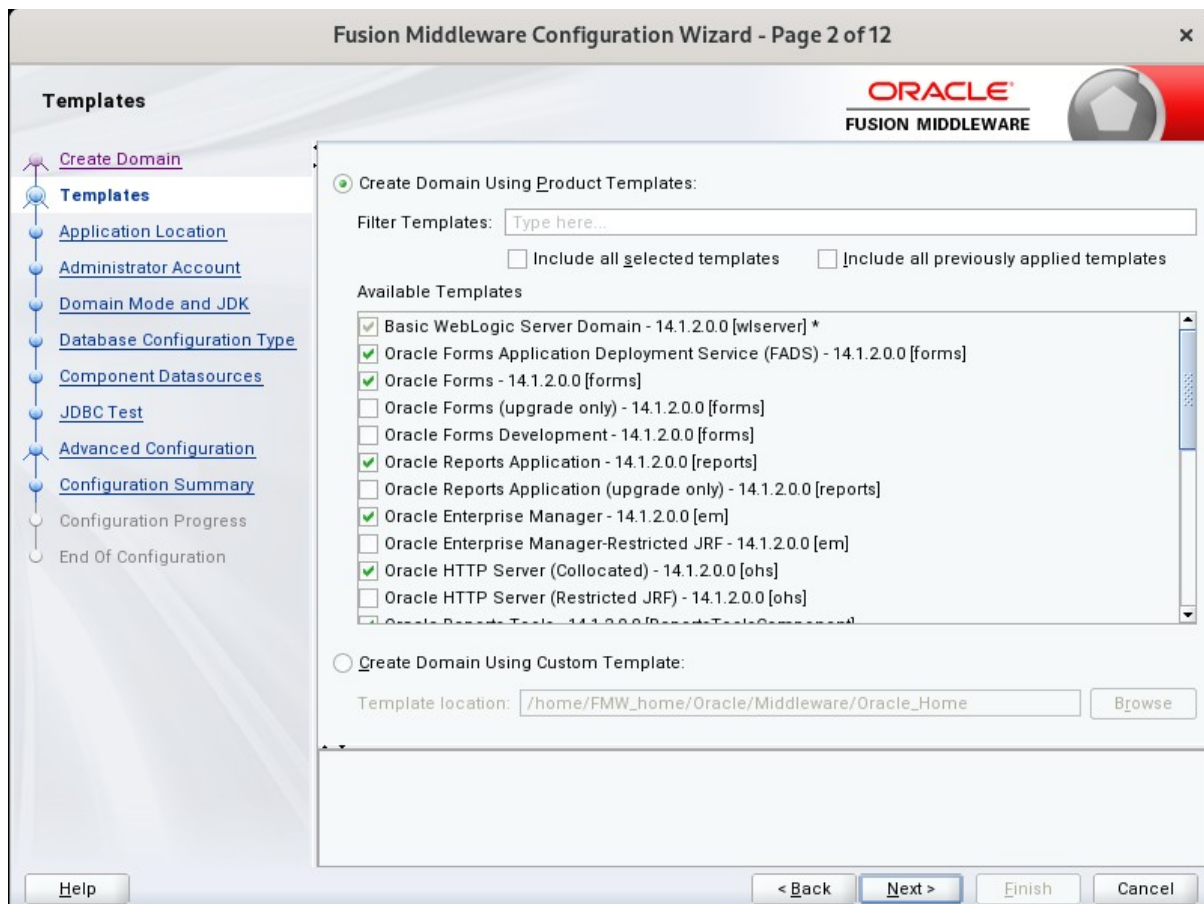
Follow these steps:

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



Click **Next** to continue.

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



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

Commonly used templates:

Oracle Forms Application Deployment Services (FADS) - [forms]

Oracle Forms – [forms],

Oracle Reports Server – [ReportsServerComponent],

Oracle Reports Tools – [ReportsToolsComponent],

Oracle Reports Bridge – [ReportsBridgeComponent],

Oracle Reports Application – [reports]

and **Oracle HTTP Server(Collocated) – [ohs]**.

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

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



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

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



The screenshot shows the 'Administrator Account' screen of the Fusion Middleware Configuration Wizard. The title bar indicates 'Fusion Middleware Configuration Wizard - Page 4 of 12'. The Oracle logo and 'FUSION MIDDLEWARE' text are in the top right. A sidebar on the left lists the configuration steps: 'Create Domain', 'Templates', 'Application Location', 'Administrator Account' (selected), 'Domain Mode and JDK', 'Database Configuration Type', 'Component Datasources', 'JDBC Test', 'Advanced Configuration', 'Configuration Summary', 'Configuration Progress', and 'End Of Configuration'. The main area contains three input fields: 'Name' with the value 'weblogic', 'Password' with masked characters '.....', and 'Confirm Password' with masked characters '.....'. Below these fields is a note: 'Must be the same as the password. Password must contain at least 8 alphanumeric characters with at least one number or special character.' At the bottom, there are buttons for 'Help', '< Back', 'Next >', 'Finish', and 'Cancel'.

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

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

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

(**Note:** Select **Production** Mode to give your environment a higher degree of security. You need to enter a user name and password to deploy applications and to start the Administration Server.

As of FMW 14.1.2.0.0, when you select **Production** mode, FMW automatically sets some of the security configurations of **Secured Production** to more secure values. However, there are certain security configurations (such as SSL/TLS) that require manual configuration. If you want to disable the more secure default settings, then you may select **Disable Secure Mode**. This will enable the non-SSL listen ports.

If you want to retain the more secure default settings of **Secured Production** mode in general, but want to change which ports (listen ports, SSL listen ports, or administration ports) will be enabled by default in your domain, then you may:

- Leave **Disable Secure Mode** unselected, and
- Change the default port selections under **Enable or Disable Default Ports for Your Domain**.

)

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

The screenshot shows the 'Database Configuration Type' screen in the Fusion Middleware Configuration Wizard. The title bar indicates 'Fusion Middleware Configuration Wizard - Page 6 of 12'. The Oracle logo and 'FUSION MIDDLEWARE' text are in the top right corner. A sidebar on the left lists the wizard steps: 'Create Domain', 'Templates', 'Application Location', 'Administrator Account', 'Domain Mode and JDK', 'Database Configuration Type' (selected), 'Component Datasources', 'JDBC Test', 'Advanced Configuration', 'Configuration Summary', 'Configuration Progress', and 'End Of Configuration'. The main area is titled 'Specify AutoConfiguration Options Using:' and has two radio buttons: 'RCU Data' (selected) and 'Manual Configuration'. Below this, a text box explains: '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.' The 'Vendor' dropdown is set to 'Oracle' and the 'Driver' dropdown is set to '*Oracle's Driver (Thin) for Service connections; Versi...'. There are two radio buttons for 'Connection Parameters' (selected) and 'Connection URL String'. The 'Host Name' field contains 'c3n1'. The 'DBMS/Service' field contains 'sles_pdb' and the 'Port' field contains '1521'. The 'Schema Owner' field contains 'DEV1_STB' and the 'Schema Password' field contains '.....'. There are 'Get RCU Configuration' and 'Cancel' buttons. Below these is a 'Connection Result Log' section showing the following text: 'Connecting to the database server...OK', 'Retrieving schema data from database server...OK', 'Binding local schema components with retrieved data...OK', and 'Successfully Done.'. At the bottom of the log, it says 'Click 'Next' button to continue.'. The bottom of the window has a 'Help' button on the left and '< Back', 'Next >', 'Finish', and 'Cancel' buttons on the right.

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

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

JDBC Component Schema

Vendor: Driver:

☐ Connection Parameters ☒ Connection URL String

URL: [Connection Properties](#)

Schema Owner: Schema Password:

Oracle RAC configuration for component schemas:

☐ Convert to GridLink ☐ Convert to RAC multi data source ☐ Don't convert

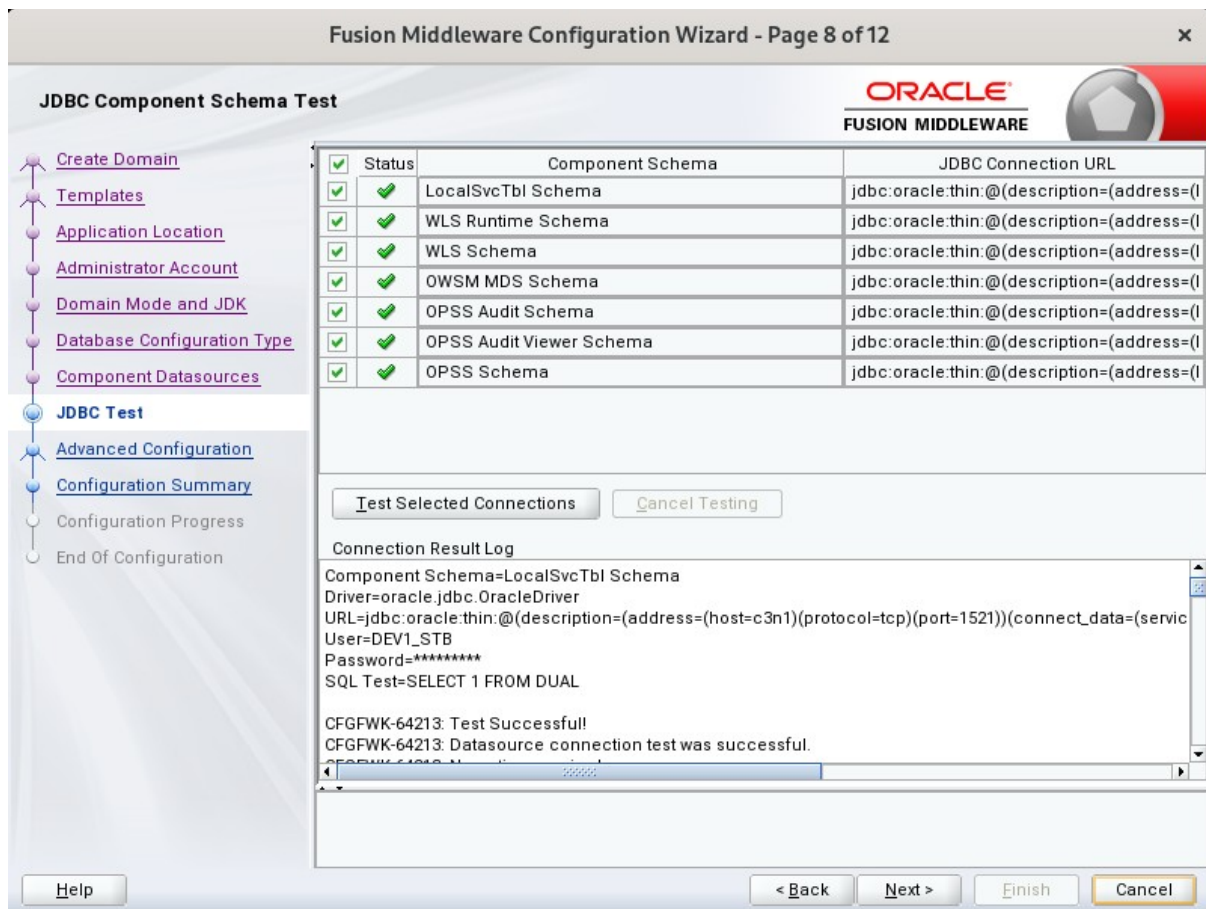
Edits to the data above will affect all checked rows in the table below.

<input type="checkbox"/>	Component Schema	URL	Schema Owner	Schema Password
<input type="checkbox"/>	LocalSvcTbl Schema	jdbc:oracle:thin:@(description=(address=	DEV1_STB	.....
<input type="checkbox"/>	WLS Runtime Schema	jdbc:oracle:thin:@(description=(address=	DEV1_WLS_RUN	.....
<input type="checkbox"/>	WLS Schema	jdbc:oracle:thin:@(description=(address=	DEV1_WLS	.....
<input type="checkbox"/>	OWSM MDS Schema	jdbc:oracle:thin:@(description=(address=	DEV1_MDS	.....
<input type="checkbox"/>	OPSS Audit Schema	jdbc:oracle:thin:@(description=(address=	DEV1_IAU_APPE	.....
<input type="checkbox"/>	OPSS Audit Viewer Schema	jdbc:oracle:thin:@(description=(address=	DEV1_IAU_VIEWE	.....
<input type="checkbox"/>	OPSS Schema	jdbc:oracle:thin:@(description=(address=	DEV1_OPSS	.....

Help < Back **Next >** Finish Cancel

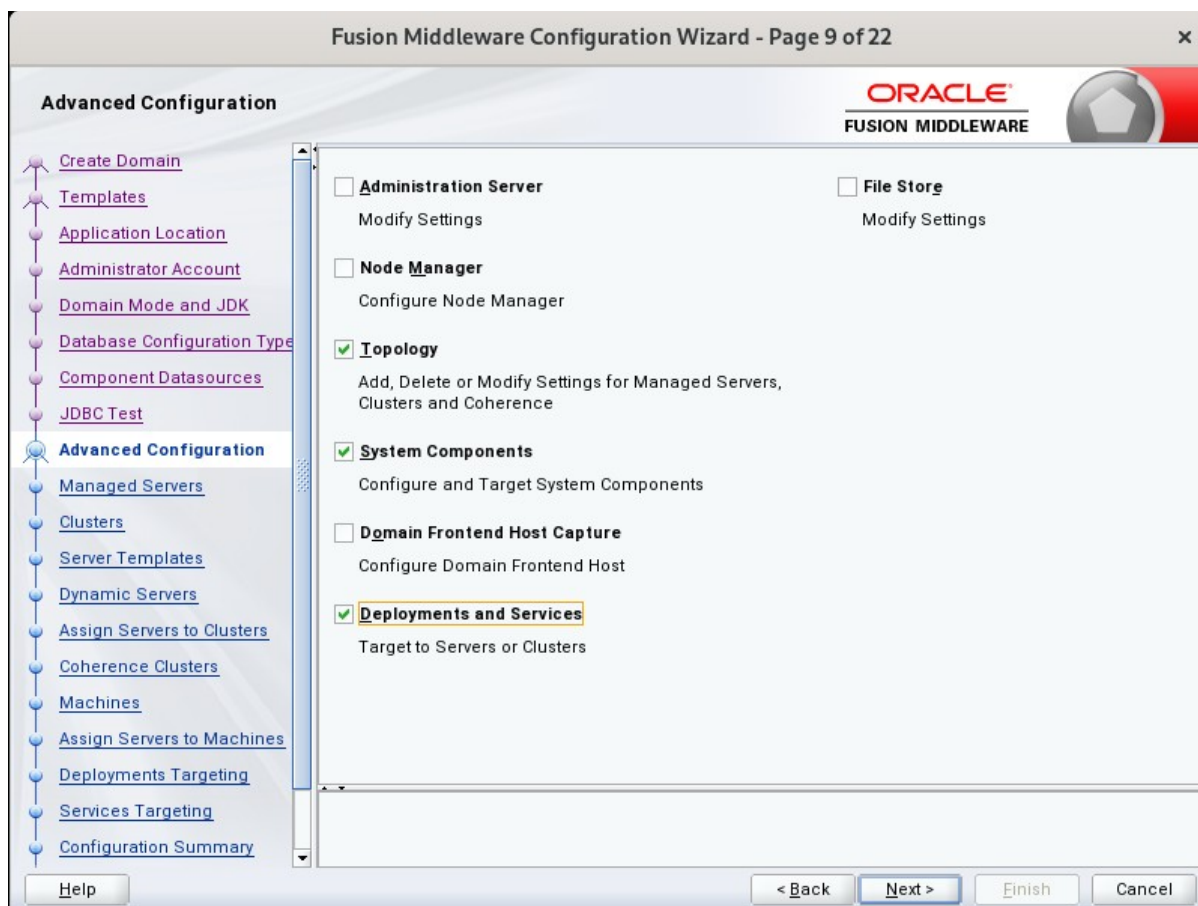
Our instructions assume each Repository schema uses the same password. If not, enter the correct schema passwords. Click **Next** to continue.

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.

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

Fusion Middleware Configuration Wizard - Page 10 of 22

ORACLE
FUSION MIDDLEWARE

Managed Servers

+ Add Clone X Delete Discard Changes

Server Name	Listen Address	Enable Listen	Listen Port	Enable SSL Port	SSL Listen Port	Administration Port	Server Groups
WLS_FORMS	All Local A...	✓	9001	✓	9501	Disabled	FORM...
WLS_REPORTS	All Local A...	✓	9012	✓	9512	Disabled	REPO...

Help < Back Next > Finish Cancel

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

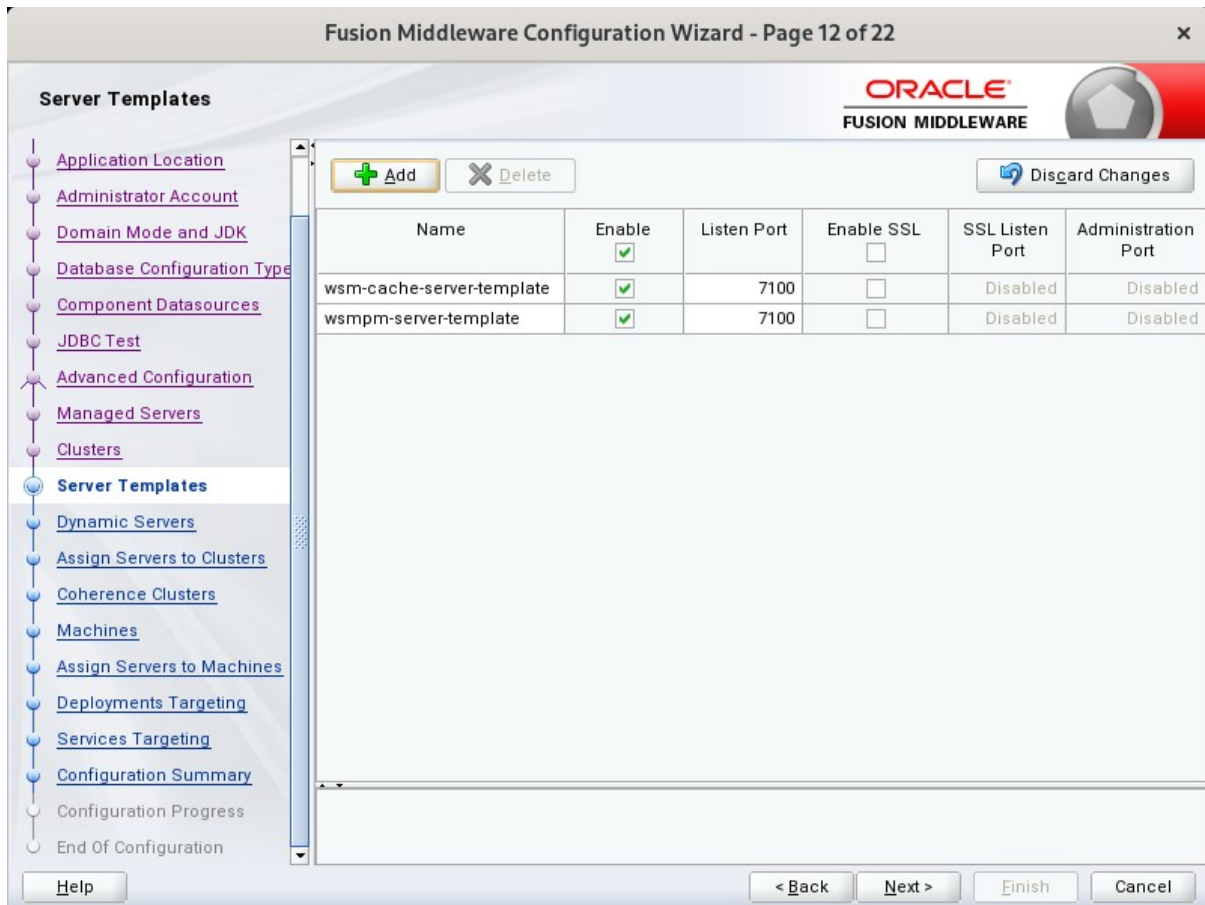
11). The **Clusters** screen appears.

The screenshot shows the 'Clusters' screen in the Fusion Middleware Configuration Wizard. The title bar indicates 'Fusion Middleware Configuration Wizard - Page 11 of 22'. The Oracle logo and 'FUSION MIDDLEWARE' text are in the top right. A sidebar on the left lists configuration steps, with 'Clusters' selected. The main area contains a table with two rows: 'cluster_forms' and 'cluster_reports'. Above the table are buttons for '+ Add', 'X Delete', and 'Discard Changes'. Below the table are navigation buttons: '< Back', 'Next >', 'Finish', and 'Cancel'. A 'Help' button is at the bottom left.

Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS
cluster_forms			0	0
cluster_reports			0	0

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

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



Fusion Middleware Configuration Wizard - Page 12 of 22

ORACLE
FUSION MIDDLEWARE

Server Templates

+ Add X Delete Discard Changes

Name	Enable	Listen Port	Enable SSL	SSL Listen Port	Administration Port
wsm-cache-server-template	<input checked="" type="checkbox"/>	7100	<input type="checkbox"/>	Disabled	Disabled
wsmppm-server-template	<input checked="" type="checkbox"/>	7100	<input type="checkbox"/>	Disabled	Disabled

Help < Back Next > Finish Cancel

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

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

Fusion Middleware Configuration Wizard - Page 13 of 22

Dynamic Servers

ORACLE
FUSION MIDDLEWARE

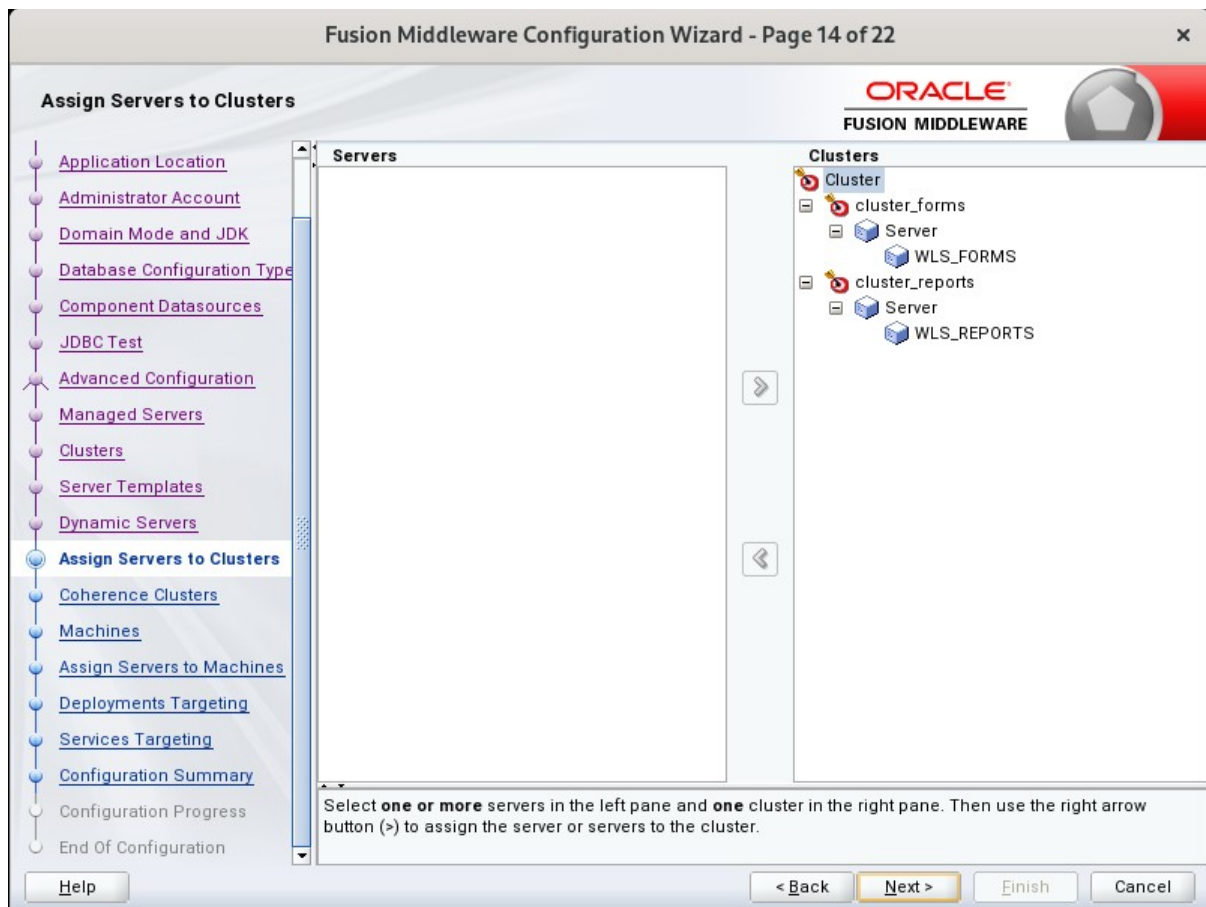
Discard Changes

Cluster Name	Server Name Prefix	Server Template	Dynamic Cluster Size	Machine Name Match Expression	Calculated Machine Names	Calculated Listen Ports	Dynamic Server Groups
cluster_forms	Disabled	Unspeci...	Disabled	Disabled	<input type="checkbox"/>	<input type="checkbox"/>	Unspeci...
cluster_reports	Disabled	Unspeci...	Disabled	Disabled	<input type="checkbox"/>	<input type="checkbox"/>	Unspeci...

Help < Back Next > Finish Cancel

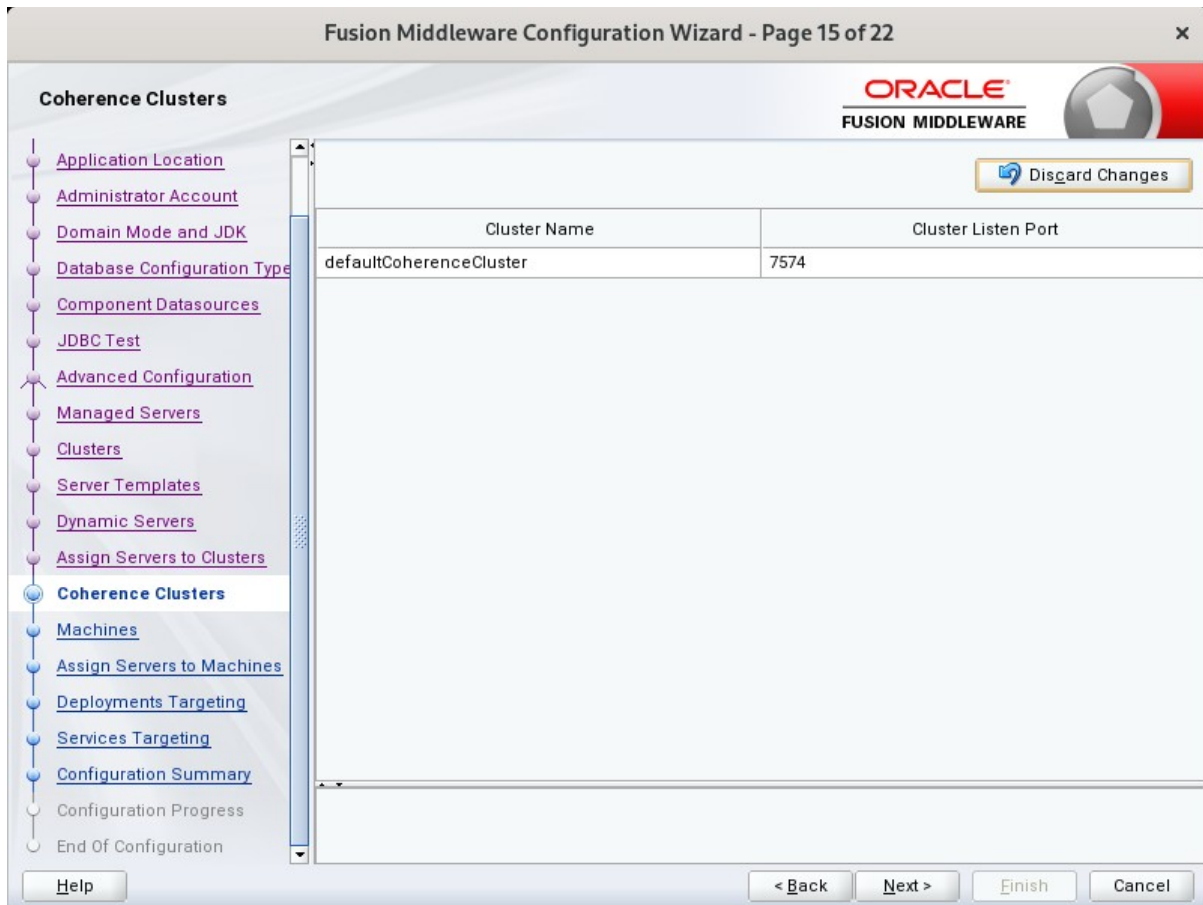
The default values will be appropriate for most cases. Click **Next** to continue.

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.

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



Fusion Middleware Configuration Wizard - Page 15 of 22

ORACLE
FUSION MIDDLEWARE

Coherence Clusters

Discard Changes

Cluster Name	Cluster Listen Port
defaultCoherenceCluster	7574

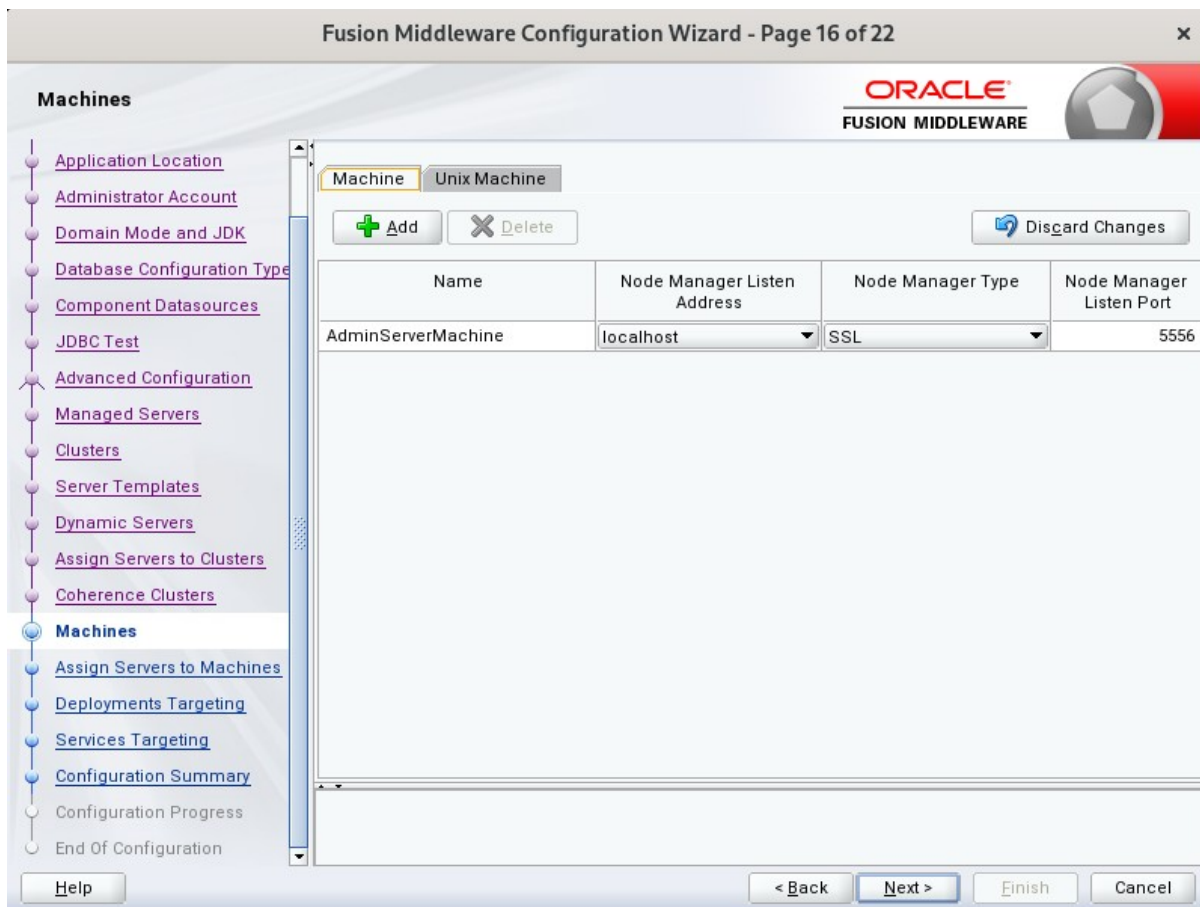
Application Location
Administrator Account
Domain Mode and JDK
Database Configuration Type
Component Datasources
JDBC Test
Advanced Configuration
Managed Servers
Clusters
Server Templates
Dynamic Servers
Assign Servers to Clusters
Coherence Clusters
Machines
Assign Servers to Machines
Deployments Targeting
Services Targeting
Configuration Summary
Configuration Progress
End Of Configuration

Help

< Back Next > Finish Cancel

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

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



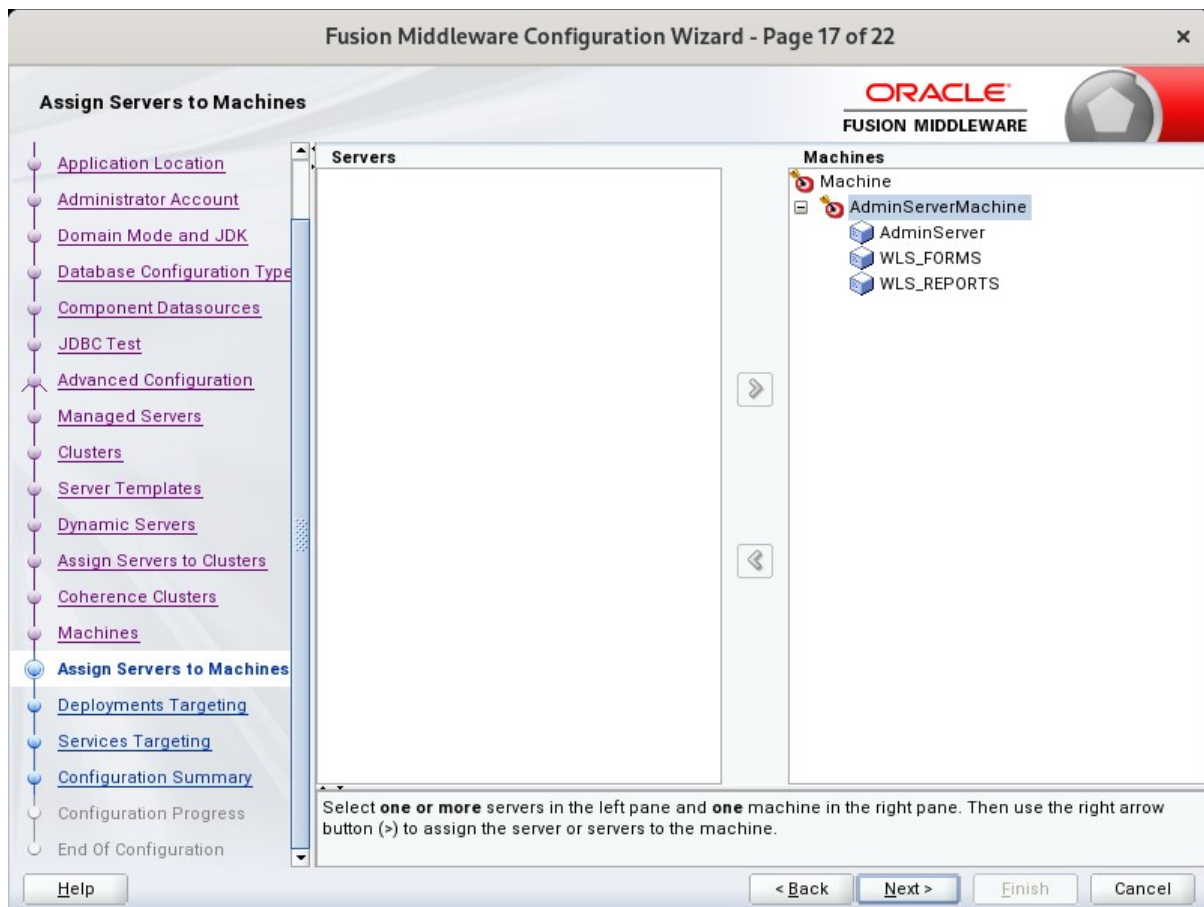
The screenshot shows the 'Machines' screen in the Fusion Middleware Configuration Wizard. The title bar indicates 'Fusion Middleware Configuration Wizard - Page 16 of 22'. The Oracle Fusion Middleware logo is in the top right. On the left, a navigation pane lists various configuration steps, with 'Machines' currently selected. The main area is titled 'Machines' and contains a tabbed interface with 'Machine' and 'Unix Machine' tabs. Below the tabs are 'Add' and 'Delete' buttons, and a 'Discard Changes' button. A table lists the configured machines:

Name	Node Manager Listen Address	Node Manager Type	Node Manager Listen Port
AdminServerMachine	localhost	SSL	5556

At the bottom of the window are buttons for '< Back', 'Next >', 'Finish', and 'Cancel'. A 'Help' button is located in the bottom left corner of the main area.

You can use this screen to override the machine name or add additional 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.

18). The **System Components** screen appears.

The screenshot shows the 'System Components' screen in the Fusion Middleware Configuration Wizard. The window title is 'Fusion Middleware Configuration Wizard - Page 18 of 24'. The Oracle logo and 'FUSION MIDDLEWARE' text are in the top right. A sidebar on the left lists various configuration steps, with 'System Components' highlighted. The main area contains a table with two rows: 'forms1' (FORMS) and 'ohs1' (OHS). Above the table are buttons for '+ Add', '- Delete', and 'Discard Changes'. At the bottom are buttons for '< Back', 'Next >', 'Finish', and 'Cancel'.

System Component	Component Type	Restart Interval Seconds	Restart Delay Seconds
forms1	FORMS	3600	0
ohs1	OHS	3600	0

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.

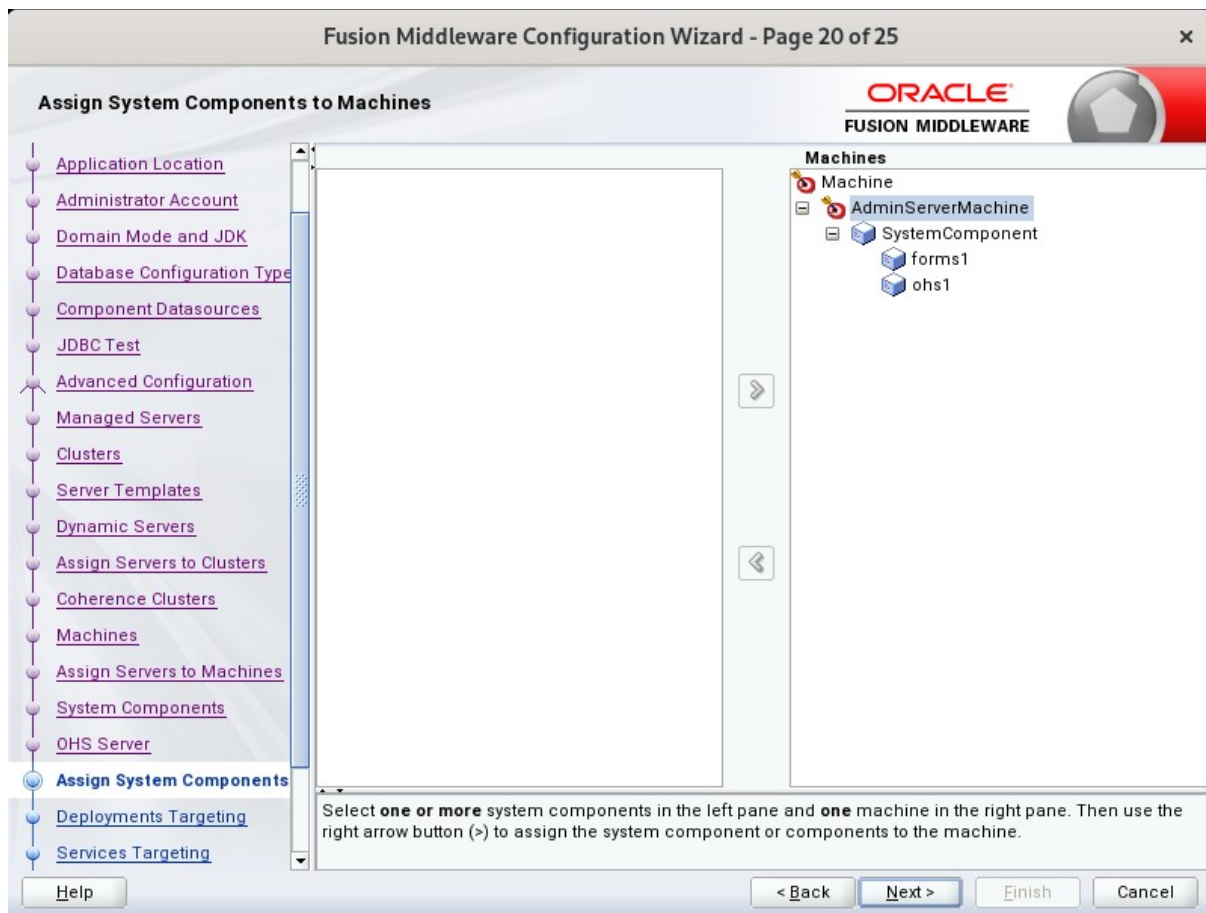
19). The **OHS Server** screen appears.

The screenshot displays the 'OHS Server' configuration screen within the 'Fusion Middleware Configuration Wizard - Page 19 of 25'. The interface includes a sidebar on the left with a tree view of configuration steps, where 'OHS Server' is currently selected. The main area contains several input fields for configuring the OHS Server. The 'System Component' is set to 'ohs1'. The 'Admin Host' is '127.0.0.1', 'Admin Port' is '7779', 'Listen Address' is empty, 'Listen Port' is '7777', 'SSL Listen Port' is '4443', and 'Server Name' is 'http://localhost:7777'. At the bottom, there are buttons for '< Back', 'Next >', 'Finish', and 'Cancel', along with a 'Help' button.

Field	Value
System Component	ohs1
Admin Host	127.0.0.1
Admin Port	7779
Listen Address	
Listen Port	7777
SSL Listen Port	4443
Server Name	http://localhost:7777

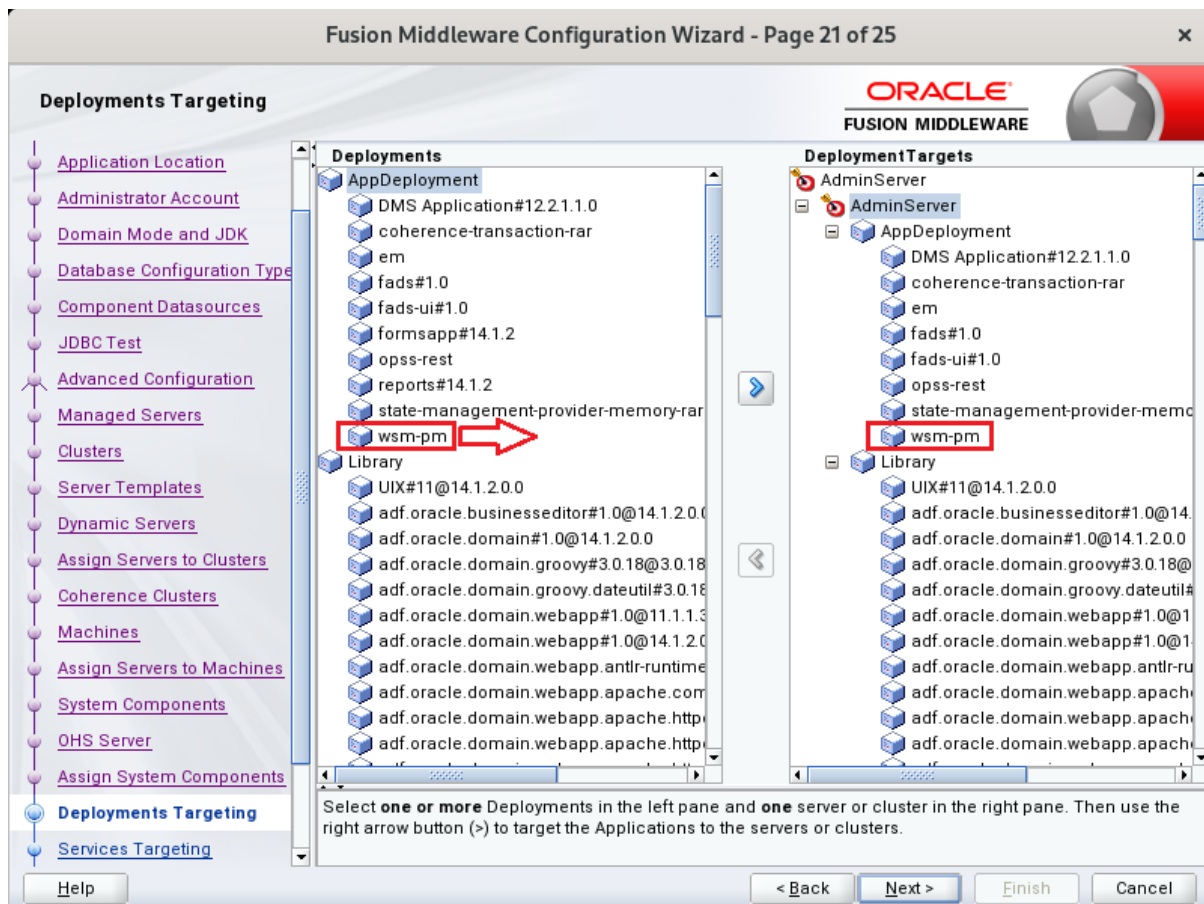
The default values will be appropriate for most cases. Click **Next** to continue.

20). The **Assign System Components to Machines** screen appears.



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

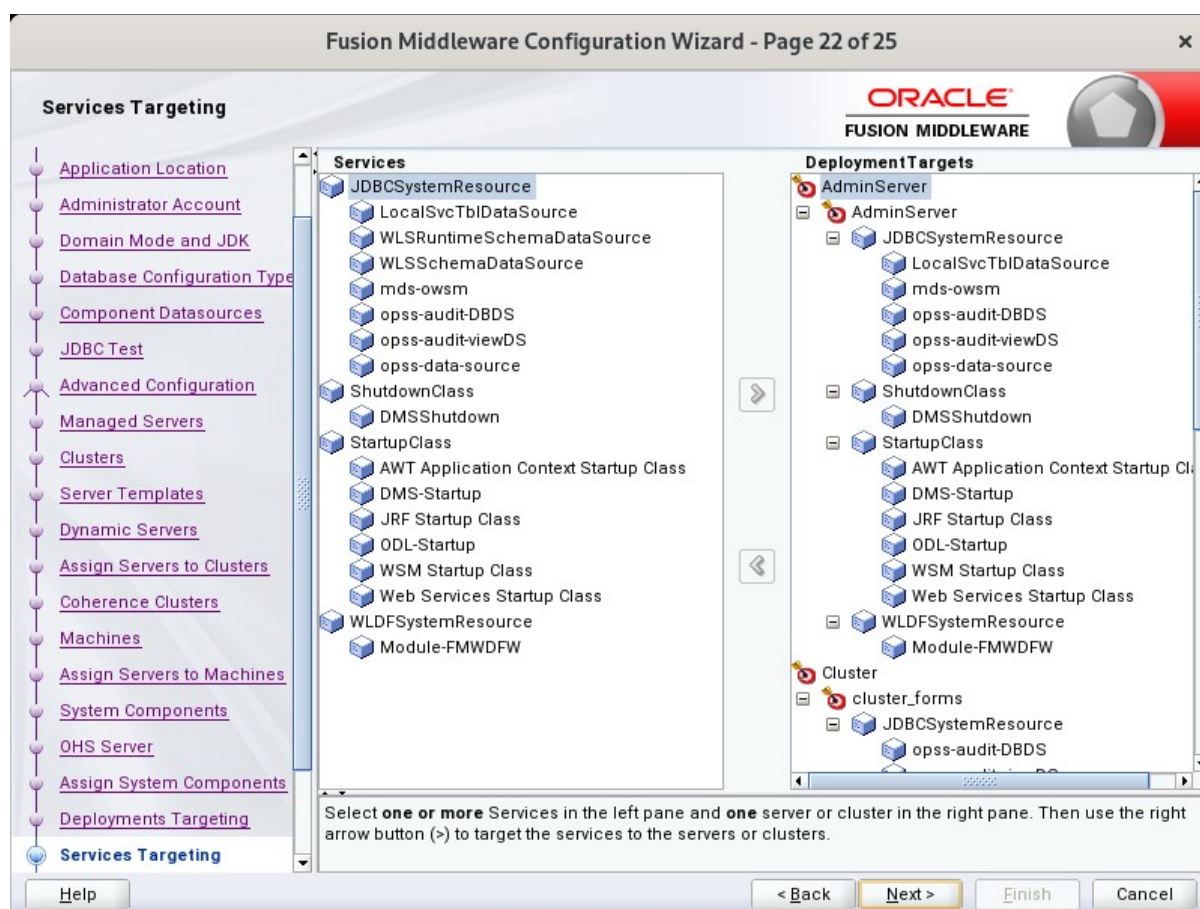
21). The **Deployments Targeting** screen appears.



Select one or more Deployments in the left pane and one server or cluster in the right pane, use the right arrow button ">" to target the applications to the servers or clusters. Then click **Next** to continue.

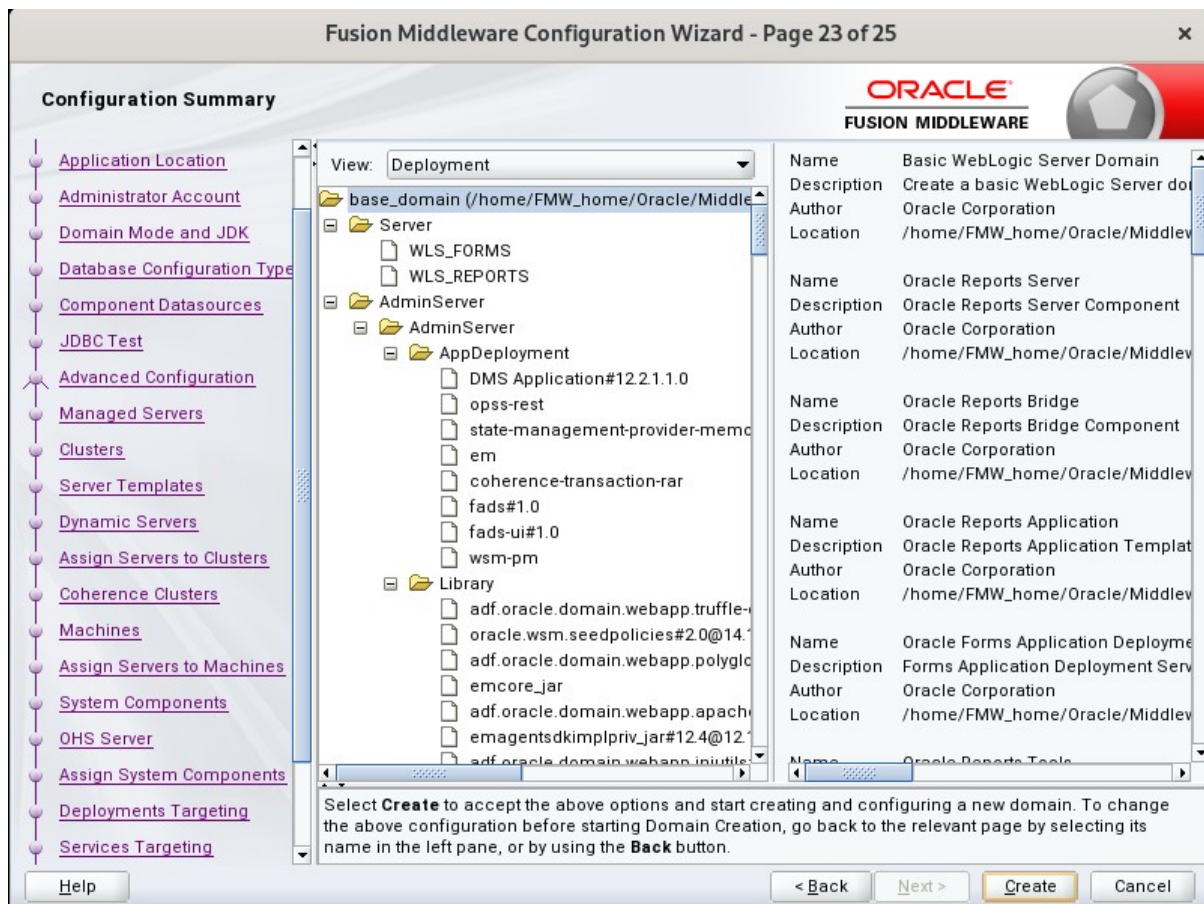
(Note: The app-svc-name "wsm-pm" must have target, please use the right arrow button ">" to target the application to the **AdminServer**.)

22). The **Services Targeting** screen appears.



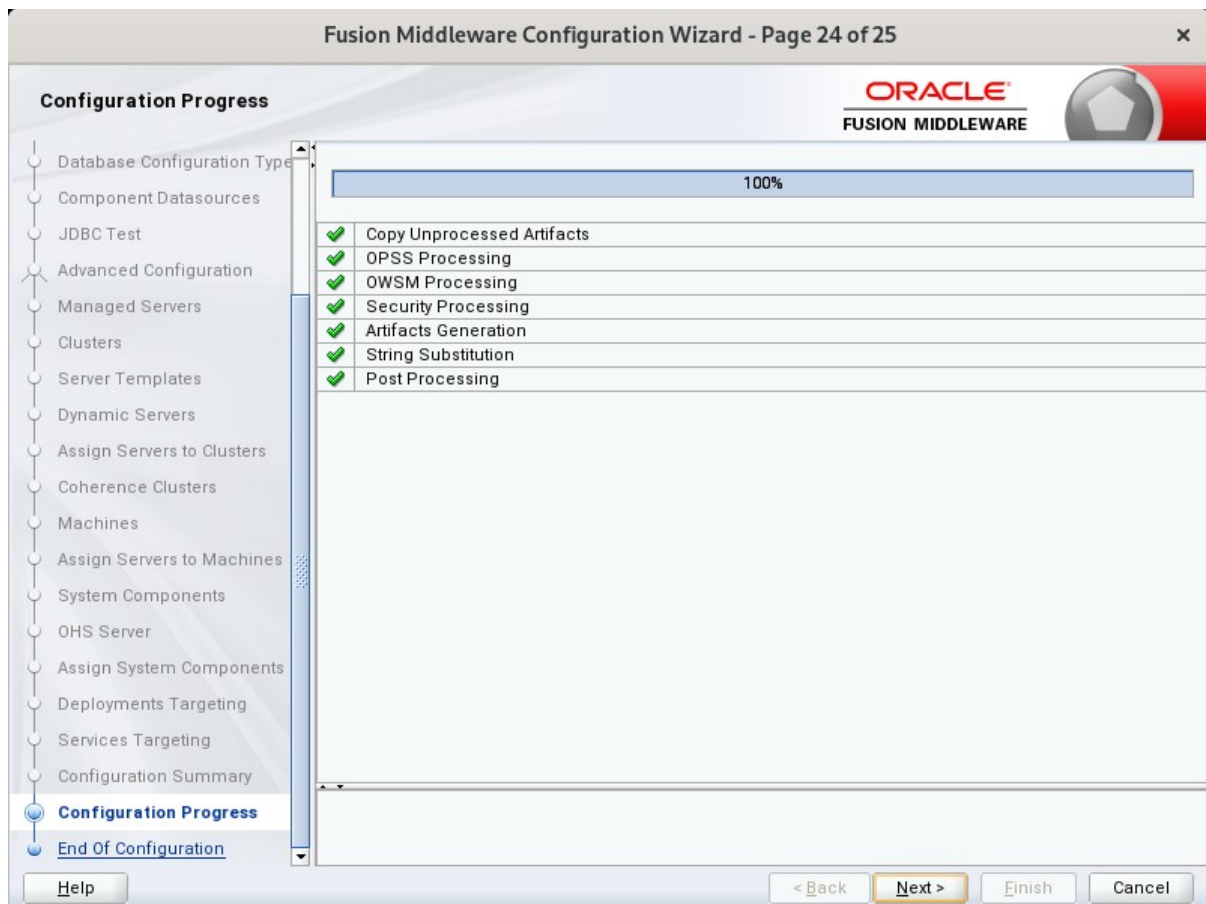
Select one or more Services in the left pane and one server or cluster in the right pane, then use the right arrow button “>” to target the services to the servers or clusters. Click **Next** to continue.

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



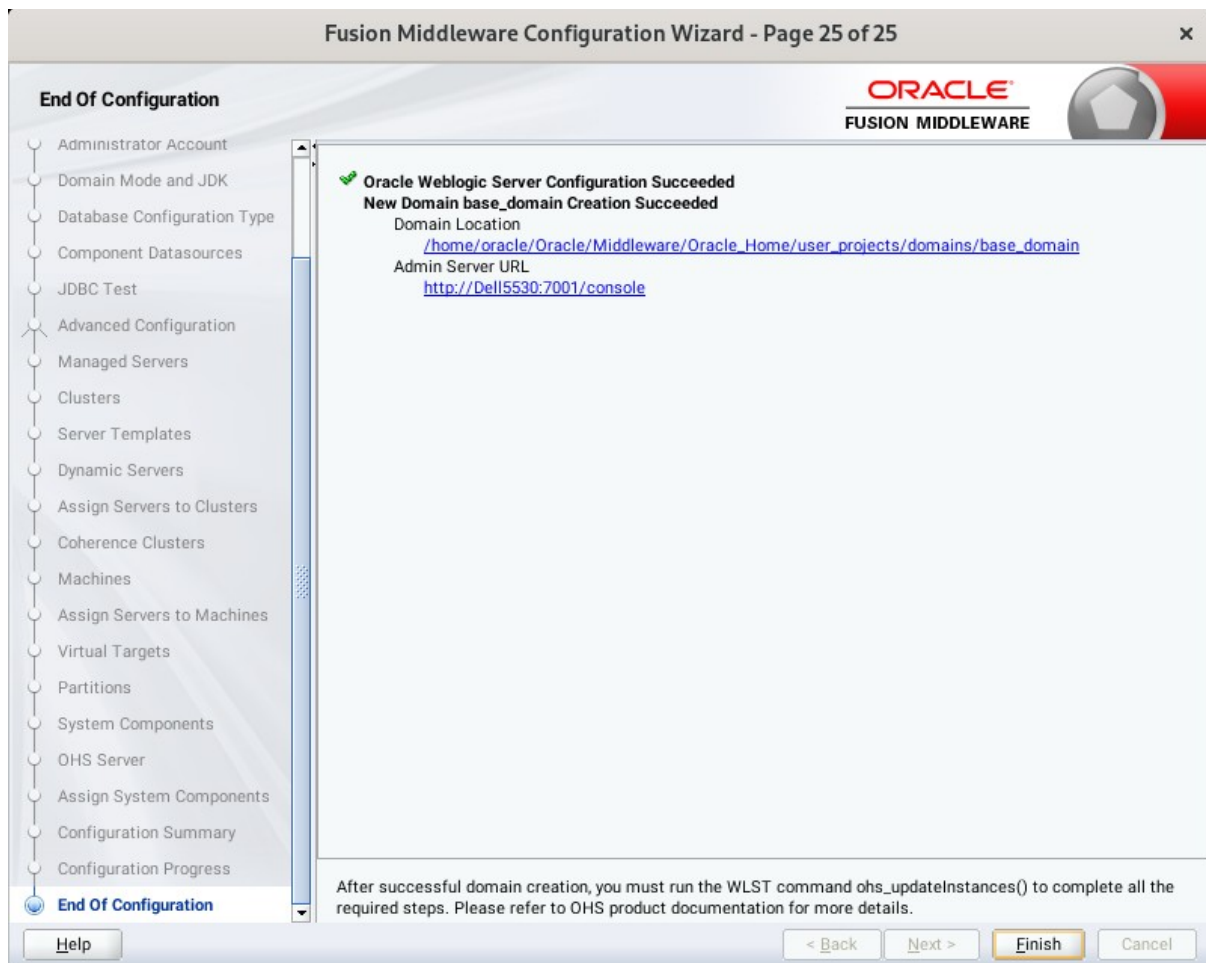
Select **Create** to accept the above options and start creating and configuring a new domain.

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



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.



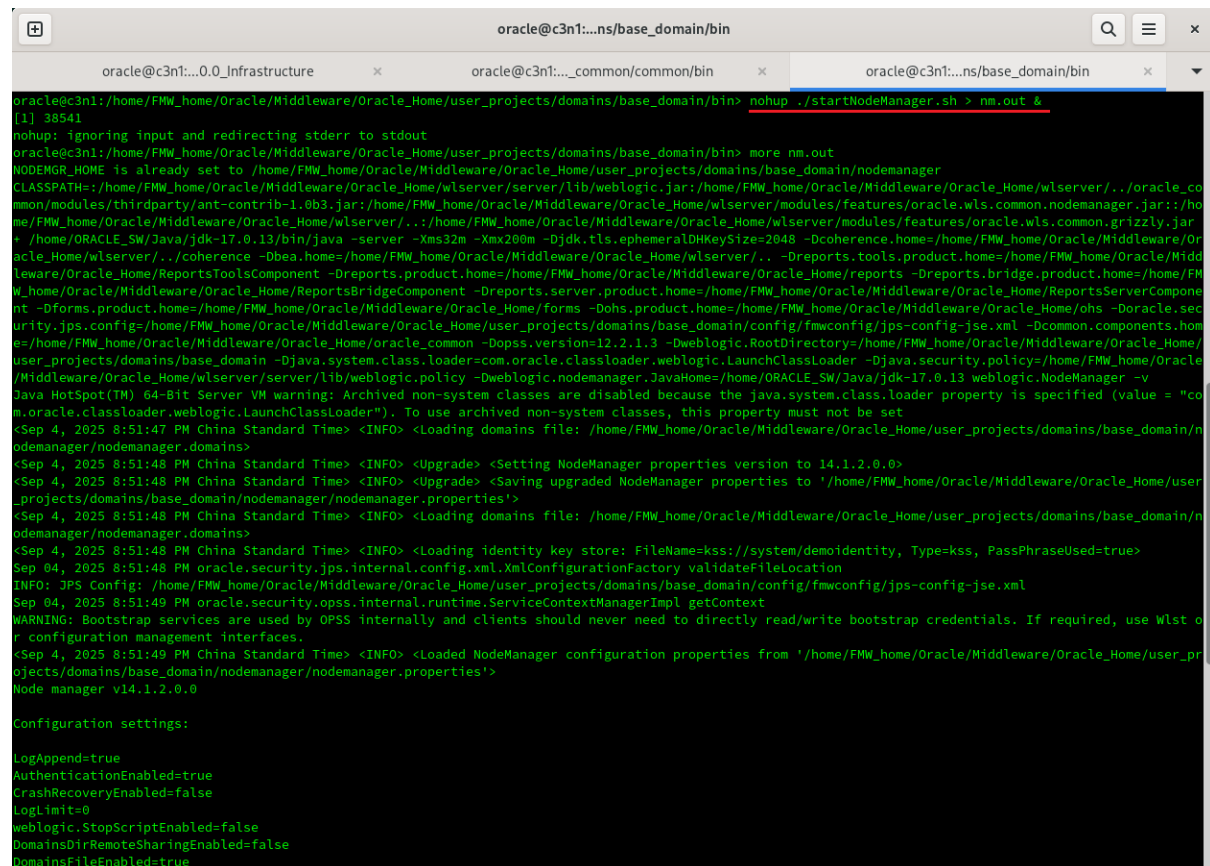
Once the message displays: "Oracle Weblogic Server Configuration Succeeded", record the '**Domain Location**' and '**Admin Server URL**', then click **Finish** to dismiss the Configuration Wizard.

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 &'**



```

oracle@c3n1:...ns/base_domain/bin
[1] 38541
nohup: ignoring input and redirecting stderr to stdout
oracle@c3n1:/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/bin> more nm.out
NODEMGR_HOME is already set to /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/nodemanager
CLASSPATH=/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/server/lib/weblogic.jar:/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/..../oracle.co
mmon/modules/thirdparty/ant-contrib-1.8b3.jar:/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/modules/features/oracle.wls.common.nodemanager.jar:/ho
me/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/..../home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/modules/features/oracle.wls.common.grizzly.jar
:/home/ORACLE_SW/Java/jdk-17.0.13/bin/java -server -Xms32m -Xmx256m -Djdk.tls.ephemeralDHKeySize=2048 -Dcoherence.homes=/home/FMW_home/Oracle/Middleware/Or
acle_Home/wlserver/..../coherence -Dbea.homes=/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/.. -Dreports.tools.product.homes=/home/FMW_home/Oracle/Midd
leware/Oracle_Home/ReportsToolsComponent -Dreports.product.homes=/home/FMW_home/Oracle/Middleware/Oracle_Home/reports -Dreports.bridge.product.homes=/home/FM
W_home/Oracle/Middleware/Oracle_Home/ReportsBridgeComponent -Dreports.server.product.homes=/home/FMW_home/Oracle/Middleware/Oracle_Home/ReportsServerCompone
nt -Dforms.product.homes=/home/FMW_home/Oracle/Middleware/Oracle_Home/forms -Dohs.product.homes=/home/FMW_home/Oracle/Middleware/Oracle_Home/ohs -Doracle.sec
urity.jps.config=/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/jps-config-jse.xml -Dcommon.components.homes=/home/FMW_home/Oracle/Middleware/Oracle_Home/oracle_common -Dopss.version=12.2.1.3 -Dweblogic.RootDirectory=/home/FMW_home/Oracle/Middleware/Oracle_Home/
user_projects/domains/base_domain -Djava.system.class.loader=com.oracle.classloader.weblogic.LaunchClassLoader -Djava.security.policy=/home/FMW_home/Oracle
/Middleware/Oracle_Home/wlserver/server/lib/weblogic.policy -Dweblogic.nodemanager.JavaHome=/home/ORACLE_SW/Java/jdk-17.0.13 weblogic.NodeManager -v
Java HotSpot(TM) 64-Bit Server VM warning: Archived non-system classes are disabled because the java.system.class.loader property is specified (value = "co
m.oracle.classloader.weblogic.LaunchClassLoader"). To use archived non-system classes, this property must not be set
<Sep 4, 2025 8:51:47 PM China Standard Time> <INFO> <Loading domains file: /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/n
odemanager/nodemanager.domains>
<Sep 4, 2025 8:51:48 PM China Standard Time> <INFO> <Upgrade> <Setting NodeManager properties version to 14.1.2.0.0>
<Sep 4, 2025 8:51:48 PM China Standard Time> <INFO> <Upgrade> <Saving upgraded NodeManager properties to '/home/FMW_home/Oracle/Middleware/Oracle_Home/user
_projects/domains/base_domain/nodemanager/nodemanager.properties'>
<Sep 4, 2025 8:51:48 PM China Standard Time> <INFO> <Loading domains file: /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/n
odemanager/nodemanager.domains>
<Sep 4, 2025 8:51:48 PM China Standard Time> <INFO> <Loading identity key store: FileName=kss://system/demoidentity, Type=kss, PassPhraseUsed=true>
Sep 04, 2025 8:51:48 PM oracle.security.jps.internal.config.xml.XmlConfigurationFactory validateFileLocation
INFO: JPS Config: /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/jps-config-jse.xml
Sep 04, 2025 8:51:49 PM oracle.security.opss.internal.runtime.ServiceContextManagerImpl getContext
WARNING: Bootstrap services are used by OPSS internally and clients should never need to directly read/write bootstrap credentials. If required, use Wlst o
r configuration management interfaces.
<Sep 4, 2025 8:51:49 PM China Standard Time> <INFO> <Loaded NodeManager configuration properties from '/home/FMW_home/Oracle/Middleware/Oracle_Home/user_pr
jects/domains/base_domain/nodemanager/nodemanager.properties'>
Node manager v14.1.2.0.0

Configuration settings:
LogAppend=true
AuthenticationEnabled=true
CrashRecoveryEnabled=false
LogLimit=0
weblogic.StopScriptEnabled=false
DomainsDirRemoteSharingEnabled=false
DomainsFileEnabled=true

```

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

```

member-n/a): Created cache factory com.tangosol.net.ExtensibleConfigurableCacheFactory
2025-09-04 20:54:59.251/88.105 Oracle Coherence GE 14.1.2.0.0 <D5> (thread=[ACTIVE] ExecuteThread: '88' for queue: 'weblogic.kernel.Default (self-tuning)'),
member-n/a): Created cache factory com.tangosol.net.ExtensibleConfigurableCacheFactory
Application: em started in phase0 (adf-config value is 0, profile value is -1)
<Sep 4, 2025, 8:55:01,466 PM China Standard Time> <Warning> <oracle.adfinternal.view.faces.partition.FeatureUtils> <ADF_FACES-30130> <Ignoring feature-depe
ndency on feature "AdfUIChoose". No such feature exists.>
2025-09-04 20:55:01.933/90.787 Oracle Coherence GE 14.1.2.0.0 <Info> (thread=[ACTIVE] ExecuteThread: '0' for queue: 'weblogic.kernel.Default (self-tuning)',
member-n/a): Loaded cache configuration from "jar:file:/home/FMW_home/Oracle/Middleware/Oracle_Home/oracle_common/modules/oracle.wsm.common/wsm-agent-cor
e.jar!/oracle-wsm-coherence-cache-config.xml"
2025-09-04 20:55:01.951/90.805 Oracle Coherence GE 14.1.2.0.0 <D5> (thread=[ACTIVE] ExecuteThread: '0' for queue: 'weblogic.kernel.Default (self-tuning)',
member-n/a): Created cache factory com.tangosol.net.ExtensibleConfigurableCacheFactory
<Sep 4, 2025, 8:55:02,169 PM China Standard Time> <Notice> <Log Management> <BEA-170027> <The server has successfully established a connection with the Dom
ain level Diagnostic Service.>
<Sep 4, 2025, 8:55:02,340 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to ADMIN.>
<Sep 4, 2025, 8:55:02,365 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to RESUMING.>
<Sep 4, 2025, 8:55:02,365 PM China Standard Time> <Notice> <JMX> <BEA-149535> <JMX Resiliency Activity Server=All Servers : Resolving connection list Domai
nRuntimeServiceMBean>
<Sep 4, 2025, 8:55:02,482 PM China Standard Time> <Warning> <Server> <BEA-002611> <The hostname "localhost", maps to multiple IP addresses: 127.0.0.1, 0:0:
0:0:0:0:0:1.>
<Sep 4, 2025, 8:55:02,485 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default[4]" is now listening on 127.0.0.1:7001 for protocols iio
p, t3, ldap, snmp, http.>
<Sep 4, 2025, 8:55:02,486 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default[1]" is now listening on 192.168.3.1:7001 for protocols iio
p, t3, ldap, snmp, http.>
<Sep 4, 2025, 8:55:02,486 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default[2]" is now listening on 10.200.176.15:7001 for protocols iio
p, t3, ldap, snmp, http.>
<Sep 4, 2025, 8:55:02,486 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default" is now listening on 10.200.176.11:7001 for protocols iio
p, t3, ldap, snmp, http.>
<Sep 4, 2025, 8:55:02,487 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default[3]" is now listening on 0:0:0:0:0:0:1%lo:7001 for prot
ocols iio, t3, ldap, snmp, http.>
<Sep 4, 2025, 8:55:02,487 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000398> <Secure mode enabled for WebLogic Server "AdminServer".>
<Sep 4, 2025, 8:55:02,487 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000329> <Started the WebLogic Server Administration Server "AdminServer" f
or domain "base_domain" running in production mode.>
<Sep 4, 2025, 8:55:02,494 PM China Standard Time> <Warning> <Security> <BEA-090985> <Production Mode is enabled but the the file or directory /home/FMW_ho
me/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/bin/nm.out is insecure since its permission is not a minimum of umask 027. SOLUTION: Chan
ge the file or directory permission to at most allow only write by owner, read by group.>
<Sep 4, 2025, 8:55:02,497 PM China Standard Time> <Warning> <Security> <BEA-090983> <Secure Mode is enabled but the administration port is not enabled. SOL
UTION: Enable the administration port.>
<Sep 4, 2025, 8:55:02,498 PM China Standard Time> <Warning> <Security> <BEA-091033> <No dedicated network channel configured for HTTPS traffic. SOLUTION: O
racle recommends creating a network channel for only HTTPS traffic for externally available applications. Configure your firewall so that the network chann
el is available externally, and that the default network channel and other customer internal channels are only accessible internally.>
<Sep 4, 2025, 8:55:02,509 PM China Standard Time> <Warning> <Security> <BEA-091003> <Secure Mode requires that users in the Administrators group do not hav
e obvious user names. SOLUTION: Change the user name "weblogic" so it is not a commonly used administrator name.>
<Sep 4, 2025, 8:55:02,636 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000360> <The server started in RUNNING mode.>
<Sep 4, 2025, 8:55:02,641 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to RUNNING.>

```

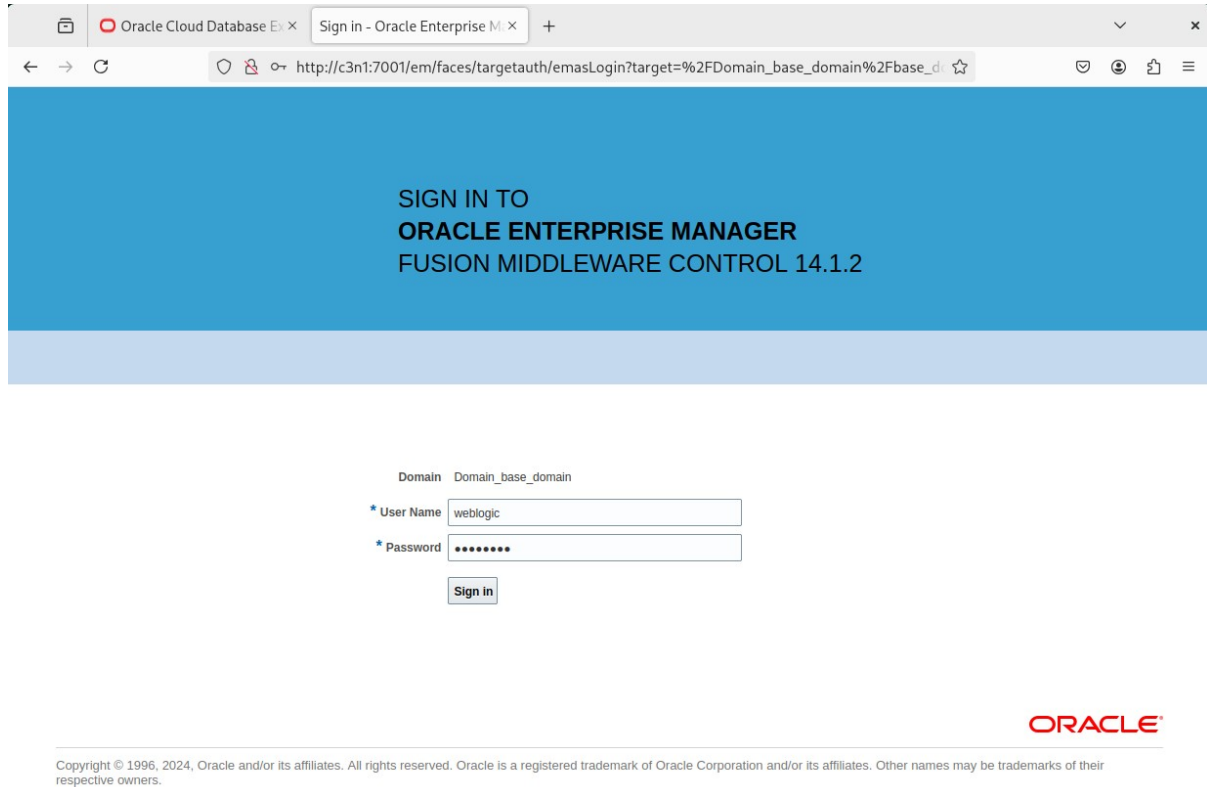
You know that the administrator server is running when you see the following output:

Server state changed to RUNNING.

4-3. Checking Oracle Forms and Reports Product URLs.

1). Access to Enterprise Manager Console.

Login Page:



Domain Domain_base_domain

* User Name weblogic

* Password *****

Sign in

ORACLE

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Home Page:

The screenshot shows the Oracle Enterprise Manager (Fusion Middleware Control 14.1.2) interface for a WebLogic Domain named 'base_domain'. The page displays a summary of the domain's status, including a 'Servers' section with a pie chart showing 2 Down and 1 Up, and a 'Clusters' section with a pie chart showing 2 Unknown. The 'Deployments' section shows 2 Down and 3 Up. The 'Administration Server' section provides details for the 'AdminServer', including its name, host, and listen port. A table lists the servers and their status, cluster, machine, state, health, and listen port.

Name	Status	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)	Up		AdminServerMachine	Running	OK	7001
WLS_FORMS	Down	cluster_forms	AdminServerMachine	Shutdown	Unknown	9001
WLS_REPORTS	Down	cluster_reports	AdminServerMachine	Shutdown	Unknown	9012

Starting WLS_FORMS

The screenshot shows the Oracle Enterprise Manager (Fusion Middleware Control 14.1.2) interface for the 'WLS_FORMS' WebLogic Server. The page displays a summary of the server's status, including a 'Monitoring' section with a pie chart showing 0 Request Processing Time (ms) and 0.00 Requests (per minute), and a 'Deployments' section with a pie chart showing 1 Up. The 'General' section provides details about the server, including its version, state, health, server type, cluster, CPU usage, heap usage, Java vendor, and Java version. The 'Response and Load' section shows a graph of request processing time and requests per minute over time. The 'Servlets and JSPs' section shows the number of active sessions, request processing time, and requests per minute. The 'Work Manager' section shows the number of requests per minute. The 'EJBs' section shows the number of beans in use, bean accesses per minute, bean access successes, and bean transaction commits per minute.

General	Response and Load
Version: 14.1.2.0.0	Request Processing Time (ms): 0.00
State: Running	Requests (per minute): 0.00
Health: OK	
Server Type: Configured	
Cluster: cluster_forms	
CPU Usage (%): Unavailable	
Heap Usage (MB): Unavailable	
Java Vendor: Unavailable	
Java Version: Unavailable	

Starting WLS_REPORTS

The screenshot shows the Oracle Enterprise Manager interface for the WLS_REPORTS server. The top navigation bar includes the Oracle logo and the text "Enterprise Manager Fusion Middleware Control 14.1.2". The breadcrumb trail shows "WebLogic Domain" > "weblogic". The main content area is titled "WLS_REPORTS" and includes a "Start Up" button. The "General" tab is selected, displaying the following information:

- Up Since: Sep 4, 2025, 9:01:28 PM
- Version: 14.1.2.0.0
- State: Running
- Health: OK (green checkmark)
- Server Type: Configured
- Cluster: cluster_reports
- CPU Usage (%): 0.02
- Heap Usage (MB): 445.05
- Java Vendor: Oracle Corporation
- Java Version: 17.0.13

The "Response and Load" section features a line graph showing "Request Processing Time (ms)" and "Requests (per minute)" over time. The "Servlets and JSPs" section shows "Active Sessions: 0", "Request Processing Time (ms): 0", and "Requests (per minute): 0.00". The "EJBs" section shows "Beans in Use: 0", "Bean Accesses (per minute): 0.00", "Bean Access Successes (%): 0.00", and "Bean Transaction Commits (per minute): 0.00".

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

The screenshot shows the Oracle Enterprise Manager interface for the base_domain. The top navigation bar includes the Oracle logo and the text "Enterprise Manager Fusion Middleware Control 14.1.2". The breadcrumb trail shows "WebLogic Domain" > "weblogic". The main content area is titled "base_domain" and includes a "WebLogic Domain" dropdown. The "Servers" section shows "3 Up" (green circle). The "Clusters" section shows "2 Up" (green circle). The "Deployments" section shows "5 Up" (green circle). The "Administration Server" section displays the following information:

- Name: AdminServer
- Host: c3n1.oraclelab.bej.suse.com
- Listen Port: 7001

The "Servers" table lists the following servers:

Name	Status	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)	↑		AdminServerMachine	Running	OK	7001
WLS_FORMS	↑	cluster_forms	AdminServerMachine	Running	OK	9001
WLS_REPORTS	↑	cluster_reports	AdminServerMachine	Running	OK	9012

The bottom of the page shows "Columns Hidden: 34" and "Servers: 3 of 3".

Starting ohs1

The screenshot displays the Oracle Enterprise Manager Fusion Middleware Control interface for the ohs1 (Oracle HTTP Server). The page is divided into several sections:

- Monitoring:** Shows CPU Usage (%) at 0.00 and Memory Usage (%) at 0.00.
- Virtual Hosts:** Shows 0 Virtual Hosts.
- Modules:** Shows 0 Modules.
- General:** Displays component details for ohs1, including Version (14.1.2.0.0), State (Running), Host (c3n1.oraclelab.bej.suse.com), Ports (7777 4443 127.0.0.1:7779), Machine Name (AdminServerMachine), Auto Restart (checked), and Oracle Home (/home/FMW_home/Oracle/Middleware/Oracle_Home).
- Response and Load:** A graph showing Request Processing Time (milli seconds) and /Domain_base_domain/base_domain/ohs1: Request Throughput over time.
- Key Statistics:** A table showing various metrics: Idle Processes (Unavailable), Busy Processes (Unavailable), Error Rate (%) (-1.00), Connection Duration (seconds) (Unavailable), Request Processing Time (seconds) (Unavailable), Request Throughput (per second) (-1.00, and Response Data Throughput (KB/second) (-1.00).
- CPU and Memory Usage:** A graph showing CPU Usage (%) and Memory Usage (MB) over time.

The URL bar shows the path: `http://c3n1:7001/em/faces/as_ohs_ohsHome?type=oracle_apache&target=%2FDomain_base_domain/ohs1#`.

Verified ohs1 URLs can be accessed.

The screenshot displays the Oracle HTTP Server landing page, which includes a detailed diagram of its architecture and a list of features.

Architecture Diagram: The diagram illustrates the Oracle HTTP Server (OHS) architecture. It shows OHS acting as a front-end for Fusion Middleware Applications. Key components and processes include:

- Local Content:** Serving static content.
- JS, HTML, CSS:** Serving dynamic content.
- Audit Control:** Managing audit logs.
- Identity Management:** Managing user identities.
- Authentication Authorization:** Handling user authentication and authorization.
- Load Balancing:** Distributing traffic across multiple OHS instances.
- Process Management and HA:** Managing the OHS process and ensuring high availability.
- Certificate management:** Managing SSL certificates.
- Automation:** Automating OHS tasks.
- Test to Production:** Facilitating the deployment of new versions.
- FMW Lifecycle Tools:** Tools for managing the Fusion Middleware lifecycle.
- Enterprise Manager:** Used to manage, monitor, and diagnose the OHS.

Features: The page lists the following features:

- Oracle HTTP Server is based on the proven, open source Apache HTTP Server technology and provides the framework for hosting static, dynamic web pages and for front-ending Oracle Fusion Middleware Applications.

Oracle Cloud Database Ex x ohs1 (Oracle HTTP Server) - C x Oracle HTTP Server x +

https://c3n1:4443/

ORACLE® Oracle HTTP Server

Oracle HTTP Server is based on the proven, open source Apache HTTP Server technology and provides the framework for hosting static, dynamic web pages and for front-ending Oracle Fusion Middleware Applications.

The diagram illustrates the Oracle HTTP Server (OHS) architecture. At the center is a large blue oval representing the OHS environment. Inside this oval, there are several components: 'Local Content' (a folder icon), 'OHS' (a server icon), 'Load Balancing' (a double-headed arrow), 'Auditing' (a document icon), 'Authentication Authorization' (a padlock icon), 'Audit Control' (a document icon), 'Identity Management' (a document icon), and 'Fusion Middleware Applications' (a stack of server icons). To the left of the oval, there are four gear icons representing 'Process Management and HA', 'Certificate management', 'Automation', and 'Test to Production'. Below these gears is a red box labeled 'FMW Lifecycle Tools'. To the right of the oval, there is a red box labeled 'Enterprise Manager' with the text 'Manage, monitor, diagnose' above it. Arrows indicate the flow of data and management between these components and the central OHS environment.

Features

Oracle Cloud Database Ex x ohs1 (Oracle HTTP Server) - C x Oracle HTTP Server x +

https://127.0.0.1:7779/

ORACLE® Oracle HTTP Server

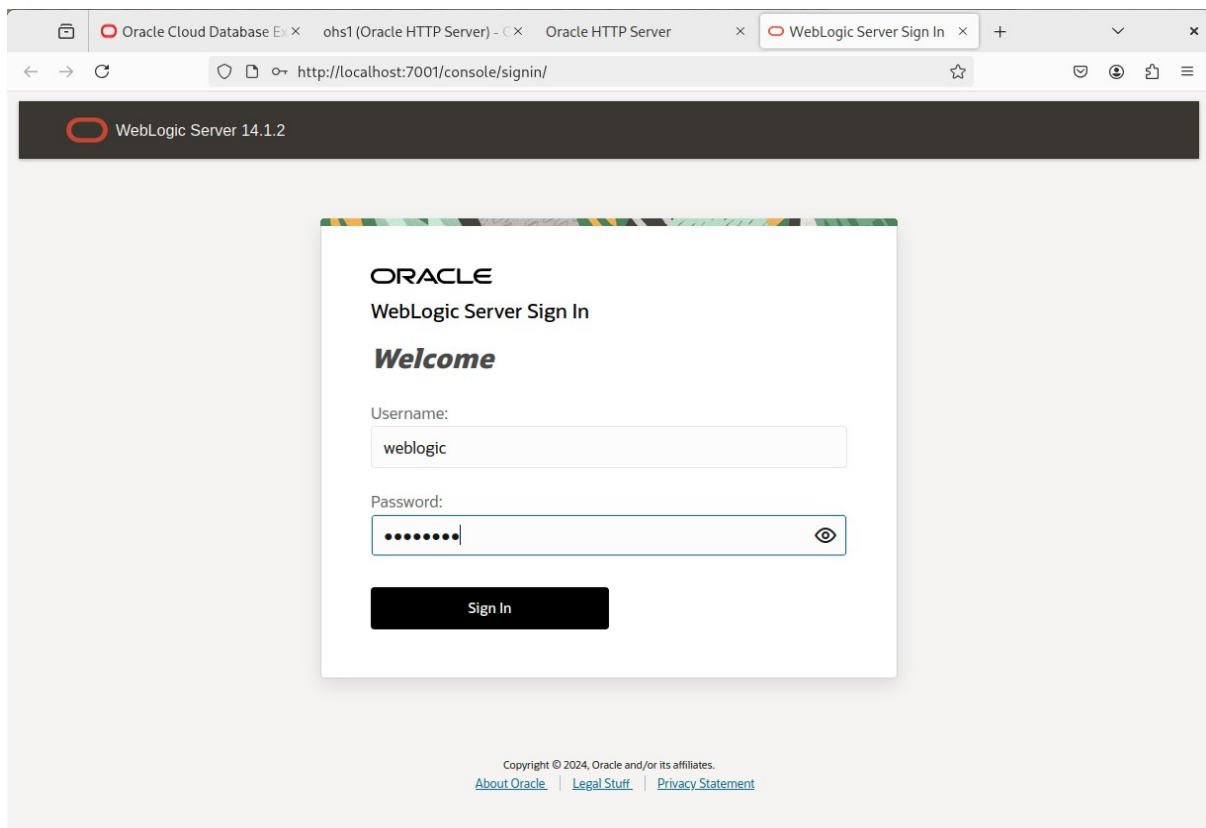
Oracle HTTP Server is based on the proven, open source Apache HTTP Server technology and provides the framework for hosting static, dynamic web pages and for front-ending Oracle Fusion Middleware Applications.

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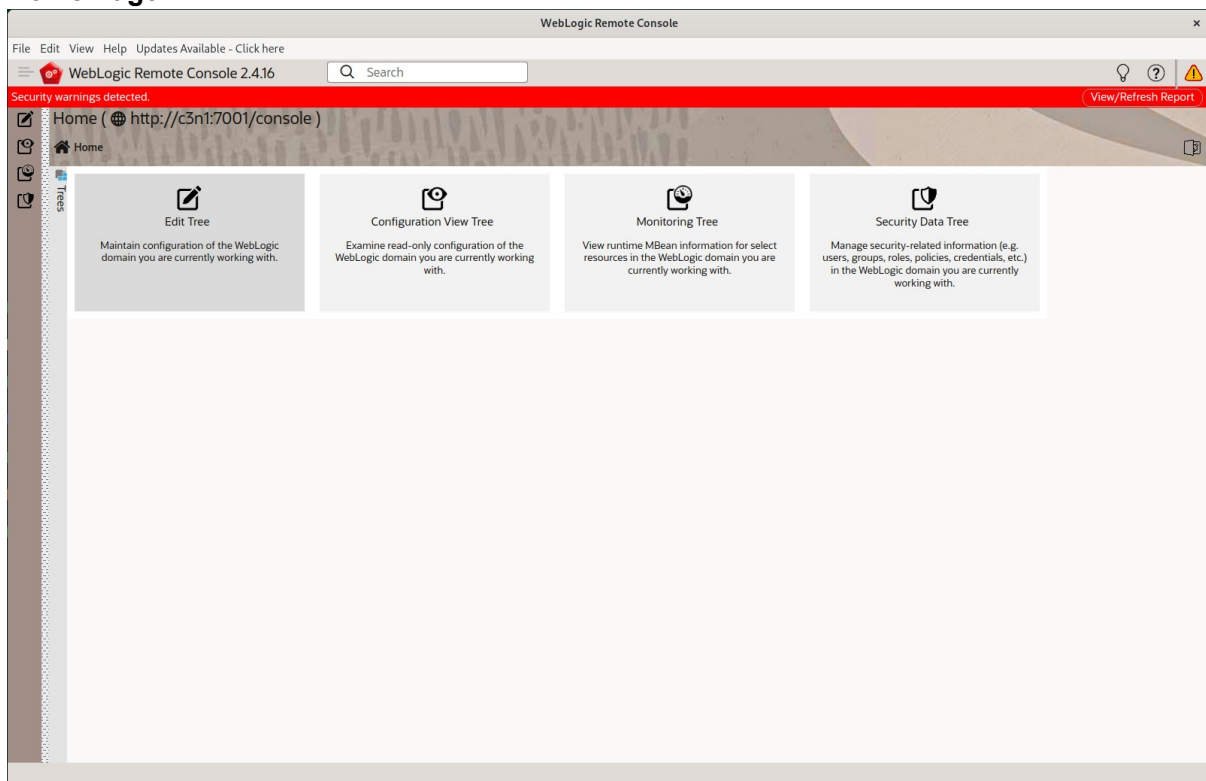
Features

2). Access to Administration Server Console

Login Page as shown below:



Home Page:



Viewing the summary of servers:

WebLogic Remote Console - ServerRuntimes

File Edit View Help Updates Available - Click here

WebLogic Remote Console 2.4.16 Search

Security warnings detected. (View/Refresh Report)

Monitoring Tree (http://c3n1:7001/console)

Home

Servers

Customize Table New Dashboard

A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration.

This page includes the monitoring data for each configured and/or running server in the current WebLogic Server domain.

Note: a managed server's State is 'Unreachable' when the administration server is unable to communicate with it. You can navigate to the managed server to get more information about its state. You can also customize this table to display the 'Server Life Cycle State' column, however doing so negatively impact the

Start Resume Suspend Shutdown Restart SSL

	Name	State	Current Machine	Complete Reqs	Open Sockets	Health	Stuck Threads
<input type="checkbox"/>	AdminServer	Running	AdminServerMachine	18867	14	Okay	0
<input type="checkbox"/>	WLS_FORMS	Running	AdminServerMachine	10309	5	Okay	0
<input type="checkbox"/>	WLS_REPORTS	Running	AdminServerMachine	8308	5	Okay	0

Total Rows: 3

3). Access to Oracle Forms Services.

Oracle Cloud Database Ex x Home: forms1 (Forms) - Ora x Oracle HTTP Server x +

http://c3n1:7001/em/faces/ai/forms/formshome?type=oracle_forms&target=%2FDomain_base_domain%2Fba

ORACLE Enterprise Manager Fusion Middleware Control 14.1.2

WebLogic Domain weblogic

forms1 Forms

Sep 4, 2025, 9:16:39 PM CST

Forms Deployments

View Detach

Forms Application	WLS Instance	Status	Number Of Forms Sessions	New Connections	Web Configuration	Environment Configuration	Font and Icon Mapping	Advanced Configuration	Servlet URL
formsapp	WLS_FOR...	Up	0	✓	Web Configuration	Environment Configura...	Font and Icon Mapping	Advanced Configuration	https://10.200.176.11:9501/forms/frmservlet

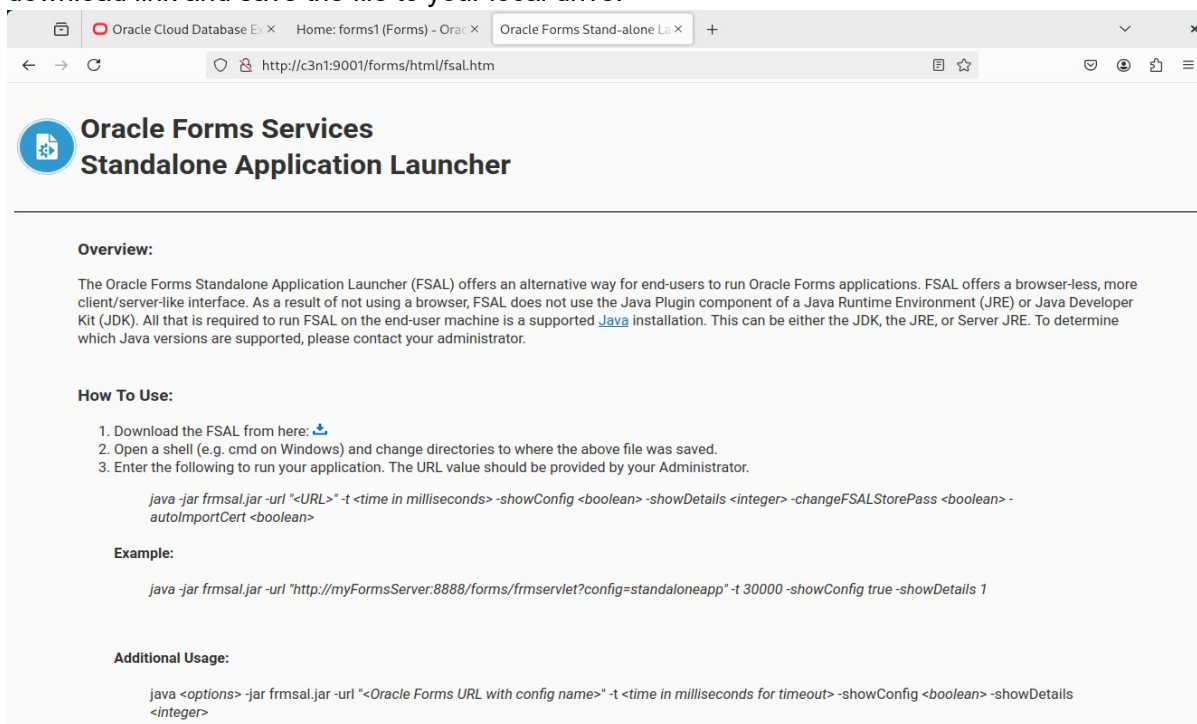
Response And Load

Graph showing Average Response Time (ms) and Number Of Sessions over time (09:02 PM to 09:16 PM).

Table View

To run forms application using FSAL (Forms Standalone Launcher).

Download the frmsal.jar file from the Usage/Syntax web page available with the installation. The URL like this: “***https://<your server>:<your port>/forms/html/fsal.htm***”. Click the available download link and save the file to your local drive.



The screenshot shows a web browser window displaying the "Oracle Forms Services Standalone Application Launcher" page. The page has a header with the Oracle logo and the title. Below the header, there is an "Overview" section and a "How To Use" section. The "How To Use" section contains a numbered list of steps and a code block with a command to run the application. The "Additional Usage" section also contains a code block with a command.

Overview:

The Oracle Forms Standalone Application Launcher (FSAL) offers an alternative way for end-users to run Oracle Forms applications. FSAL offers a browser-less, more client/server-like interface. As a result of not using a browser, FSAL does not use the Java Plugin component of a Java Runtime Environment (JRE) or Java Developer Kit (JDK). All that is required to run FSAL on the end-user machine is a supported [Java](#) installation. This can be either the JDK, the JRE, or Server JRE. To determine which Java versions are supported, please contact your administrator.

How To Use:

1. Download the FSAL from here: [📄](#)
2. Open a shell (e.g. cmd on Windows) and change directories to where the above file was saved.
3. Enter the following to run your application. The URL value should be provided by your Administrator.

```
java -jar frmsal.jar -url '<URL>' -t <time in milliseconds> -showConfig <boolean> -showDetails <integer> -changeFSALStorePass <boolean> -autoImportCert <boolean>
```

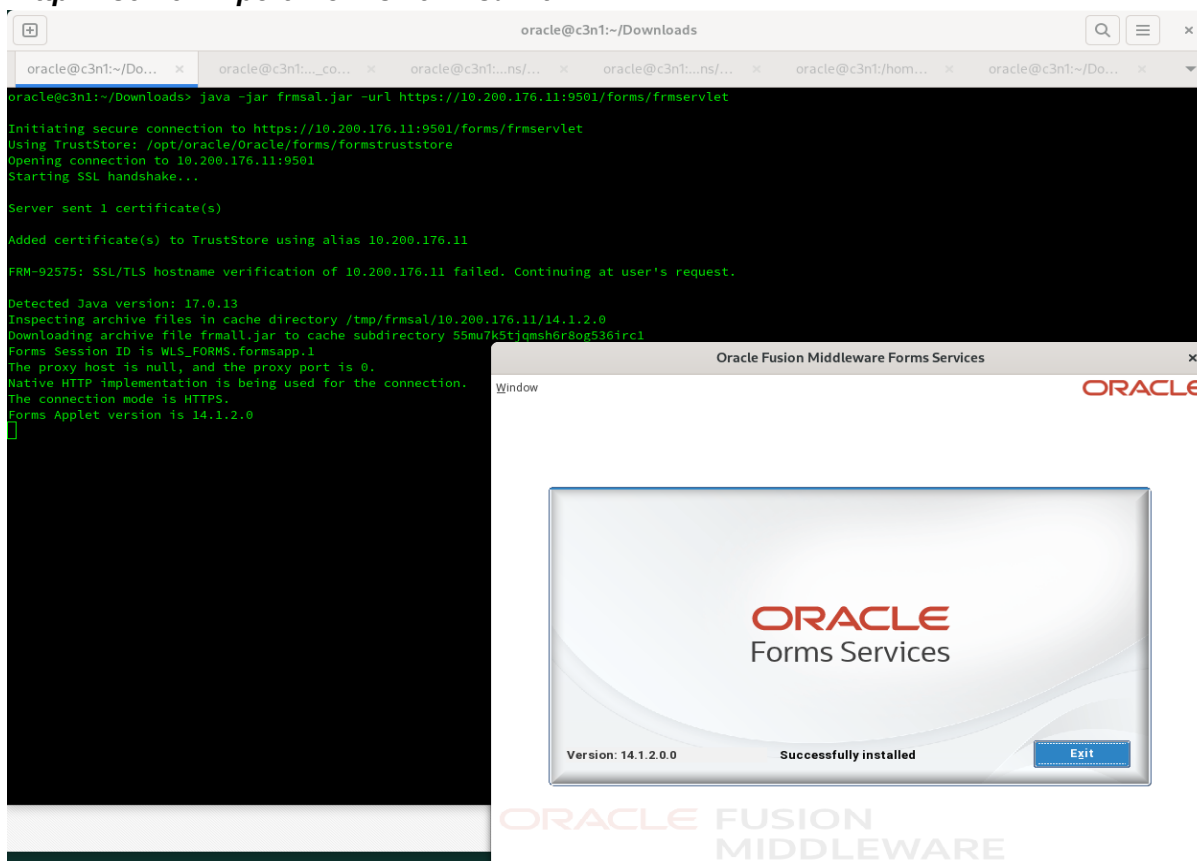
Example:

```
java -jar frmsal.jar -url 'http://myFormsServer:8888/forms/frmservlet?config=standaloneapp' -t 30000 -showConfig true -showDetails 1
```

Additional Usage:

```
java <options> -jar frmsal.jar -url '<Oracle Forms URL with config name>' -t <time in milliseconds for timeout> -showConfig <boolean> -showDetails <integer>
```

To start an application with FSAL. Refer to the FSAL Usage page provided in the installation for a complete list of command line arguments. To access this page, enter this URL in a browser: “***http://<server>:<port>/forms/html/fsal.htm***”



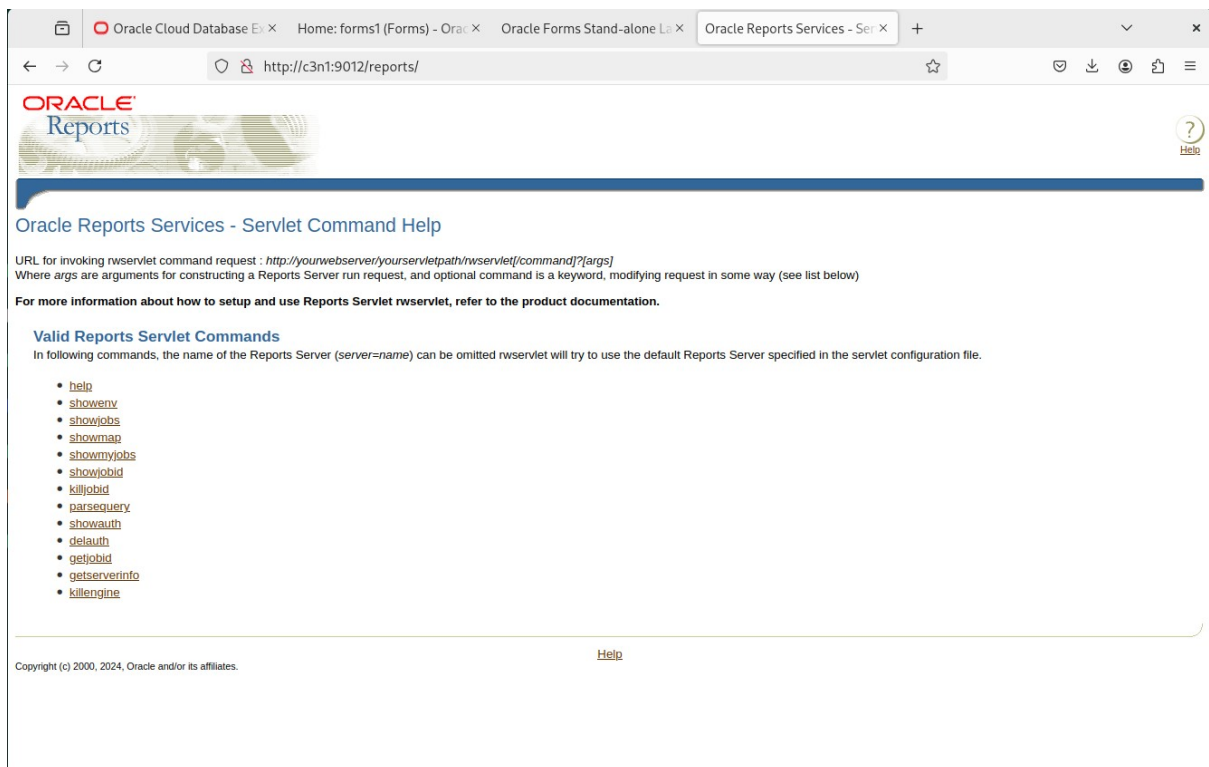
The screenshot shows a terminal window and an Oracle Forms Services window. The terminal window displays the output of the command `java -jar frmsal.jar -url https://10.200.176.11:9501/forms/frmservlet`. The output shows the initiation of a secure connection, the detection of Java version 17.0.13, and the successful installation of the Oracle Forms Services. The Oracle Forms Services window shows the Oracle logo and the text "Forms Services". The window also displays the version "14.1.2.0.0" and the status "Successfully installed".

```
oracle@c3n1:~/Downloads$ java -jar frmsal.jar -url https://10.200.176.11:9501/forms/frmservlet
Initiating secure connection to https://10.200.176.11:9501/forms/frmservlet
Using TrustStore: /opt/oracle/Oracle/forms/formstruststore
Opening connection to 10.200.176.11:9501
Starting SSL handshake...
Server sent 1 certificate(s)
Added certificate(s) to TrustStore using alias 10.200.176.11
FRM-92575: SSL/TLS hostname verification of 10.200.176.11 failed. Continuing at user's request.
Detected Java version: 17.0.13
Inspecting archive files in cache directory /tmp/frmsal/10.200.176.11/14.1.2.0
Downloading archive file frmall.jar to cache subdirectory 55mu7K5tjgmsb6r8og536irc1
Forms Session ID is WLS_FORMS.formsapp.1
The proxy host is null, and the proxy port is 0.
Native HTTP implementation is being used for the connection.
The connection mode is HTTPS.
Forms Applet version is 14.1.2.0
[
```

Oracle Fusion Middleware Forms Services

Version: 14.1.2.0.0 Successfully installed Exit

4). Access to Oracle Reports Services.



The screenshot shows a web browser window with the address bar displaying `http://c3n1:9012/reports/`. The page title is "Oracle Reports Services - Servlet Command Help". The page content includes the Oracle Reports logo, a help icon, and a section titled "Valid Reports Servlet Commands". Below this section, a list of commands is provided: `help`, `showenv`, `showjobs`, `showmap`, `showmyjobs`, `showjobid`, `killjobid`, `parsequery`, `showauth`, `delauth`, `getjobid`, `getserverinfo`, and `killengine`. The page footer contains the copyright notice "Copyright (c) 2000, 2024, Oracle and/or its affiliates." and a "Help" link.

Oracle Cloud Database E... Home: forms1 (Forms) - Ora... Oracle Forms Stand-alone L... Oracle Reports Services - Ser... +

← → ↻ http://c3n1:9012/reports/ ☆

ORACLE Reports

Oracle Reports Services - Servlet Command Help

URL for invoking rwservlet command request : `http://yourwebserver/yourervletpath/rwservlet[/command]?[args]`
Where `args` are arguments for constructing a Reports Server run request, and optional command is a keyword, modifying request in some way (see list below)

For more information about how to setup and use Reports Servlet rwservlet, refer to the product documentation.

Valid Reports Servlet Commands

In following commands, the name of the Reports Server (`server=name`) can be omitted rwservlet will try to use the default Reports Server specified in the servlet configuration file.

- [help](#)
- [showenv](#)
- [showjobs](#)
- [showmap](#)
- [showmyjobs](#)
- [showjobid](#)
- [killjobid](#)
- [parsequery](#)
- [showauth](#)
- [delauth](#)
- [getjobid](#)
- [getserverinfo](#)
- [killengine](#)

Copyright (c) 2000, 2024, Oracle and/or its affiliates. [Help](#)

End of Oracle Forms and Reports.

Oracle WebTier OHS

1. Installing Oracle WebTier 14c OHS

1-1. Prerequisites:

Installation of Oracle WebTier Http Server requires:

- 1). Oracle Database 19c installed.
- 2). Oracle JDK 17.0.12 or later installed.
- 3). Oracle WebLogic Server 14c (14.1.2.0.0) (Fusion Middleware Infrastructure Installer)

1-2. Login to the target system (SLES 15 SP7 64-bit OS) as a non-admin user. Download the Oracle WebTier 14c OHS (14.1.2.0.0) 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 (V1045136-01.zip) file and launch the installation program by running `./fmw_14.1.2.0.0_ohs_linux64.bin`

For the actual installation, follow the steps below:

1). Installation Inventory Setup.

Oracle Fusion Middleware 14c HTTP Server (OHS) Installation

Installation Inventory Setup

Central Inventory Directory
Enter the Central inventory directory for all your oracle installations. The installer will create a new central inventory directory if it does not exist.

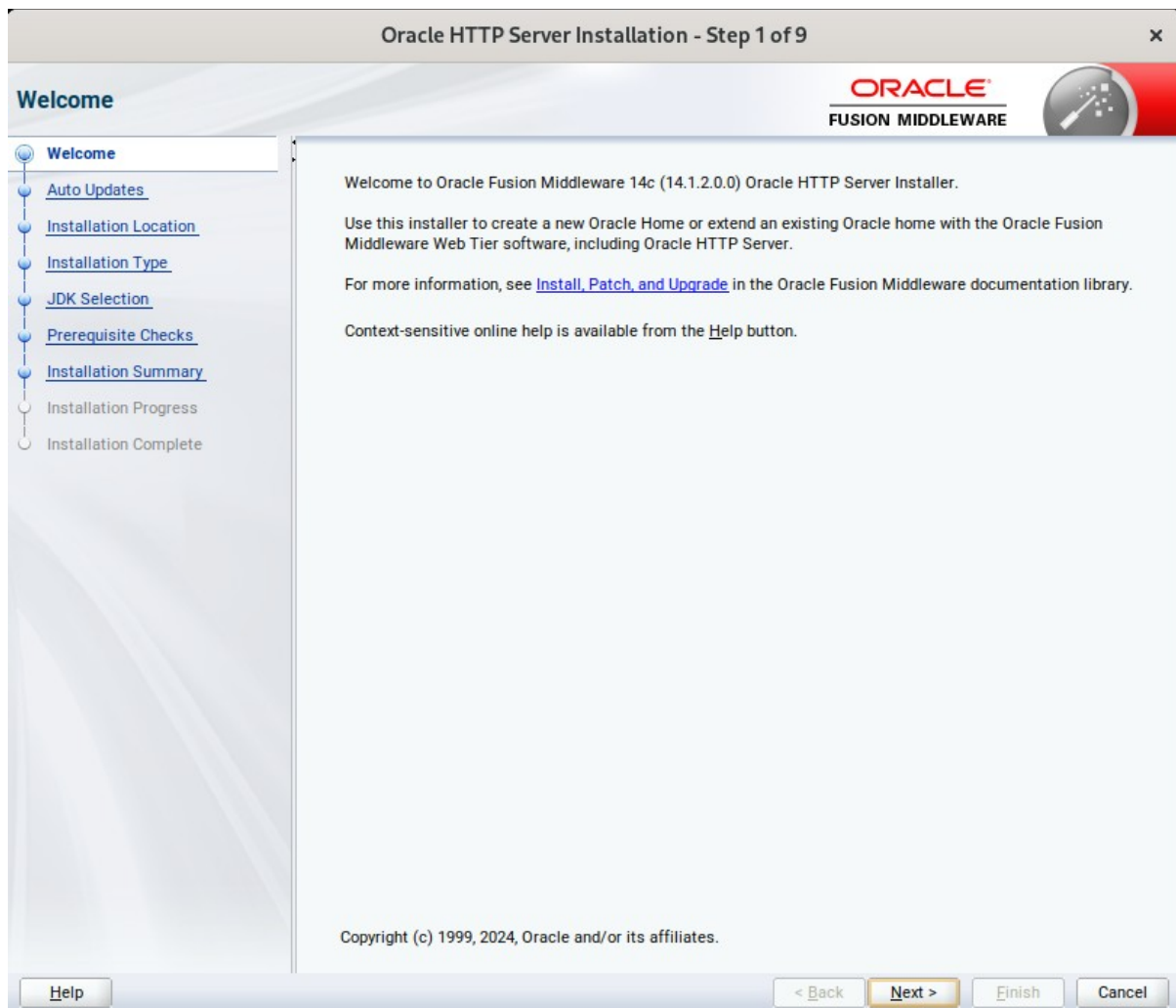
Inventory Directory:
Enter the full path for the directory.

Operating System Group :
Specify a group with write permission to the inventory directory

Central Inventory Pointer File
Click OK to create a script (createCentralInventory.sh) in the inventory directory. Run this script to create a pointer file, which is used to identify the location of the central inventory for future installations and administrative operations, such as patching and upgrade.

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.



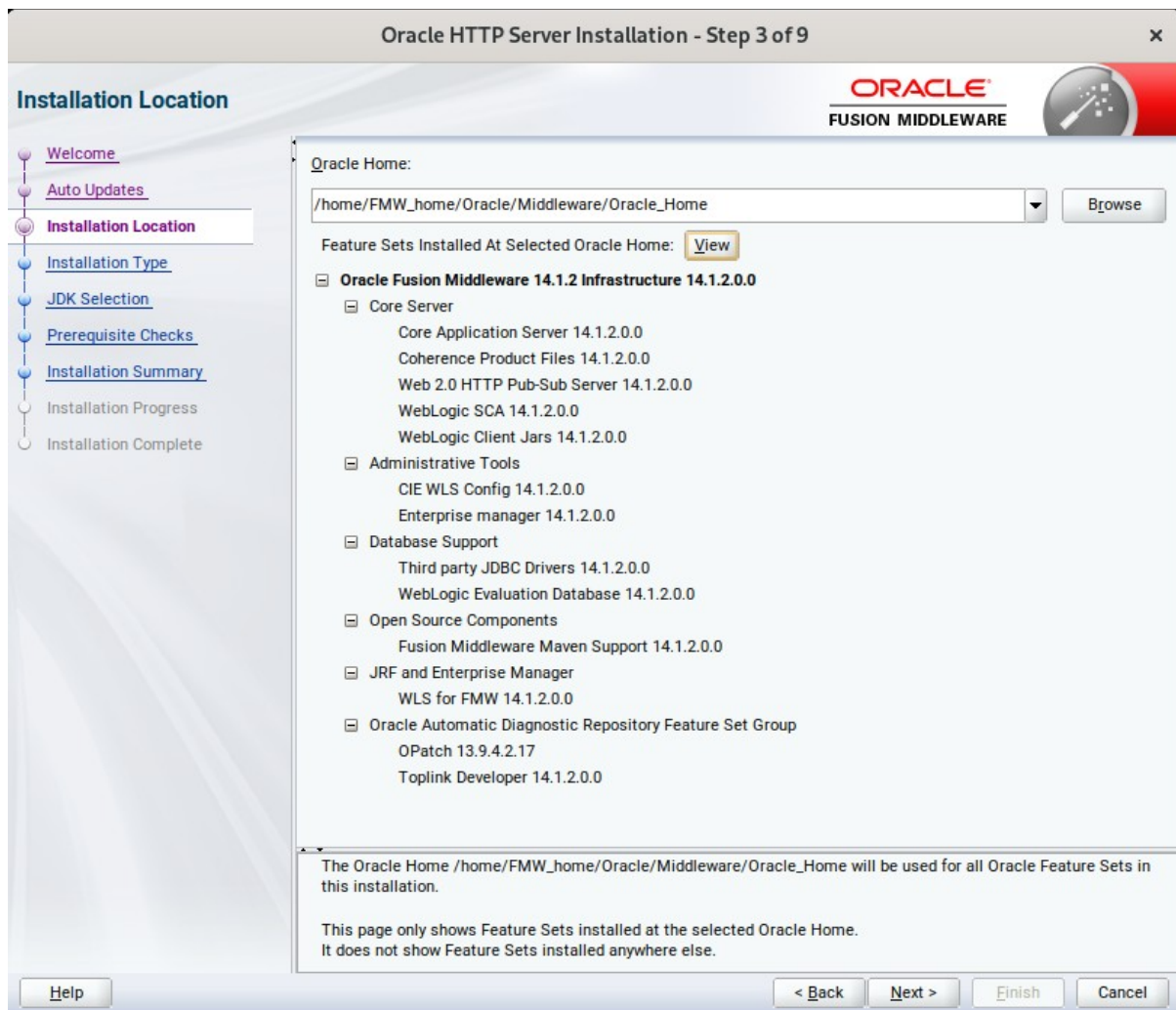
This page welcomes you to the installation. Click **Next** to continue.

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

The screenshot shows the 'Auto Updates' window for Oracle HTTP Server Installation, Step 2 of 9. The window has a title bar with the Oracle logo and 'FUSION MIDDLEWARE'. On the left is a navigation pane with links: Welcome, Auto Updates (selected), Installation Location, Installation Type, JDK Selection, Prerequisite Checks, Installation Summary, Installation Progress, and Installation Complete. The main area contains three radio buttons: 'Skip Auto Updates' (selected), 'Select patches from directory', and 'Search My Oracle Support for Updates'. Below 'Select patches from directory' is a 'Location:' text box and a 'Browse' button. Below 'Search My Oracle Support for Updates' are 'Username:' and 'Password:' text boxes, a 'Proxy Settings' button, and a 'Test Connection' button. There is also a 'Search' button and a large empty text area. At the bottom are 'Help', '< Back', 'Next >', 'Finish', and 'Cancel' buttons.

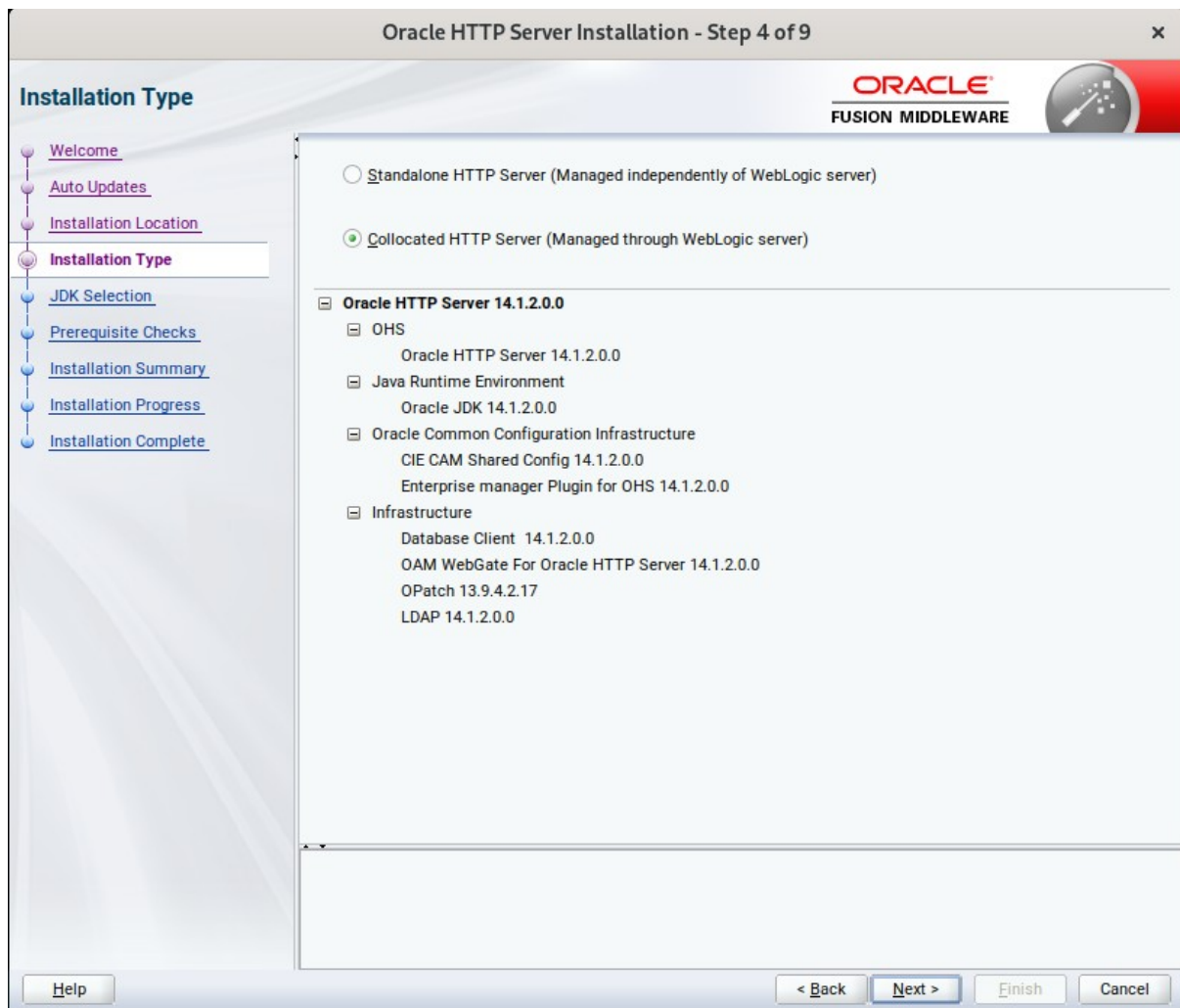
This page enables you to choose to automatically receive software updates for your components from Oracle Corporation. make your choices, then click **Next** to continue.

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



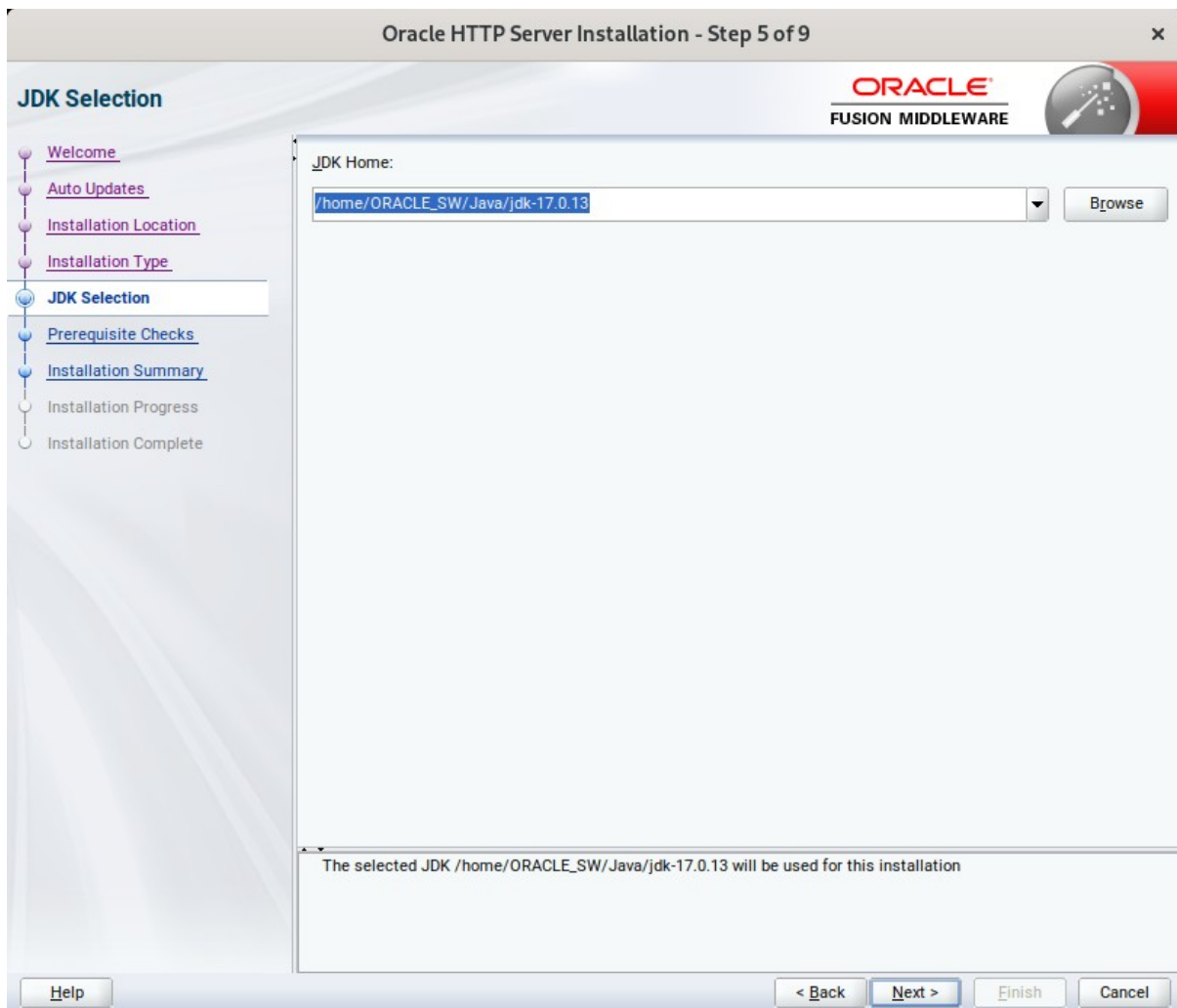
Specify the Oracle home location into which you want to install the product(s). Click **Next** to continue.

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



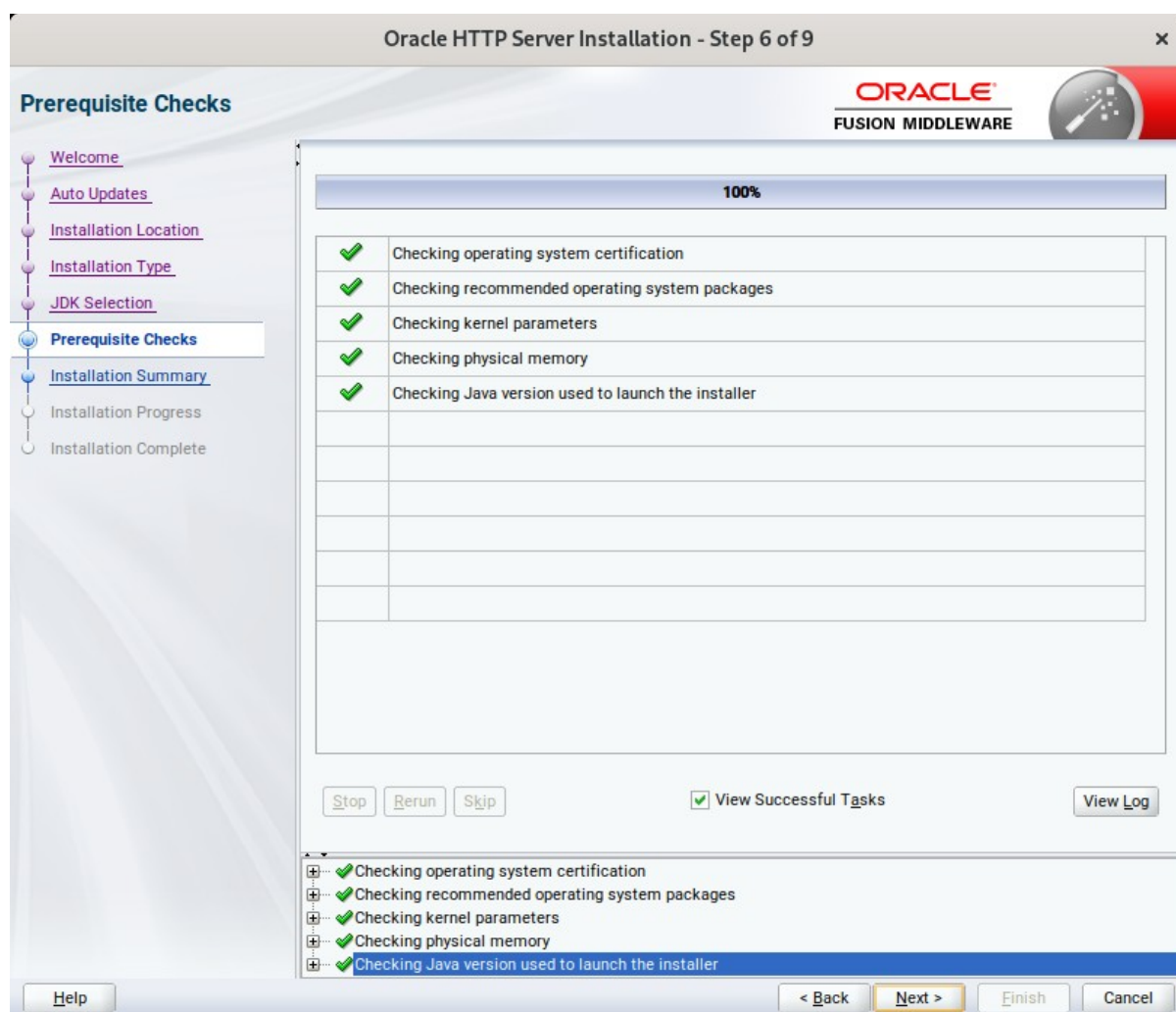
Selected **Collocated HTTP Server (Managed through WebLogic server)** to configure Oracle HTTP Server in a WebLogic Server Domain.(Alternative, select **Standalone HTTP Server (Managed independently of WebLogic server)** in the Installation Type screen to configure Oracle HTTP Server in a Standalone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



Prerequisite Checks results will be shown as above.

1). **Oracle Fusion Middleware 14c (14.1.2.0.0) - Minimum Requirements for the SLES OS.**

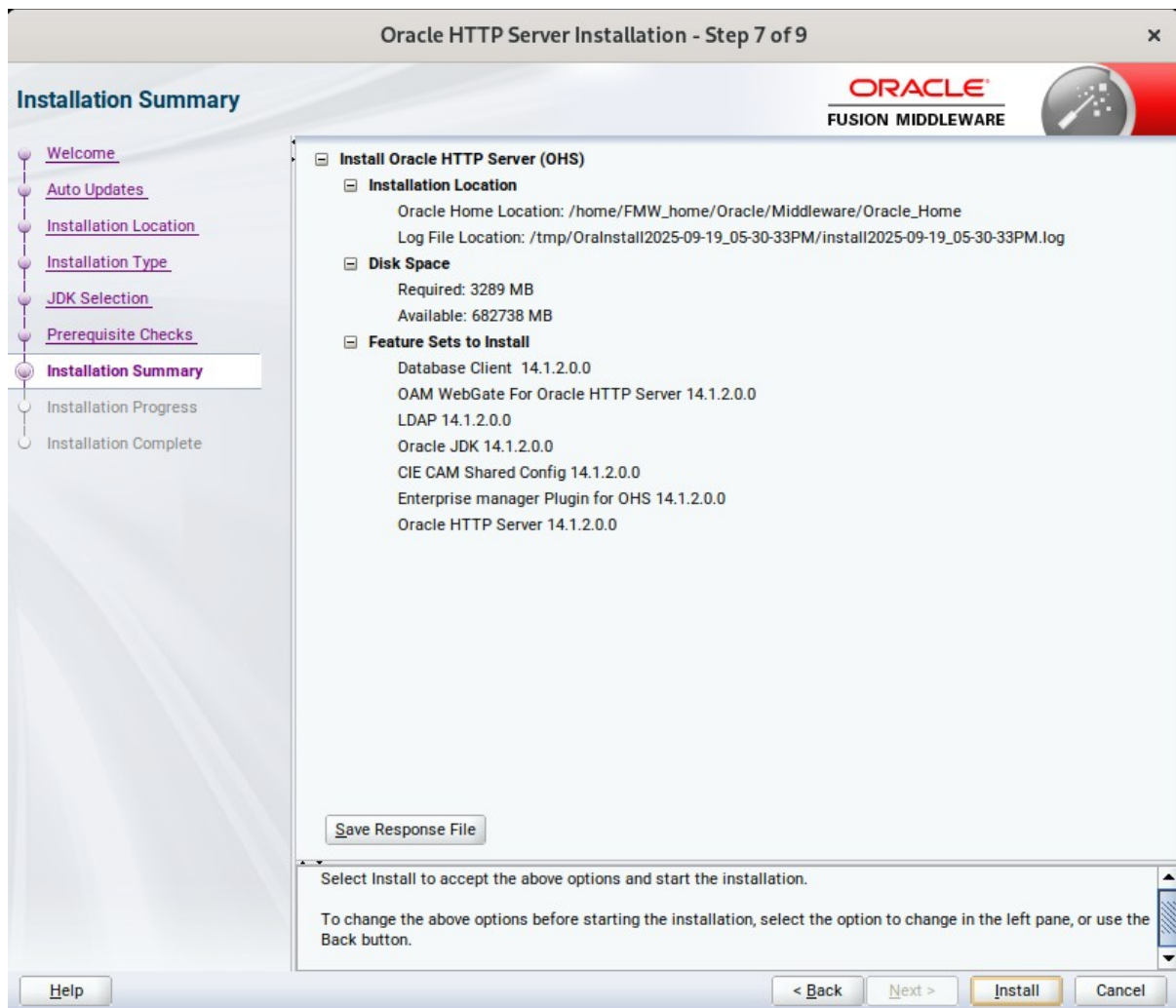
SUSE Linux Enterprise Server 15 (SP6+)

2). **Required Packages - Please ensure following packages(or later versions) are installed.**

```
binutils-2.41-150100.7.46.1-x86_64
glibc-2.38-150600.12.1-x86_64
linux-glibc-devel-6.4-150600.2.17-x86_64
glibc-devel-2.38-150600.12.1-x86_64
glibc-locale-2.38-150600.12.1-x86_64
glibc-extra-2.38-150600.12.1-x86_64
glibc-32bit-2.38-150600.12.1-x86_64
glibc-devel-32bit-2.38-150600.12.1-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
```

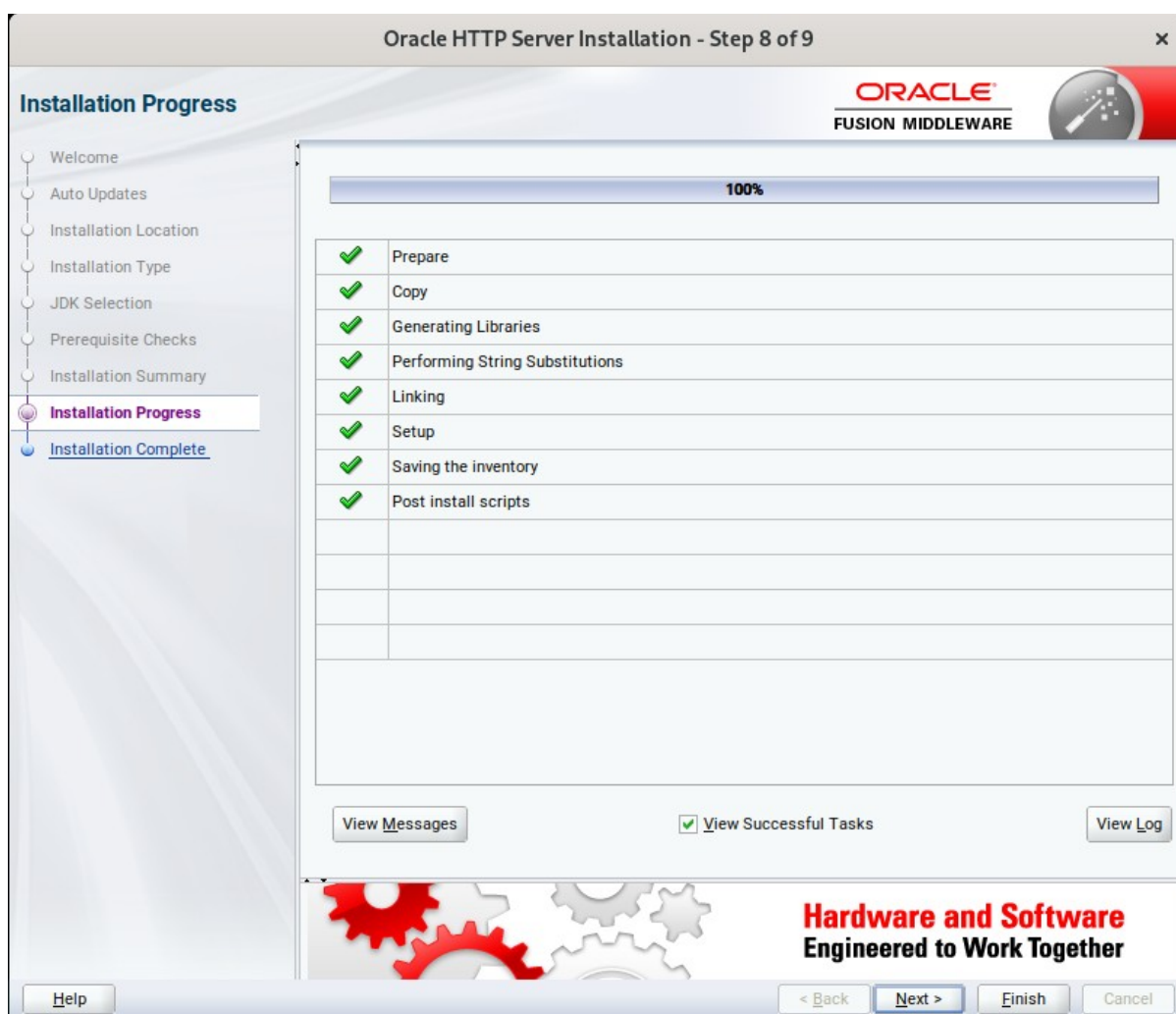
```
libcap2-2.63-150400.3.3.1-x86_64
libcap-ng0-0.7.9-4.37-x86_64
libcap2-32bit-2.63-150400.3.3.1-x86_64
libstdc++6-13.2.1+git8285-150000.1.9.1-x86_64
libstdc++6-devel-gcc7-7.5.0+r278197-150000.4.41.1-x86_64
libstdc++6-32bit-13.2.1+git8285-150000.1.9.1-x86_64
libstdc++6-devel-gcc7-32bit-7.5.0+r278197-150000.4.41.1-x86_64
libstdc++6-locale-13.2.1+git8285-150000.1.9.1-x86_64
libstdc++-devel-7-3.9.1-x86_64
libgcc_s1-13.2.1+git8285-150000.1.9.1-x86_64
libgcc_s1-32bit-13.2.1+git8285-150000.1.9.1-x86_64
make-4.2.1-7.3.2-x86_64
make-lang-4.2.1-7.3.2-noarch
makedumpfile-1.7.4-150600.1.3-x86_64
xorg-x11-7.6_1-1.22-noarch
xorg-x11-server-21.1.11-150600.3.2-x86_64
xorg-x11-fonts-7.6-13.6.1-noarch
xorg-x11-driver-video-7.6_1-9.10-x86_64
xorg-x11-Xvnc-1.13.1-150600.2.6-x86_64
xorg-x11-fonts-core-7.6-13.6.1-noarch
xorg-x11-server-extra-21.1.11-150600.3.2-x86_64
xorg-x11-essentials-7.6_1-1.22-noarch
)
```

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



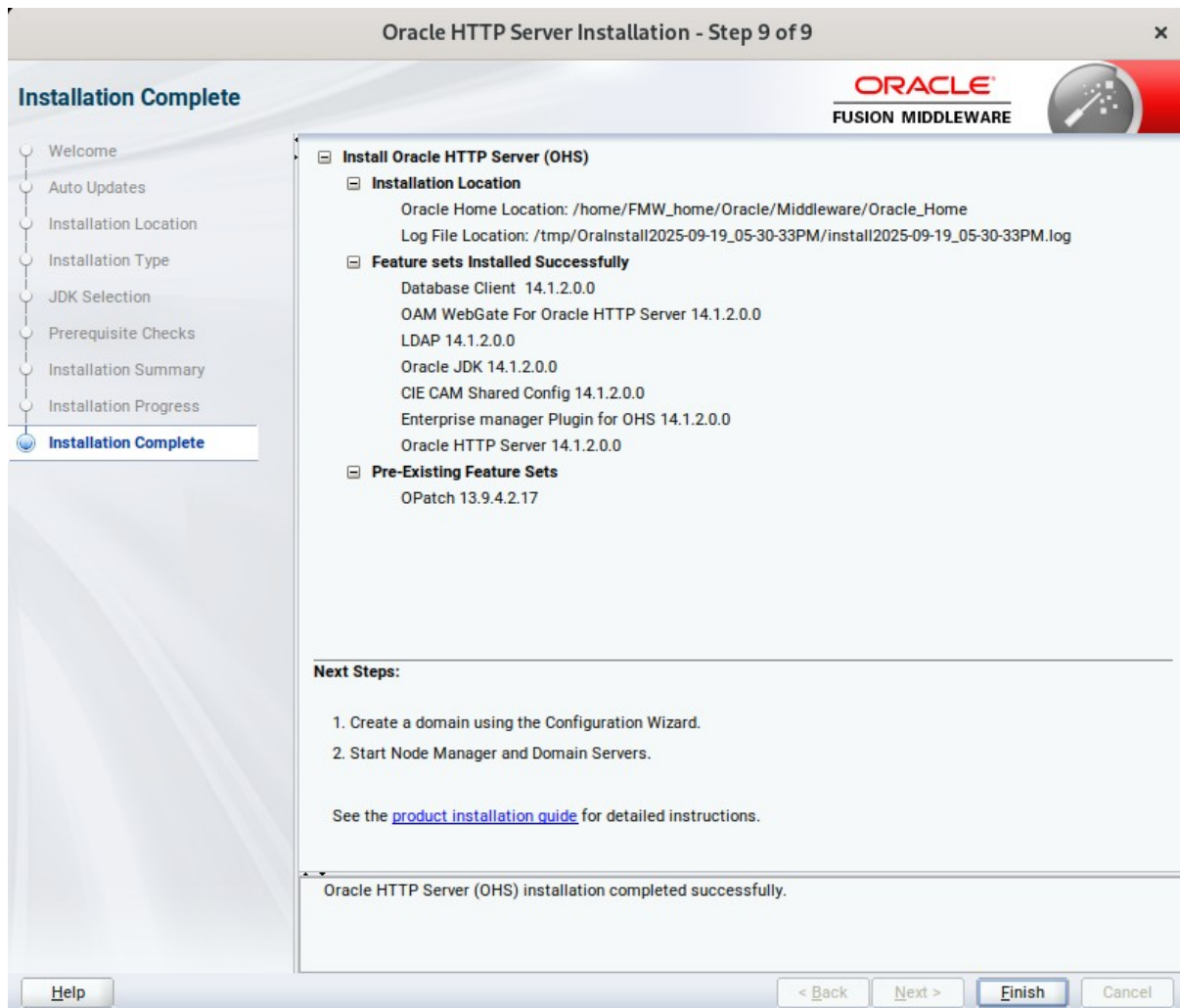
This page shows you what components and features are about to be installed. If you need to make changes, click **Back**, otherwise, click **Install** to start the installation.

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.



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 Fusion Middleware Infrastructure distribution. Run **\$FMW_HOME/oracle_common/bin/rcu** and create required database schemas for Oracle WebTier Http Server.

Screenshot: Database schemas creating for Oracle WebTier Http Server.

Repository Creation Utility - Step 4 of 8

Repository Creation Utility

Specify a unique prefix for all schemas created in this session, so you can easily locate, reference, and manage the schemas later.

Edition Name:

☐ Select existing prefix:

☒ Create new prefix:

Alpha numeric only. Cannot start with a number. No special characters.

Component	Schema Owner
<input checked="" type="checkbox"/> Oracle AS Repository Components	
<input checked="" type="checkbox"/> AS Common Schemas	
<input checked="" type="checkbox"/> Common Infrastructure Services *	DEV1_STB
<input checked="" type="checkbox"/> Oracle Platform Security Services	DEV1_OPSS
<input checked="" type="checkbox"/> User Messaging Service	DEV1_UMS
<input checked="" type="checkbox"/> Audit Services	DEV1_JAU
<input checked="" type="checkbox"/> Audit Services Append	DEV1_JAU_APPEND
<input checked="" type="checkbox"/> Audit Services Viewer	DEV1_JAU_VIEWER
<input checked="" type="checkbox"/> Metadata Services	DEV1_MDS
<input checked="" type="checkbox"/> Weblogic Services *	DEV1_WLS


* Mandatory component. Mandatory components cannot be deselected.

Help < Back Next > Finish Cancel

Select the **Create new prefix** radio button and provide a schema prefix (such as DEV1). Select the components as shown above.

Ensure the schema creation is successful.

Repository Creation Utility - Step 8 of 8

Repository Creation Utility 

Navigation: Welcome, Create Repository, Database Connection Details, Select Components, Schema Passwords, Map Tablespaces, Summary, **Completion Summary**

Database details:

Host Name: c3n1
Port: 1521
Service Name: SLES_PDB
Connected As: sys
Operation: System and Data Load concurrently
Execution Time: 4 minutes 44 seconds

RCU Logfile: /tmp/RCU2025-09-19_17-40_1719945507/logs/rcu.log
Component Log: /tmp/RCU2025-09-19_17-40_1719945507/logs
Directory:
View Log: [rcu.log](#)

Prefix for (prefixable): DEV1
Schema Owners:

Component	Status	Time	Logfile(Click to view)
Common Infrastructure Services	Success	00:14.174(sec)	stb.log
Oracle Platform Security Services	Success	01:26.123(min)	opss.log
User Messaging Service	Success	00:24.655(sec)	ucsums.log
Audit Services	Success	00:41.410(sec)	iau.log
Audit Services Append	Success	00:13.191(sec)	iau_append.log
Audit Services Viewer	Success	00:13.115(sec)	iau_viewer.log
Metadata Services	Success	00:30.919(sec)	mds.log
Weblogic Services	Success	00:32.504(sec)	wls.log

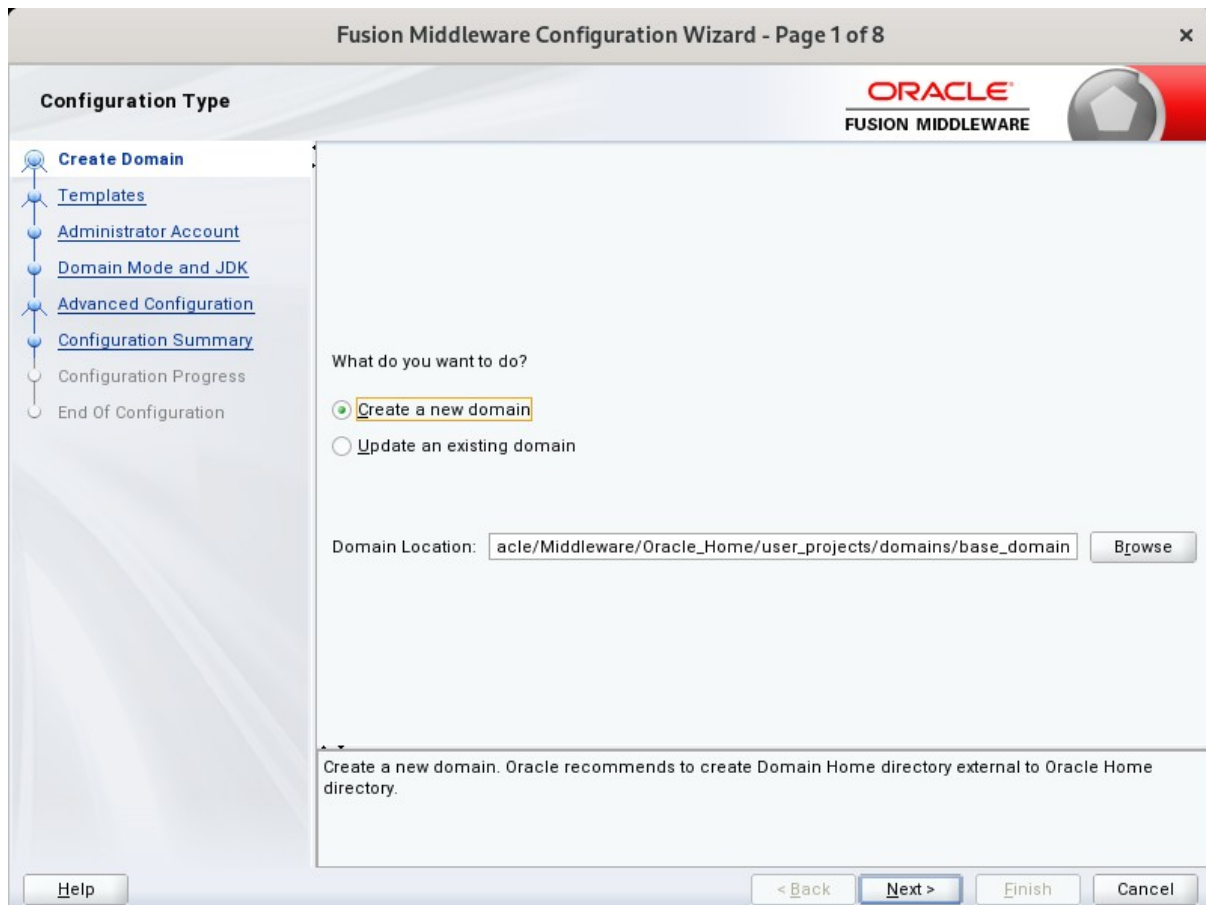
Help < Back Next > Create Close

3. Configuring Oracle WebTier 14c 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.

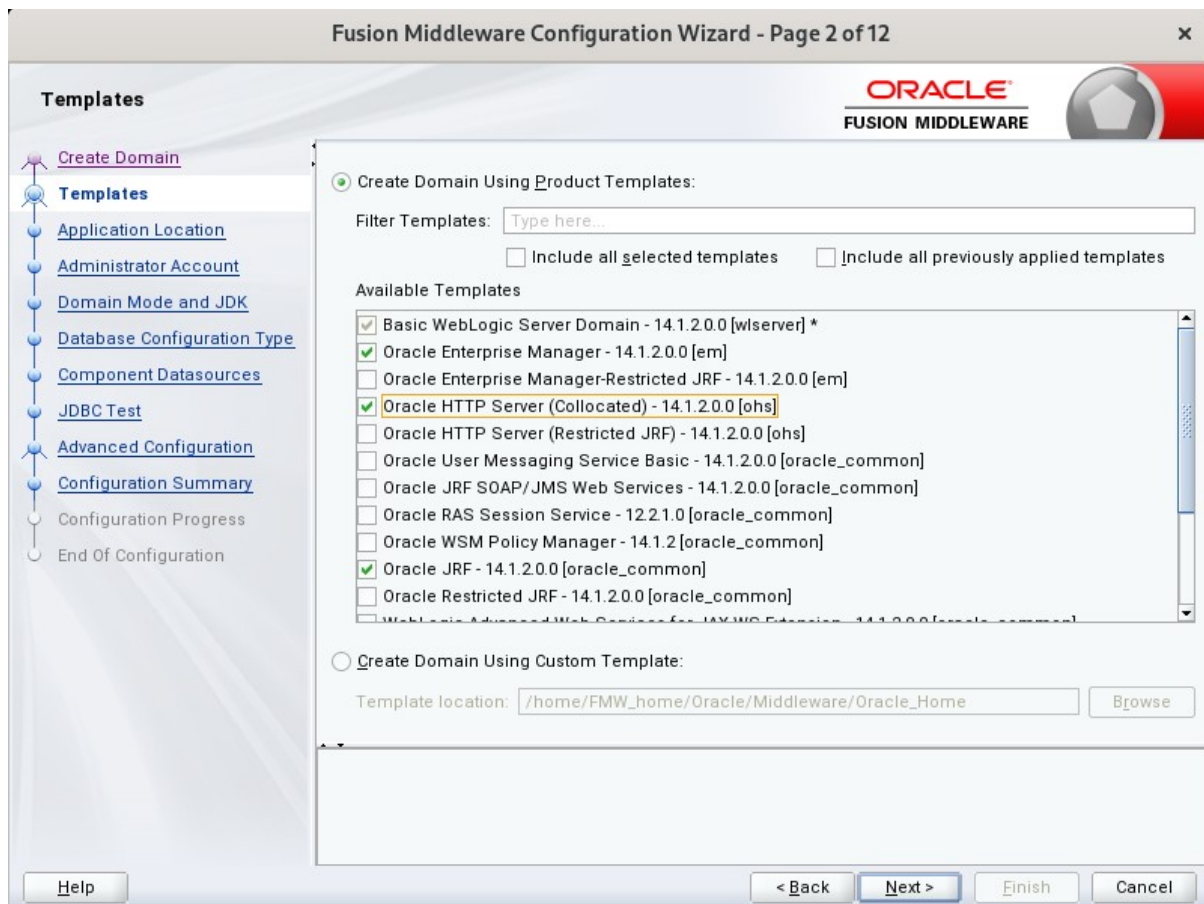
Follow these steps:

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



Click **Next** to continue.

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



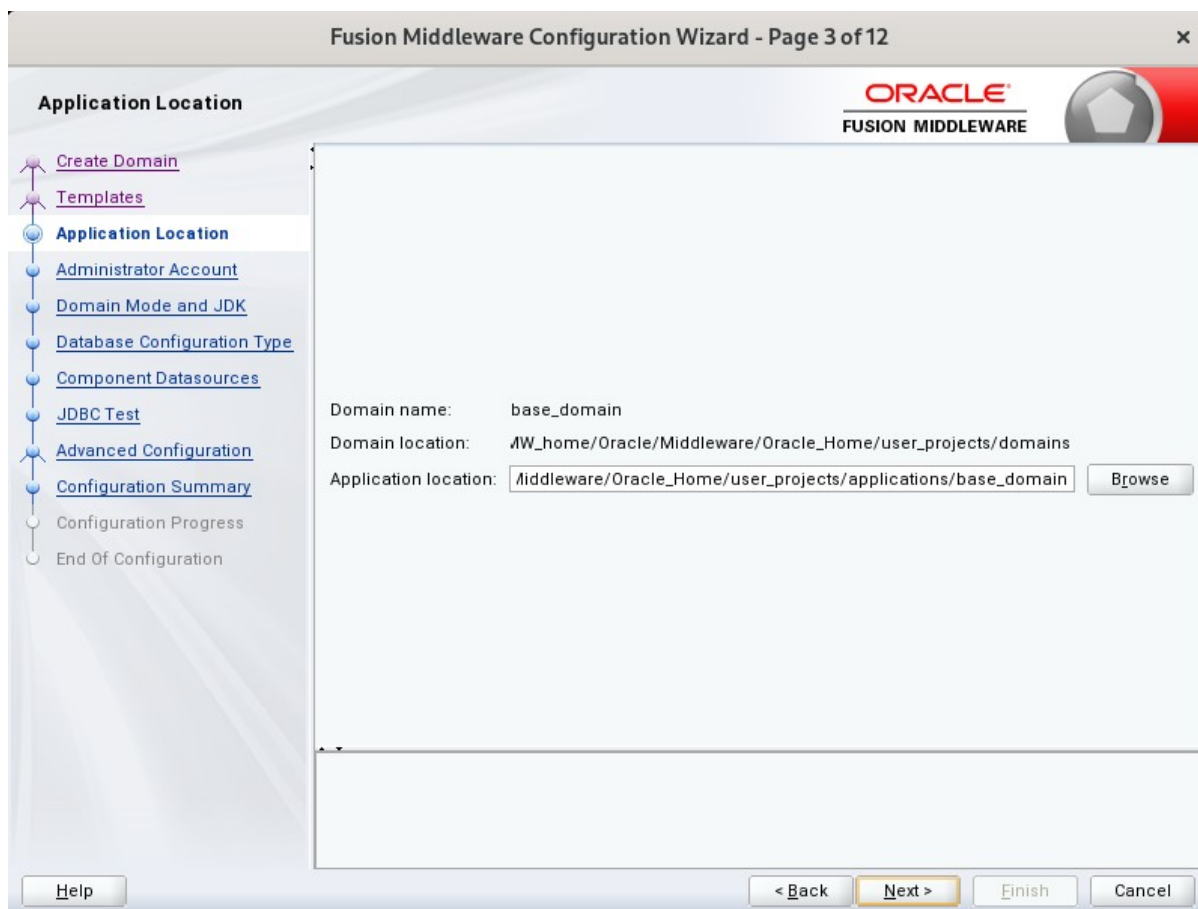
Keep the default selection (**Create Domain using Product Templates**), and select **Oracle HTTP Server (Collocated) – [ohs]** component.

Selecting this template automatically selects the following as dependencies:

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

Click **Next** to continue.

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



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

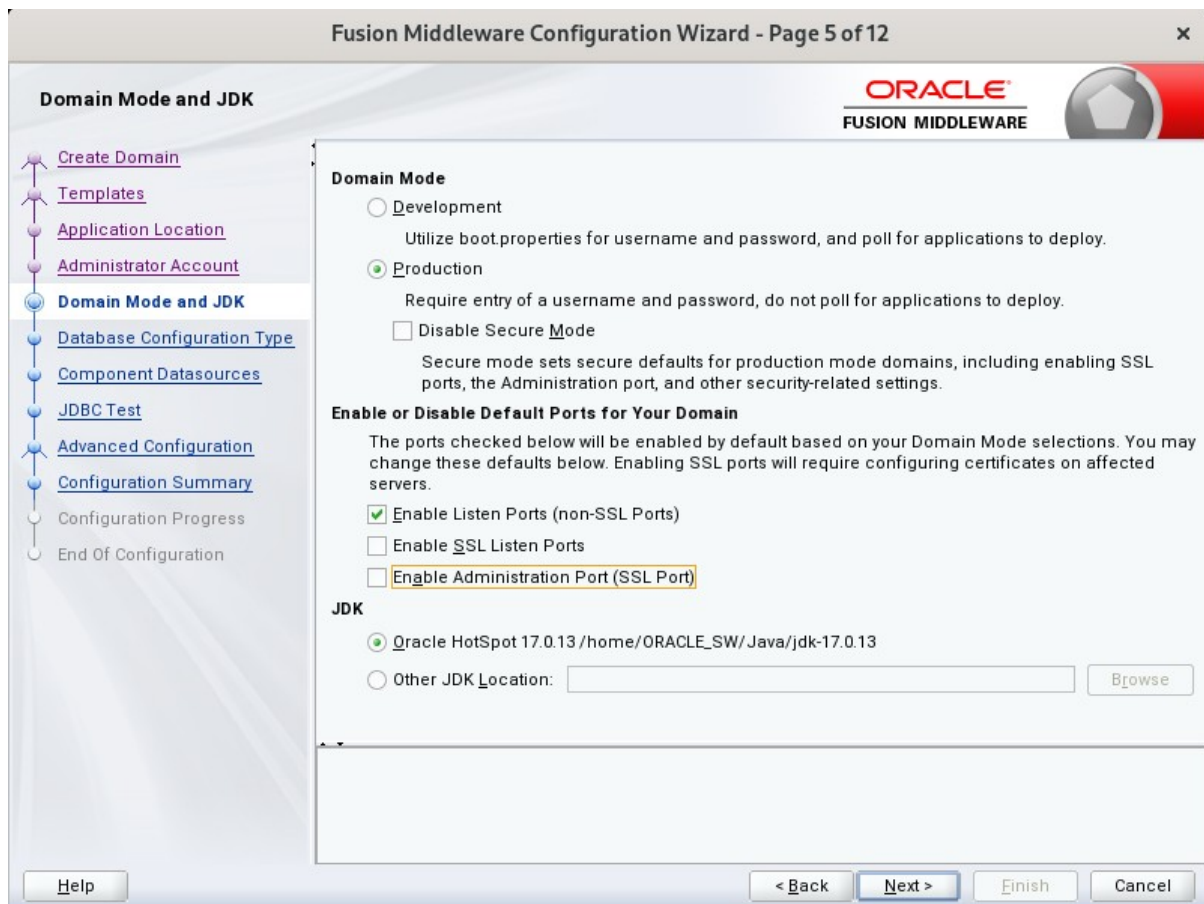
4). The **Administrator Account** screen appears.



The screenshot shows the 'Administrator Account' screen of the Fusion Middleware Configuration Wizard. The window title is 'Fusion Middleware Configuration Wizard - Page 4 of 12'. The Oracle logo and 'FUSION MIDDLEWARE' text are in the top right. A sidebar on the left lists the configuration steps: Create Domain, Templates, Application Location, Administrator Account (selected), Domain Mode and JDK, Database Configuration Type, Component Datasources, JDBC Test, Advanced Configuration, Configuration Summary, Configuration Progress, and End Of Configuration. The main area contains three input fields: 'Name' with the value 'weblogic', 'Password' with masked characters '.....', and 'Confirm Password' with masked characters '.....'. Below these fields is a note: 'Must be the same as the password. Password must contain at least 8 alphanumeric characters with at least one number or special character.' At the bottom are buttons for 'Help', '< Back', 'Next >', 'Finish', and 'Cancel'.

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

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



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

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

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

The screenshot shows the 'Database Configuration Type' screen of the Fusion Middleware Configuration Wizard. The title bar indicates 'Fusion Middleware Configuration Wizard - Page 6 of 12'. The Oracle logo and 'FUSION MIDDLEWARE' text are in the top right. A sidebar on the left lists the configuration steps: Create Domain, Templates, Application Location, Administrator Account, Domain Mode and JDK, Database Configuration Type (selected), Component Datasources, JDBC Test, Advanced Configuration, Configuration Summary, Configuration Progress, and End Of Configuration. The main area is titled 'Specify AutoConfiguration Options Using:' and has two radio buttons: 'RCU Data' (selected) and 'Manual Configuration'. Below this, a text box explains that the wizard uses the schema credentials from the Common Infrastructure Services component in the Repository Creation Utility to automatically configure the datasources. The 'Vendor' is set to 'Oracle' and the 'Driver' is '*Oracle's Driver (Thin) for Service connections; Versi...'. There are two radio buttons for 'Connection Parameters' (selected) and 'Connection URL String'. The 'Host Name' is 'c3n1', 'DBMS/Service' is 'sles_pdb', 'Port' is '1521', 'Schema Owner' is 'DEV1_STB', and 'Schema Password' is masked with dots. There are 'Get RCU Configuration' and 'Cancel' buttons. Below is a 'Connection Result Log' showing the following messages: 'Connecting to the database server...OK', 'Retrieving schema data from database server...OK', 'Binding local schema components with retrieved data...OK', and 'Successfully Done.'. At the bottom, it says 'Click 'Next' button to continue.' and there are 'Help', '< Back', 'Next >', 'Finish', and 'Cancel' buttons.

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

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

Fusion Middleware Configuration Wizard - Page 7 of 12

JDBC Component Schema

ORACLE
FUSION MIDDLEWARE

Vendor: Driver:

☐ Connection Parameters ☒ Connection URL String

URL: [Connection Properties](#)

Schema Owner: Schema Password:

Oracle RAC configuration for component schemas:

☐ Convert to GridLink ☐ Convert to RAC multi data source ☐ Don't convert

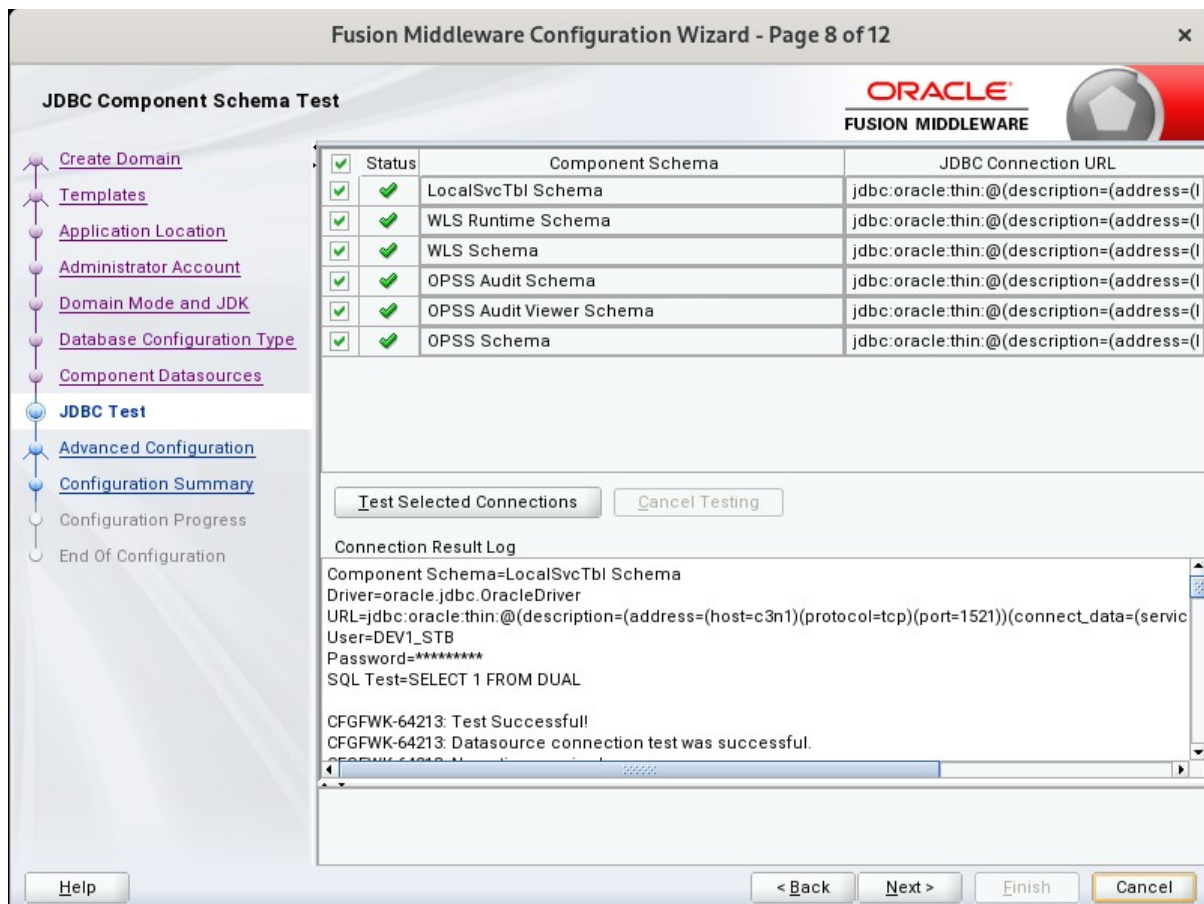
Edits to the data above will affect all checked rows in the table below.

<input type="checkbox"/> Component Schema	URL	Schema Owner	Schema Password
<input type="checkbox"/> LocalSvcTbl Schema	jdbc:oracle:thin:@(description=(addre:	DEV1_STB	.....
<input type="checkbox"/> WLS Runtime Schema	jdbc:oracle:thin:@(description=(addre:	DEV1_WLS_RUN	.....
<input type="checkbox"/> WLS Schema	jdbc:oracle:thin:@(description=(addre:	DEV1_WLS	.....
<input type="checkbox"/> OPSS Audit Schema	jdbc:oracle:thin:@(description=(addre:	DEV1_IAU_APPE	.....
<input type="checkbox"/> OPSS Audit Viewer Sche	jdbc:oracle:thin:@(description=(addre:	DEV1_IAU_VIEWI	.....
<input type="checkbox"/> OPSS Schema	jdbc:oracle:thin:@(description=(addre:	DEV1_OPSS	.....

Help < Back Next > Finish Cancel

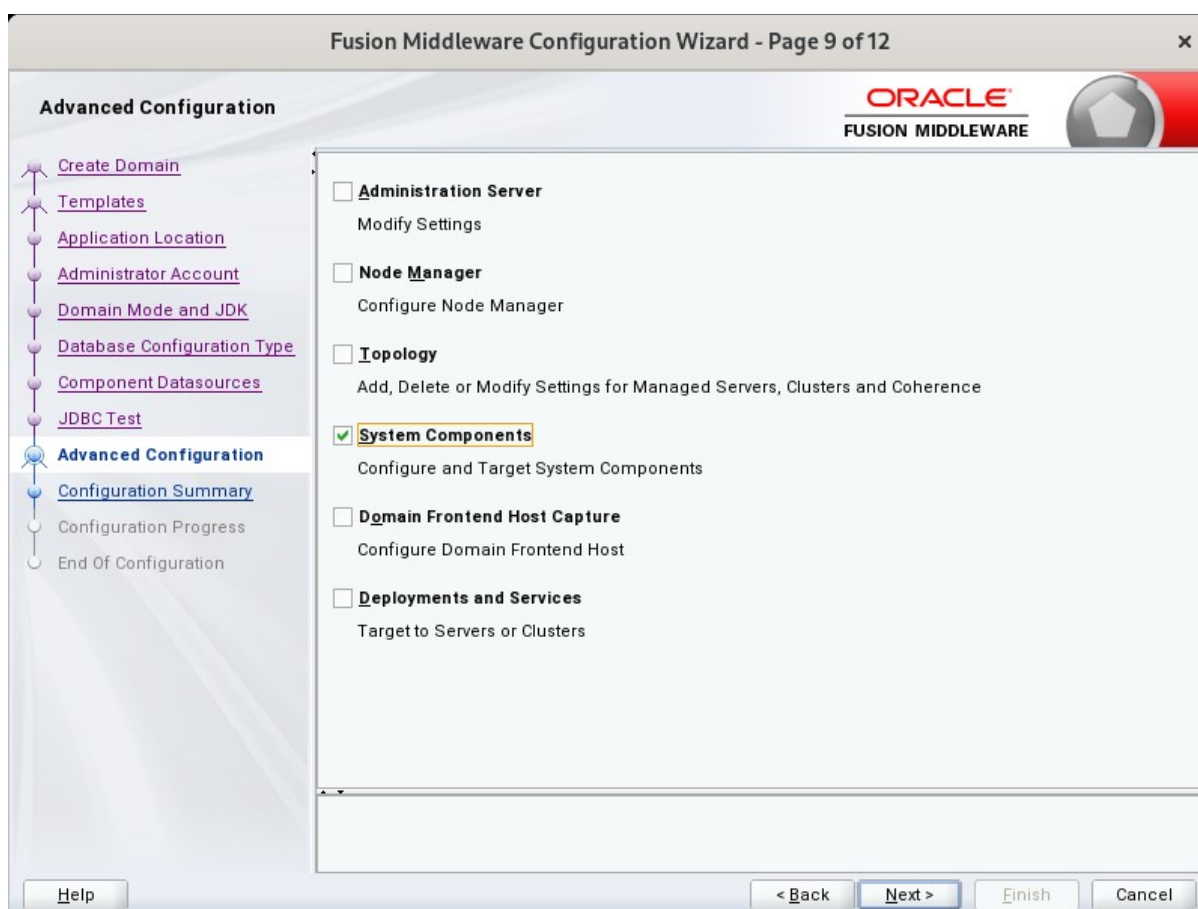
Our instructions assume each Repository schema uses the same password. If not, enter the correct schema passwords. Click **Next** to continue.

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.



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

10). The **System Components** screen appears.



The screenshot shows the 'System Components' screen of the Fusion Middleware Configuration Wizard. The title bar indicates 'Page 10 of 14'. The Oracle Fusion Middleware logo is in the top right. A left-hand navigation pane lists various configuration steps, with 'System Components' currently selected. The main area contains a table for managing system components, with buttons for 'Add', 'Delete', and 'Discard Changes' at the top. The table has four columns: 'System Component', 'Component Type', 'Restart Interval Seconds', and 'Restart Delay Seconds'. One row is present with the values 'ohs_1', 'OHS', '3600', and '0'. At the bottom, there are navigation buttons: '< Back', 'Next >', 'Finish', and 'Cancel'. A 'Help' button is located in the bottom left corner.

System Component	Component Type	Restart Interval Seconds	Restart Delay Seconds
ohs_1	OHS	3600	0

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.

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

The screenshot displays the 'Fusion Middleware Configuration Wizard - Page 11 of 15'. The title bar includes the Oracle logo and 'FUSION MIDDLEWARE'. The left sidebar shows a navigation tree with the following items: 'Create Domain', 'Templates', 'Application Location', 'Administrator Account', 'Domain Mode and JDK', 'Database Configuration Type', 'Component Datasources', 'JDBC Test', 'Advanced Configuration', 'System Components', 'OHS Server' (selected), 'Machines', 'Configuration Summary', 'Configuration Progress', and 'End Of Configuration'. The main area is titled 'OHS Server' and contains the following configuration fields:

Field	Value
System Component	ohs_1
Admin Host	127.0.0.1
Admin Port	7779
Listen Address	
Listen Port	7777
SSL Listen Port	4443
Server Name	http://localhost:7777

At the bottom of the window, there are four buttons: 'Help', '< Back', 'Next >' (highlighted), 'Finish', and 'Cancel'.

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

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

Fusion Middleware Configuration Wizard - Page 12 of 16

Machines

ORACLE
FUSION MIDDLEWARE

Machine: **Unix Machine**

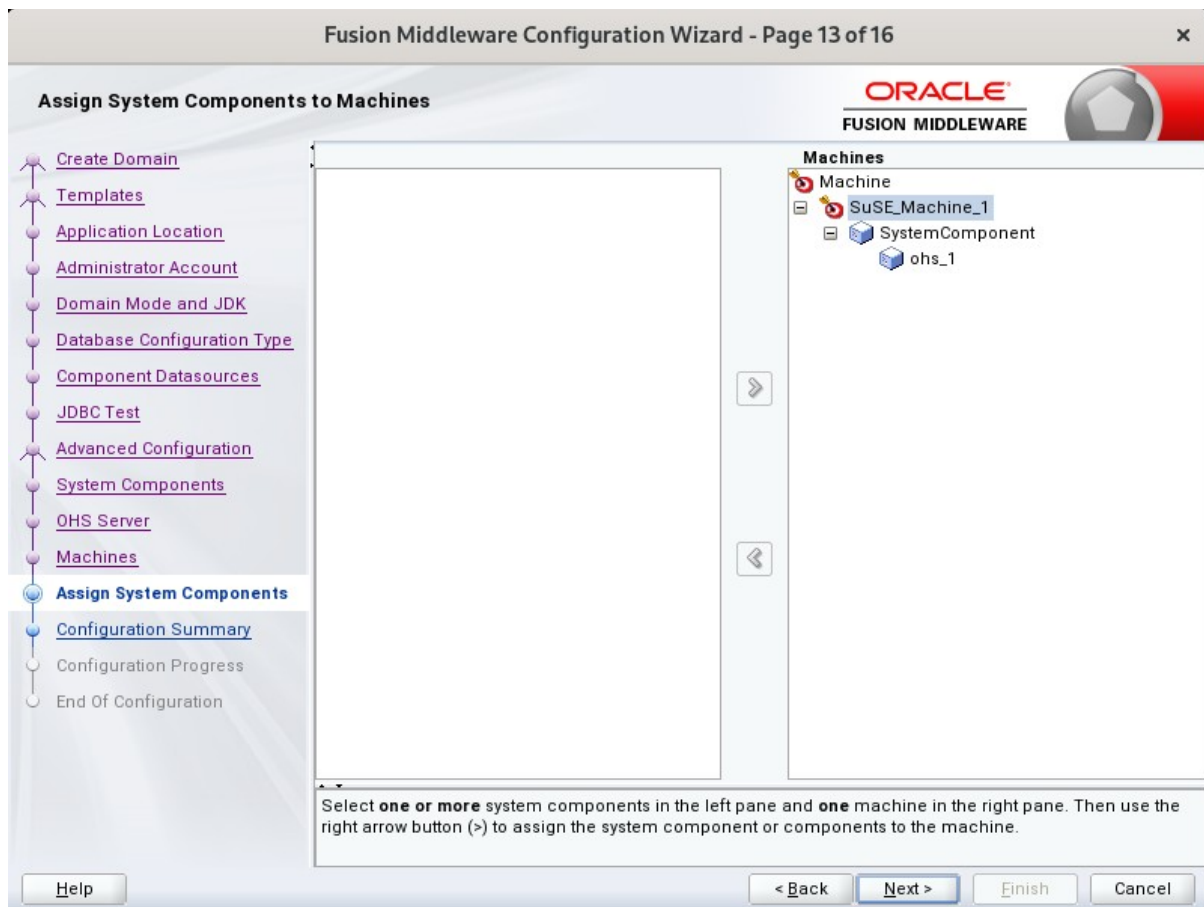
[+ Add](#) [X Delete](#) [Disgard Changes](#)

Name	Node Manager Listen Address	Node Manager Type	Node Manager Listen Port
SuSE_Machine_1	localhost	SSL	5556

[Help](#) [< Back](#) [Next >](#) [Finish](#) [Cancel](#)

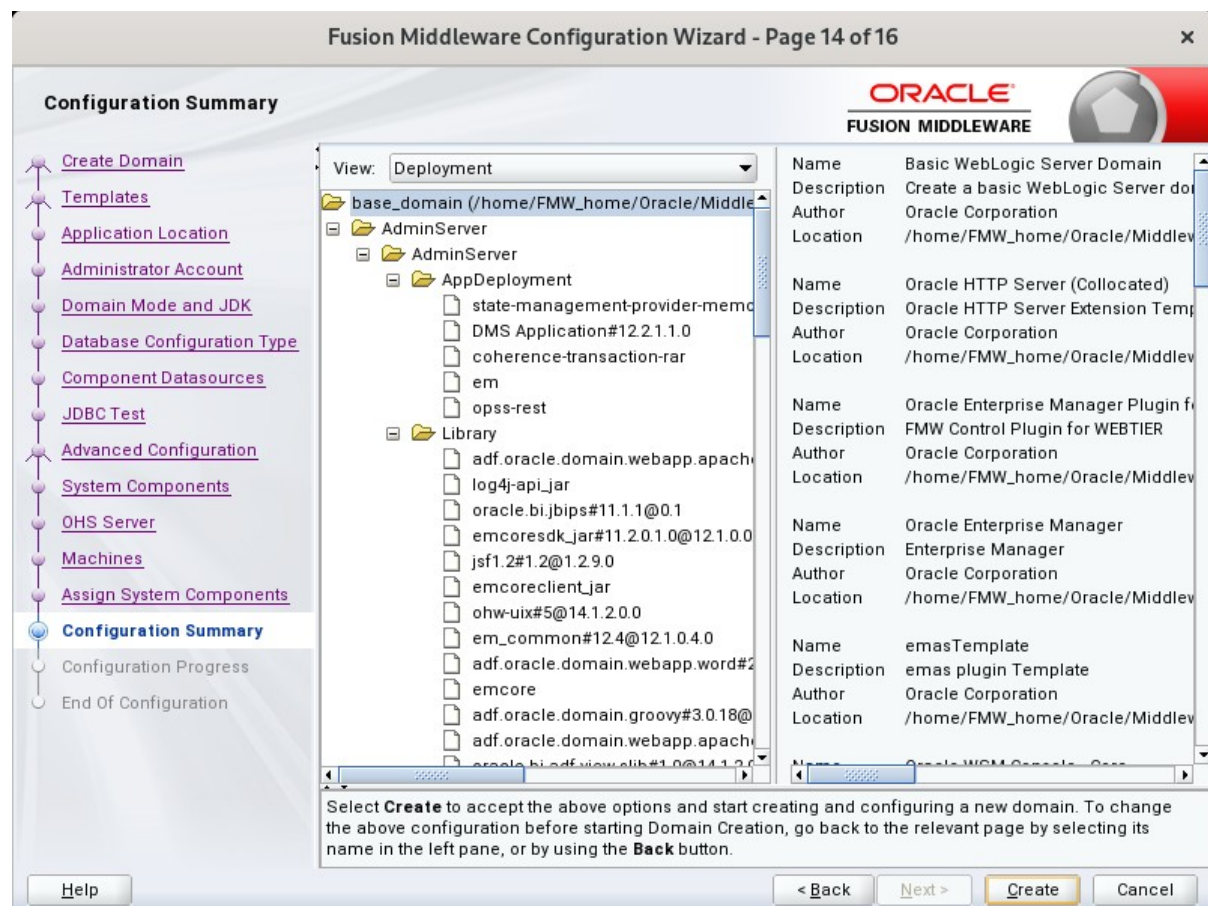
You can use this screen to override the machine name or add addition Machine names for extend domain. Click **Next** to continue.

13). The **Assign System Components** screen appears.



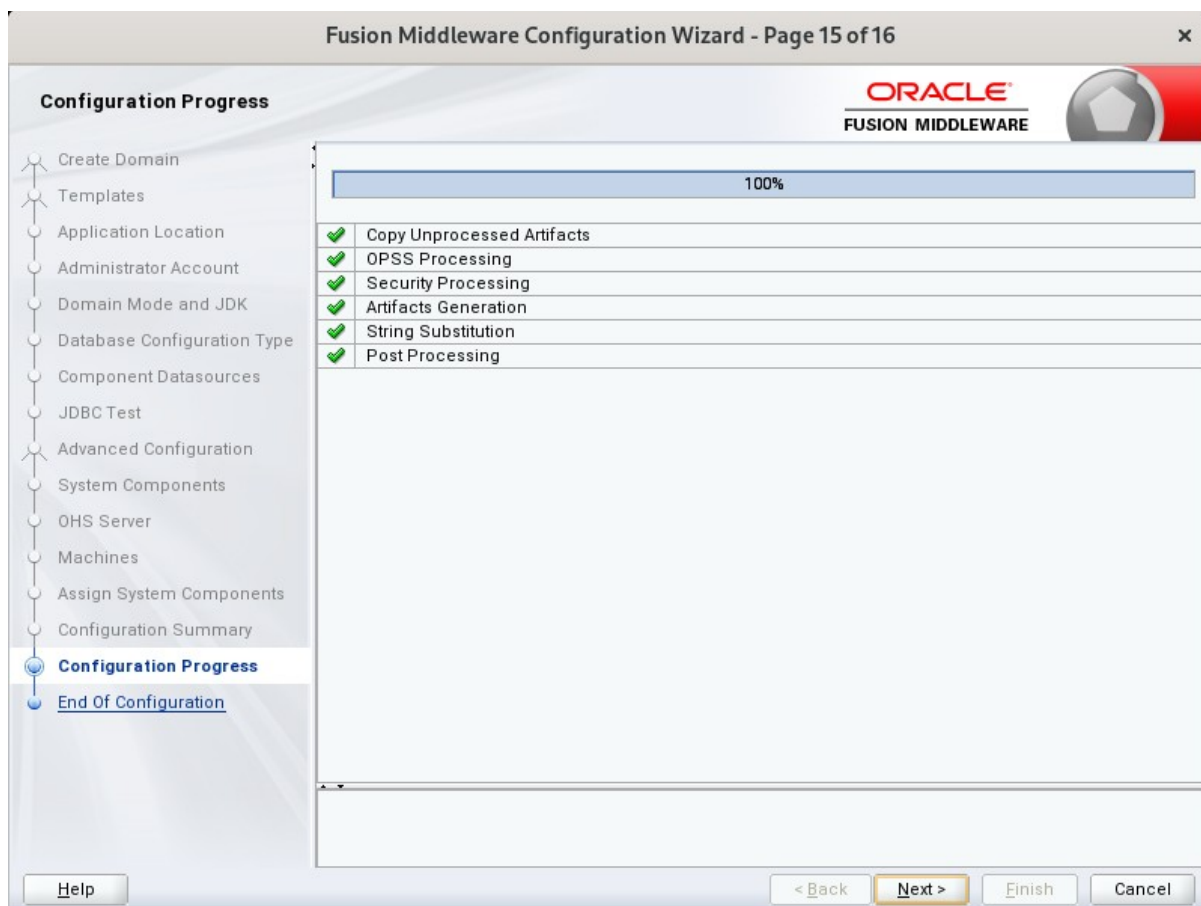
Select the '**ohs_1**' in the System Component list box and click the right arrow. Click **Next** to continue.

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



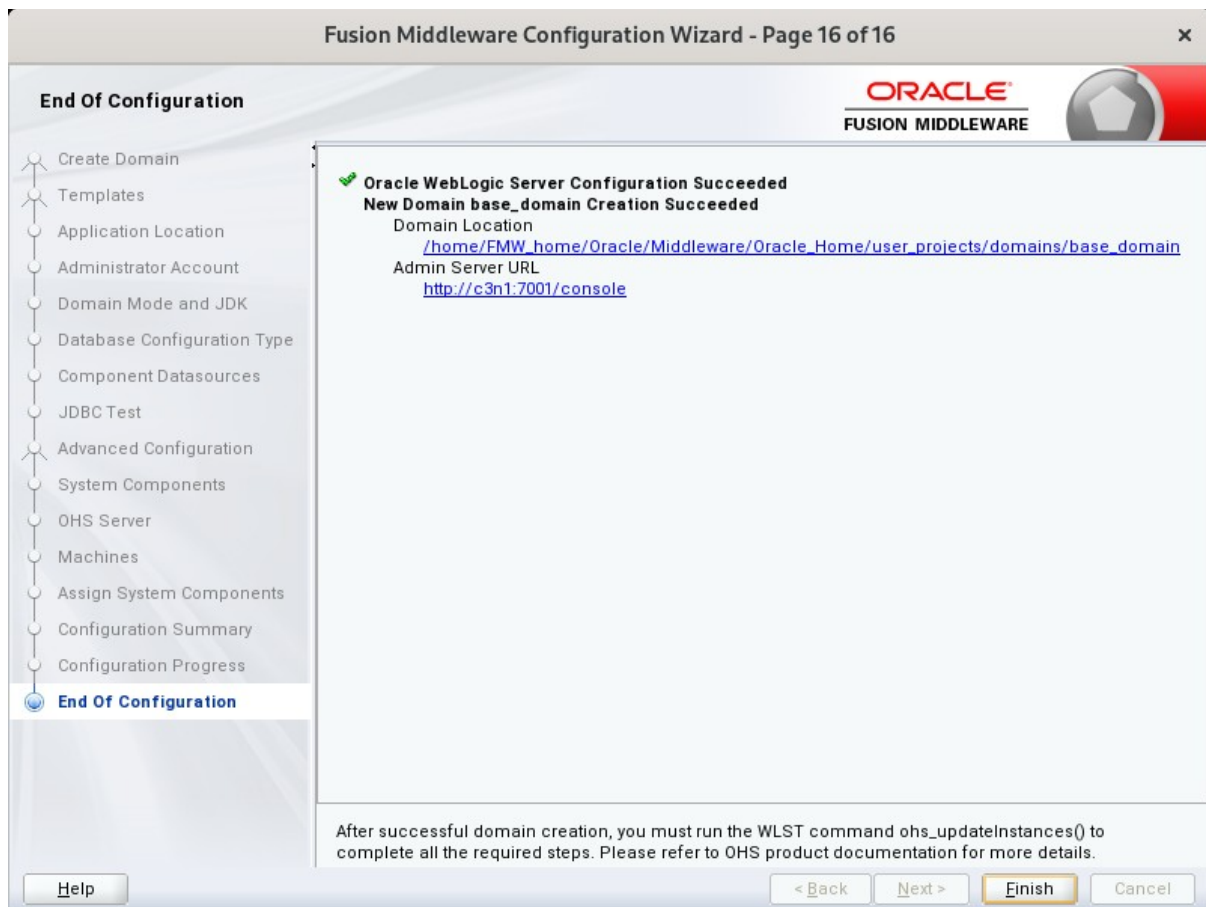
Select **Create** to accept the above options and start creating and configuring a new domain.

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.



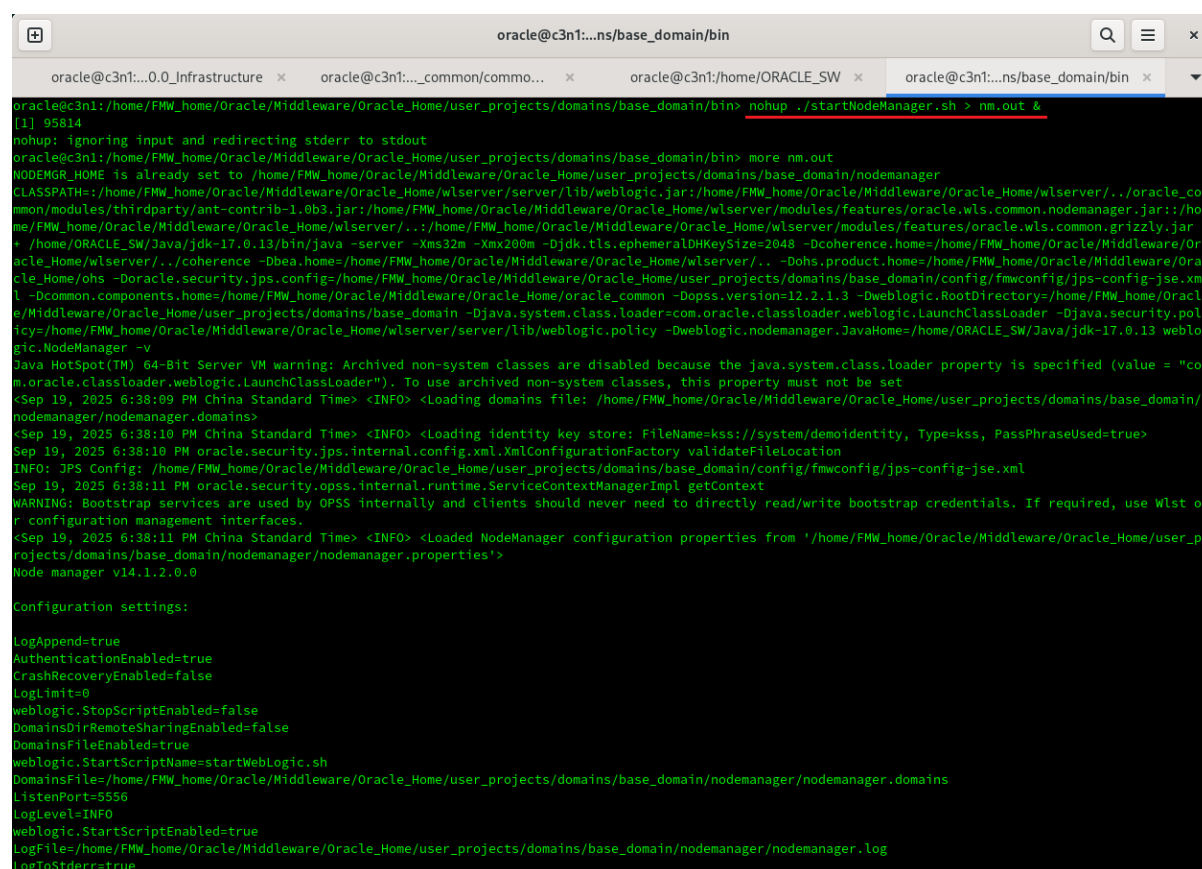
Once you see: "Oracle Weblogic Server Configuration Succeeded", record the '**Domain Location**' and '**Admin Server URL**', then click **Finish** to dismiss the Configuration Wizard.

4. Verifying Oracle WebTier 14c 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&'`



```

oracle@c3n1:...ns/base_domain/bin
[1] 95814
nohup: ignoring input and redirecting stderr to stdout
oracle@c3n1:/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/bin> more nm.out
NODEMGR_HOME is already set to /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/nodemanager
common/modules/thirdparty/ant-contrib-1.0b3.jar:/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/modules/features/oracle.wls.common.nodemanager.jar:/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/.../oracle.wls.common.grizzly.jar
+ /home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/.../oracle.wls.common.grizzly.jar
+ /home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/.../coherence -Dbea.home=/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/... -Dohs.product.home=/home/FMW_home/Oracle/Middleware/Oracle_Home/ohs -Doracle.security.jps.config=/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/jps-config-jse.xml -Dcommon.components.home=/home/FMW_home/Oracle/Middleware/Oracle_Home/oracle_common -Dopss.version=12.2.1.3 -Dweblogic.RootDirectory=/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain -Djava.system.class.loader=com.oracle.classloader.weblogic.LaunchClassLoader -Djava.security.policy=/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/server/lib/weblogic.policy -Dweblogic.nodemanager.JavaHome=/home/ORACLE_SW/Java/jdk-17.0.13 weblogic.NodeManager -v
Java HotSpot(TM) 64-Bit Server VM warning: Archived non-system classes are disabled because the java.system.class.loader property is specified (value = "com.oracle.classloader.weblogic.LaunchClassLoader"). To use archived non-system classes, this property must not be set
<Sep 19, 2025 6:38:09 PM China Standard Time> <INFO> <Loading domains file: /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/nodemanager/nodemanager.domains>
<Sep 19, 2025 6:38:10 PM China Standard Time> <INFO> <Loading identity key store: FileName=kss://system/demoidentity, Type=kss, PassPhraseUsed=true>
Sep 19, 2025 6:38:10 PM oracle.security.jps.internal.config.xml.XmlConfigurationFactory validateFileLocation
INFO: JPS Config: /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/jps-config-jse.xml
Sep 19, 2025 6:38:11 PM oracle.security.opss.internal.runtime.ServiceContextManagerImpl getContext
WARNING: Bootstrap services are used by OPSS internally and clients should never need to directly read/write bootstrap credentials. If required, use Wlst or configuration management interfaces.
<Sep 19, 2025 6:38:11 PM China Standard Time> <INFO> <Loaded NodeManager configuration properties from '/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/nodemanager/nodemanager.properties'>
Node manager v14.1.2.0.0

Configuration settings:
LogAppend=true
AuthenticationEnabled=true
CrashRecoveryEnabled=false
LogLimit=0
weblogic.StopScriptEnabled=false
DomainsDirRemoteSharingEnabled=false
DomainsFileEnabled=true
weblogic.StartScriptName=startWebLogic.sh
DomainsFile=/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/nodemanager/nodemanager.domains
ListenPort=5556
LogLevel=INFO
weblogic.StartScriptEnabled=true
LogFile=/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/nodemanager/nodemanager.log
LogToStderr=true

```

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

```

oracle@c3n1:...0.0_Infra... x oracle@c3n1:...common... x oracle@c3n1:/home/ORACLE... x oracle@c3n1:...ns/base_... x oracle@c3n1:...ns/base_... x
Anonymous-urls:[/em/IESvgdetect.js.*, /em/LoginStatusServlet.*, /em/adf.*, /em/adflib.*, /em/afr.*, /em/bi.*, /em/bmp/discovertargets, /em/cabo.*, /em
/console/help.*, /em/console/login.*, /em/consoleStatus.jsp, /em/dynamicImage.*, /em/ecm/csa/CSA.jar, /em/ecm/csa/CSA.mb, /em/ecm/csa/csabanner.gif, /em/e
mcli/custAttrib.*, /em/emr.*, /em/faces/login.*, /em/faces/helppages.*, /em/flashbridge.*, /em/formsapp/lib/formsRecorder.jar, /em/images/.*, /em/instal
l/getAgentImage, /em/helppages/help.*, /em/jsLibs/.*, /em/jsLibs0bf.*, /em/login.jsp, /em/mapproxy.*, /em/mobile/core/uifwk/skins/.*, /em/ocamm/lib.*, /em
/onetime.*, /em/ovs/discovertargets, /em/public/.*, /em/public_lib_download/.*, /em/redirect.*, /em/relocatetarget.*, /em/sdkImpl/core/uifwkmobile/skins/.*,
/em/servlet/GaugesServlet.*, /em/servlet/GraphServlet.*, /em/swlib/getfile, /em/VncViewer.jar, /em/websvcs.*, /em/jobrecv.*]
<Sep 19, 2025, 6:43:55,714 PM China Standard Time> <Warning> <oracle.adf.share.props.ConfigPropertyManager> <BEA-000000> <Cannot find class OAUtality
Detail: (java.lang.ClassNotFoundException) oracle.apps.fnd.applcore.oaext.model.OAUtality>
Application: em started in phase0 (adf-config value is 0, profile value is -1)
<Sep 19, 2025, 6:43:59,479 PM China Standard Time> <Warning> <oracle.adfinternal.view.faces.partition.FeatureUtils> <ADF_FACES-30130> <Ignoring feature-dep
endency on feature "AdfUJChoose". No such feature exists.>
<Sep 19, 2025, 6:44:00,751 PM China Standard Time> <Notice> <Log Management> <BEA-170027> <The server has successfully established a connection with the Do
main level Diagnostic Service.>
<Sep 19, 2025, 6:44:00,992 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to ADMIN.>
<Sep 19, 2025, 6:44:01,026 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to RESUMING.>
<Sep 19, 2025, 6:44:01,027 PM China Standard Time> <Notice> <JMX> <BEA-149535> <JMX Resiliency Activity Server=All Servers : Resolving connection list Doma
inRuntimeServiceMBean>
<Sep 19, 2025, 6:44:01,132 PM China Standard Time> <Warning> <Server> <BEA-002611> <The hostname "localhost", maps to multiple IP addresses: 127.0.0.1, 0:0
:0:0:0:1.>
<Sep 19, 2025, 6:44:01,133 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default[4]" is now listening on 127.0.0.1:7001 for protocols ti
op, t3, ldap, snmp, http.>
<Sep 19, 2025, 6:44:01,134 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default[1]" is now listening on 192.168.3.1:7001 for protocols
tiop, t3, ldap, snmp, http.>
<Sep 19, 2025, 6:44:01,135 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default[2]" is now listening on 10.200.176.15:7001 for protocol
s tiop, t3, ldap, snmp, http.>
<Sep 19, 2025, 6:44:01,136 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default" is now listening on 10.200.176.11:7001 for protocols i
tiop, t3, ldap, snmp, http.>
<Sep 19, 2025, 6:44:01,136 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default[3]" is now listening on 0:0:0:0:0:0:1%lo:7001 for pro
tocols tiop, t3, ldap, snmp, http.>
<Sep 19, 2025, 6:44:01,136 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000398> <Secure mode enabled for WebLogic Server "AdminServer".>
<Sep 19, 2025, 6:44:01,137 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000329> <Started the WebLogic Server Administration Server "AdminServer"
for domain "base_domain" running in production mode.>
<Sep 19, 2025, 6:44:01,155 PM China Standard Time> <Warning> <Security> <BEA-090985> <Production Mode is enabled but the the file or directory /home/FMW_ho
me/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/bin/nm.out is insecure since its permission is not a minimum of umask 027. SOLUTION: Cha
nge the file or directory permission to at most allow only write by owner, read by group.>
<Sep 19, 2025, 6:44:01,160 PM China Standard Time> <Warning> <Security> <BEA-090983> <Secure Mode is enabled but the administration port is not enabled. SO
LUTION: Enable the administration port.>
<Sep 19, 2025, 6:44:01,161 PM China Standard Time> <Warning> <Security> <BEA-091033> <No dedicated network channel configured for HTTPS traffic. SOLUTION:
Oracle recommends creating a network channel for only HTTPS traffic for externally available applications. Configure your firewall so that the network chan
nel is available externally, and that the default network channel and other customer internal channels are only accessible internally.>
<Sep 19, 2025, 6:44:01,174 PM China Standard Time> <Warning> <Security> <BEA-091003> <Secure Mode requires that users in the Administrators group do not ha
ve obvious user names. SOLUTION: Change the user name "weblogic" so it is not a commonly used administrator name.>
<Sep 19, 2025, 6:44:01,361 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000360> <The server started in RUNNING mode.>
<Sep 19, 2025, 6:44:01,365 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to RUNNING.>

```

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

Server state changed to RUNNING.

4-3. Checking Oracle WebTier Product URLs.

1). Access to Enterprise Manager Console.

Login Page:

Domain Domain_base_domain

* User Name weblogic

* Password

Sign in

ORACLE

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Home Page:

base_domain (Oracle WebLo x)

http://c3n1:7001/em/faces/as-weblogic-webLogicDomainHome?type=weblogic_domain&target=/Domain_base

ORACLE Enterprise Manager Fusion Middleware Control 14.1.2

WebLogic Domain weblogic

base_domain

WebLogic Domain

Sep 19, 2025, 6:47:26 PM CST

Information

Certain functionality on this page is available only when you own the edit session lock. To obtain the lock, click "Lock and Edit" in the Change Center menu.

Servers

1 Up

Administration Server

Name AdminServer

Host c3n1.oraclelab.bej.suse.com

Listen Port 7001

Servers

Name	Status	Cluster	Machine	State	Health	Listen Port	CPU Usage (%)
AdminServer(admin)	Up			Running	OK	7001	0.00

Columns Hidden 34

Servers 1 of 1

Starting Oracle HTTP Server (ohs_1)

Oracle Enterprise Manager Fusion Middleware Control 14.1.2

ohs_1 (Oracle HTTP Server) - x

http://c3n1:7001/em/faces/as_ohs_ohsHome?type=oracle_apache&target=%2FDomain_base_domain%2Fbase...

WebLogic Domain weblogic

Auto Refresh Off

Sep 19, 2025, 6:47:58 PM CST

Monitoring

Metrics Unavailable

Virtual Hosts

Virtual Hosts

Modules

Modules

General

Component Name ohs_1

Version 14.1.2.0.0

State Shutdown

Response and Load

Key Statistics

Error Rate (%) -1.00

Connection Duration (seconds) Unavailable

Request Processing Time (seconds) Unavailable

Request Throughput (per second) -1.00

Response Data Throughput (KB/second) -1.00

Confirmation

Start Operation on target /Domain_base_domain/base_domain/ohs_1 - Completed Successfully

Validate Start Up operation on target /Domain_base_domain/base_domain/ohs_1

Perform Start Up operation on target /Domain_base_domain/base_domain/ohs_1

Checking operation status on target /Domain_base_domain/base_domain/ohs_1

Operation Start Up on target /Domain_base_domain/base_domain/ohs_1 succeeded

Close

ohs_1 is up.

Oracle Enterprise Manager Fusion Middleware Control 14.1.2

ohs_1 (Oracle HTTP Server) - x

http://c3n1:7001/em/faces/as_ohs_ohsHome?type=oracle_apache&target=%2FDomain_base_domain%2Fbase...

WebLogic Domain weblogic

Auto Refresh Off

Sep 19, 2025, 6:49:06 PM CST

Monitoring

CPU Usage (%) 0.00

Memory Usage (%) 0.00

Virtual Hosts

Virtual Hosts

Modules

Modules

General

Component Name ohs_1

Version 14.1.2.0.0

State Running

Host c3n1.orac1ab.bej.suse.com

Ports 7777 4443 127.0.0.1:7779

Machine Name SuSE_Machine_1

Auto Restart ✓

Oracle Home /home/FMW_home/Oracle/Middleware/Oracle_Home

Response and Load

Key Statistics

Idle Processes Unavailable

Busy Processes Unavailable

Error Rate (%) -1.00

Connection Duration (seconds) Unavailable

Request Processing Time (seconds) Unavailable

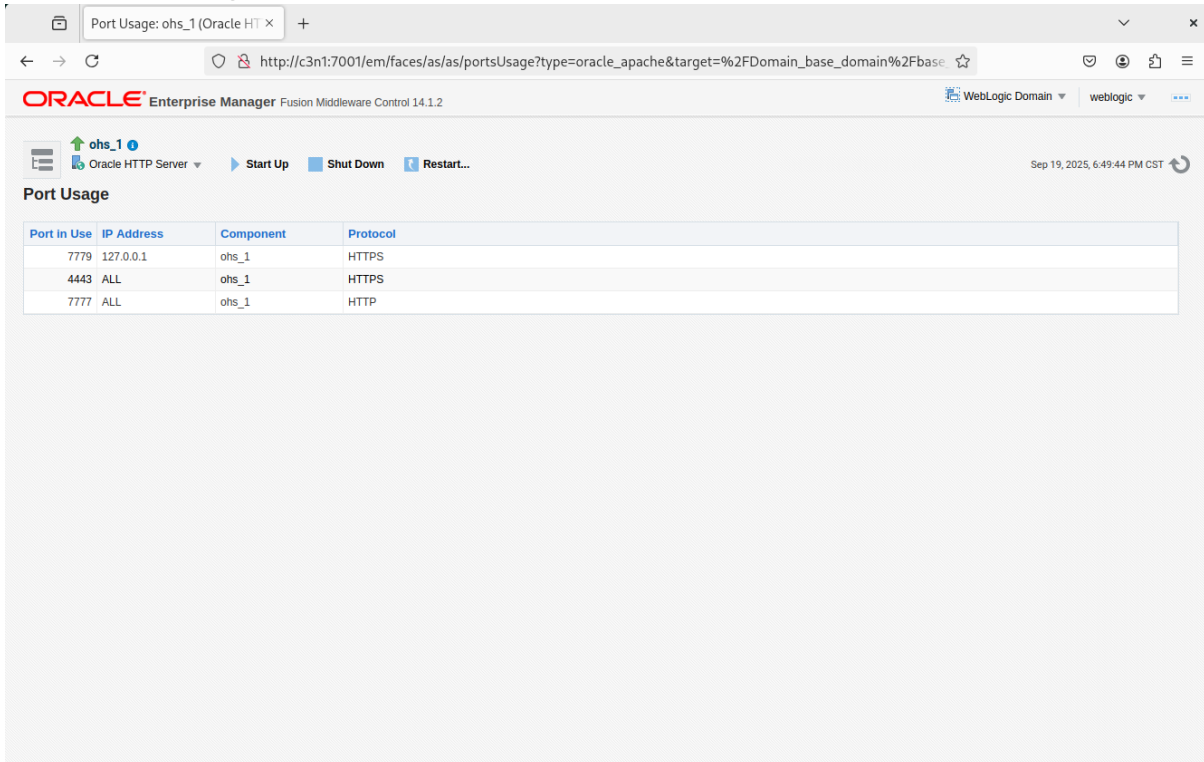
Request Throughput (per second) -1.00

Response Data Throughput (KB/second) -1.00

CPU and Memory Usage

CPU Usage (%)

Memory Usage (MB)

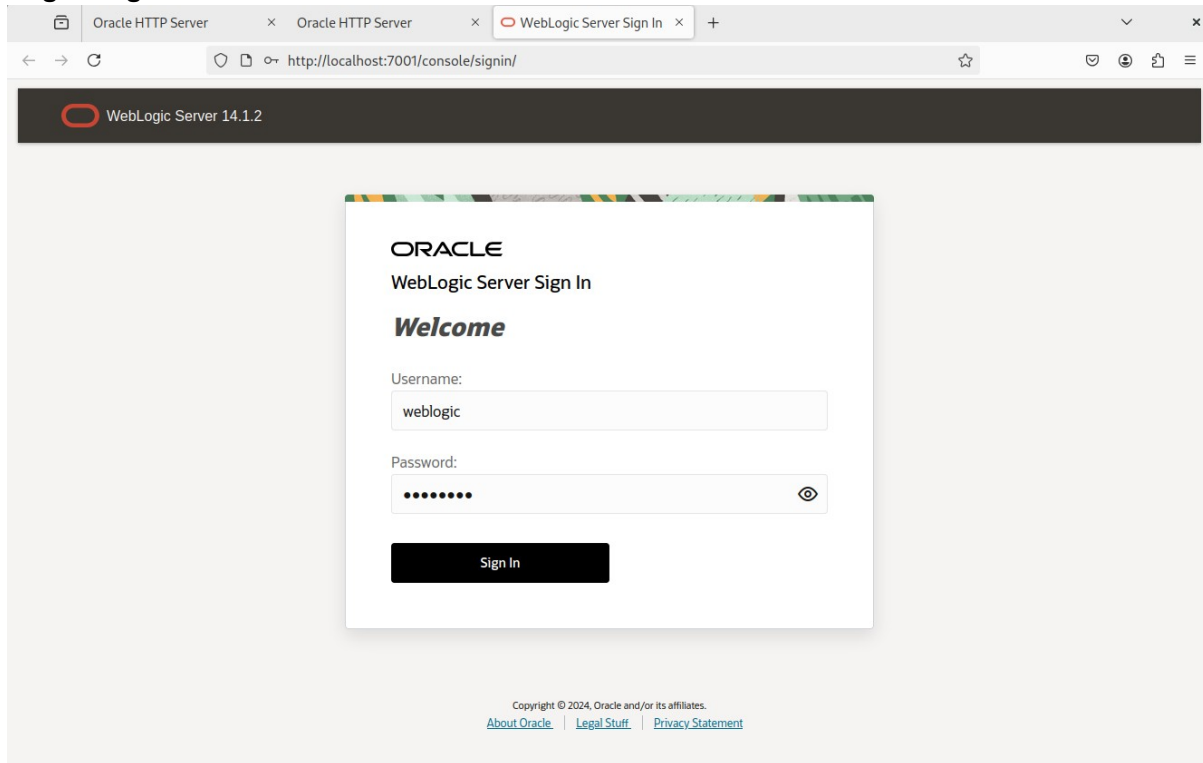
OHS Ports Configuration as shown below.

The screenshot displays the Oracle Enterprise Manager Fusion Middleware Control interface. The top navigation bar shows the Oracle logo and the text "Enterprise Manager Fusion Middleware Control 14.1.2". The breadcrumb trail indicates the current location: "WebLogic Domain" > "weblogic". The main content area shows the "ohs_1" component, which is an "Oracle HTTP Server". Below this, the "Port Usage" section contains a table with the following data:

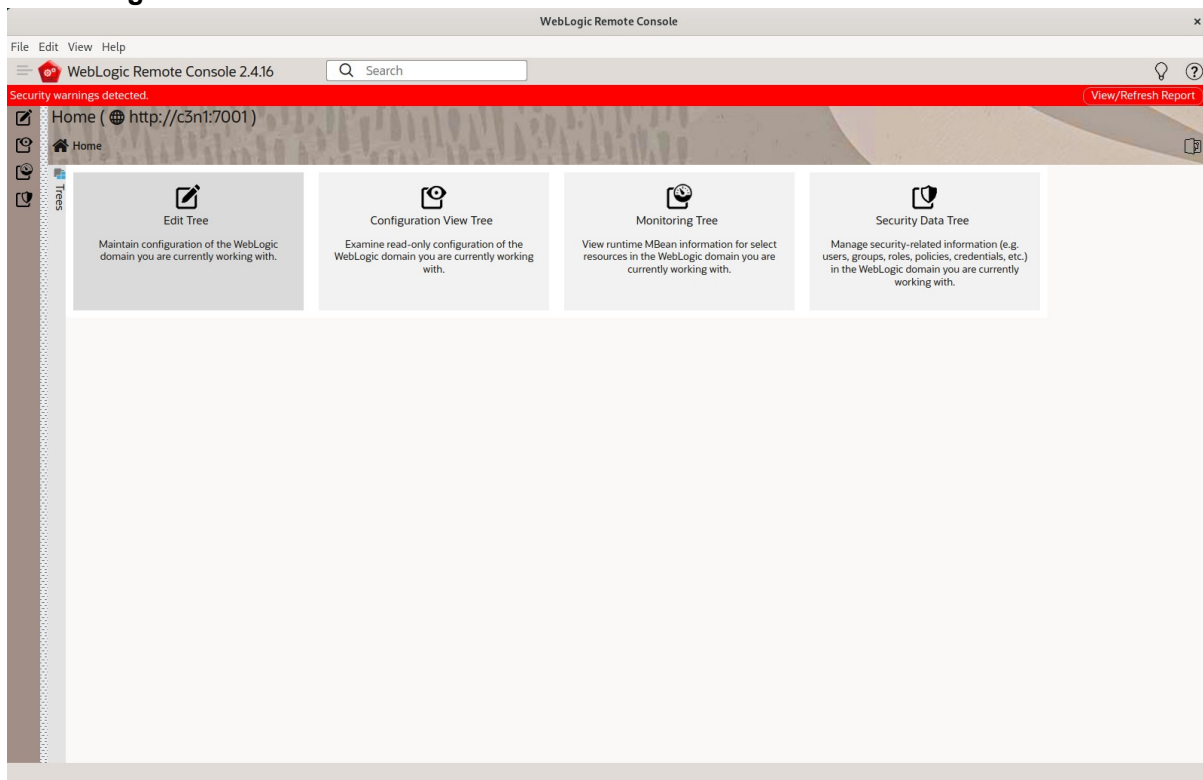
Port In Use	IP Address	Component	Protocol
7779	127.0.0.1	ohs_1	HTTPS
4443	ALL	ohs_1	HTTPS
7777	ALL	ohs_1	HTTP

2). Access to Administration Server Console

Login Page as shown below:



Home Page:



Viewing the summary of servers:

The screenshot shows the WebLogic Remote Console interface for ServerRuntimes. The left sidebar contains a navigation tree with categories like Environment, Domain Runtime, Domain Security Runtime, Servers, and others. The main panel displays the 'Monitoring Tree' for the URL http://c3n1:7001. It includes a 'Servers' dropdown, a 'Customize Table' button, and a 'New Dashboard' button. Below this, there is a table of servers. The table has columns: Name, State, Current Machine, Complete Reqs, Open Sockets, Health, and Stuck Threads. One server, 'AdminServer', is listed with a state of 'Running' and a health of 'Okay'.

Name	State	Current Machine	Complete Reqs	Open Sockets	Health	Stuck Threads
AdminServer	Running		16570	8	Okay	0

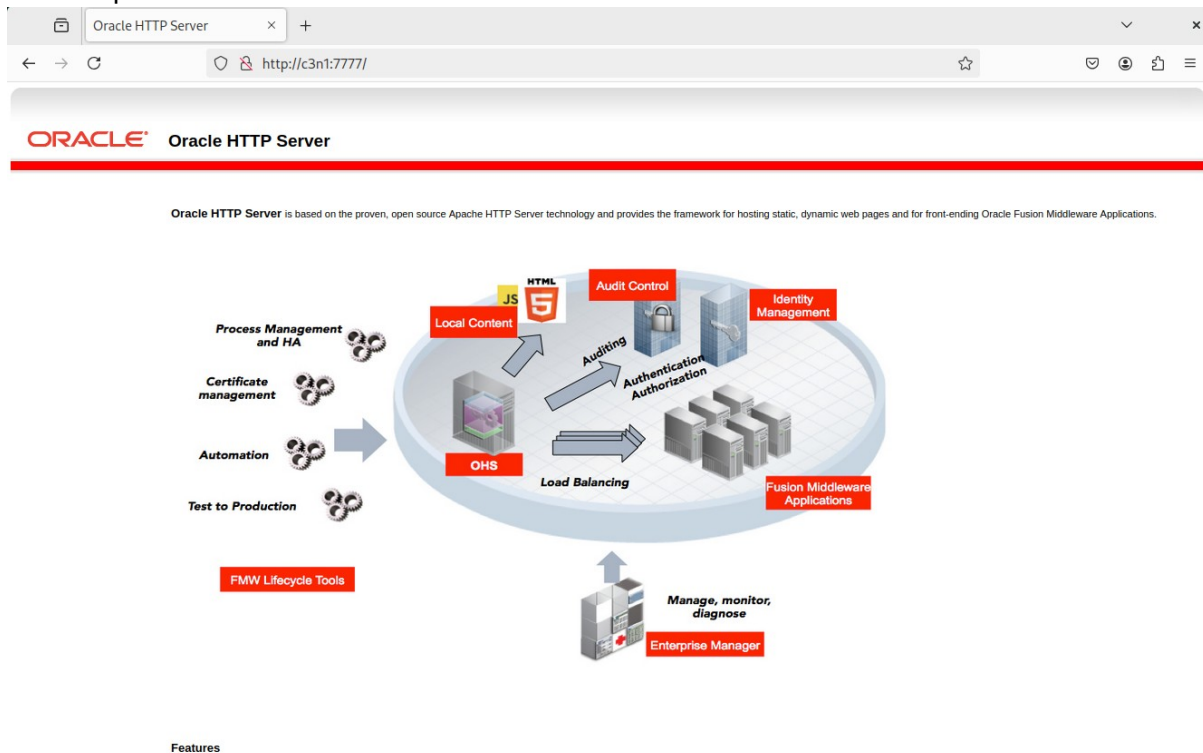
Viewing the summary of Machines:

The screenshot shows the WebLogic Remote Console interface for Machines. The left sidebar contains a navigation tree with categories like Environment, Domain, Servers, Clusters, Server Templates, and Machines. The main panel displays the 'Configuration View Tree' for the URL http://c3n1:7001. It includes a 'Machines' dropdown, a 'Customize Table' button, and a 'View/Refresh Report' button. Below this, there is a table of machines. The table has columns: Name and Type. One machine, 'SuSE_Machine_1', is listed with a type of 'Machine'.

Name	Type
SuSE_Machine_1	Machine

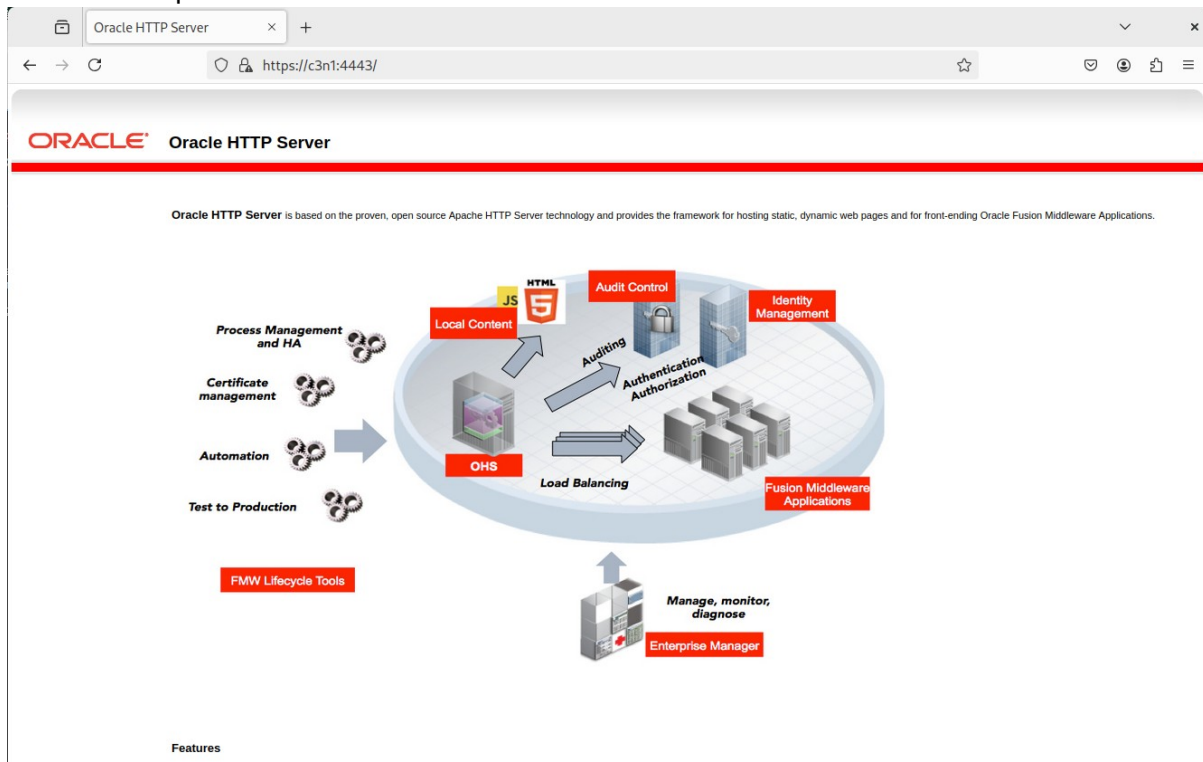
3). Access to Oracle HTTP Server listening address

URL: <http://host:7777/>



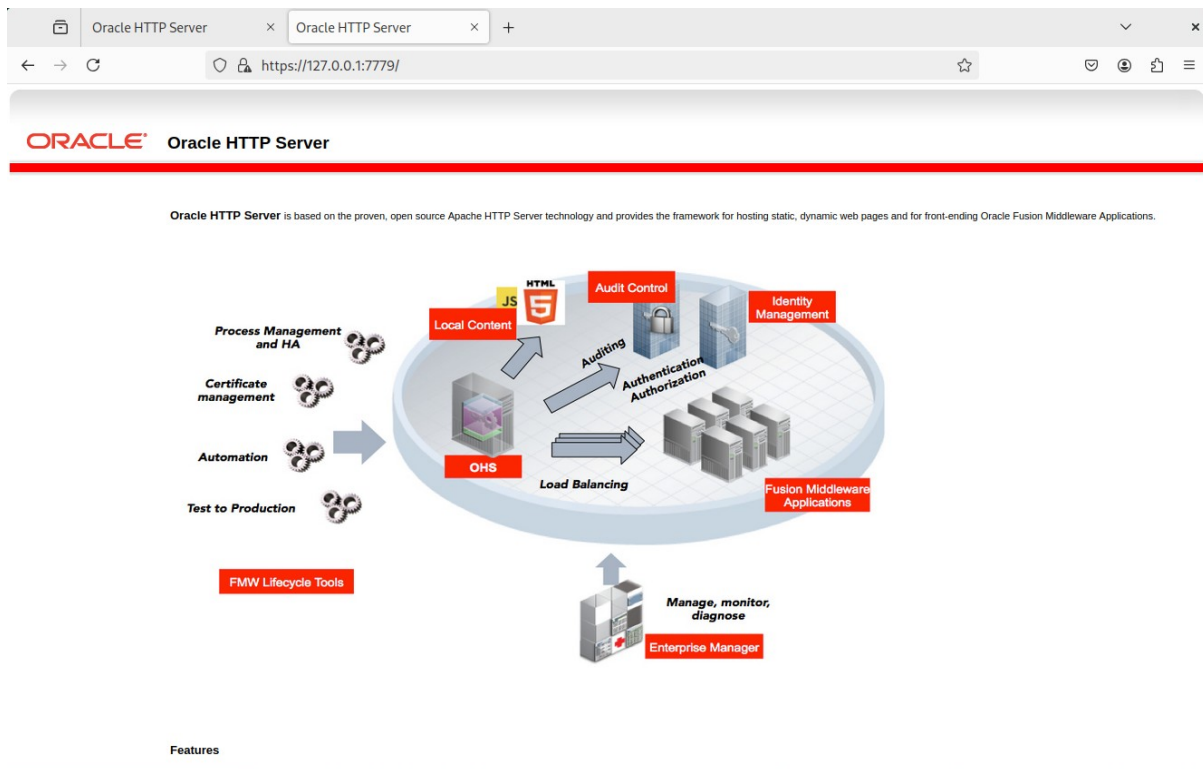
The screenshot shows a web browser window with the address bar displaying <http://c3n1:7777/>. The page header features the Oracle logo and the text "Oracle HTTP Server". Below the header, a paragraph states: "Oracle HTTP Server is based on the proven, open source Apache HTTP Server technology and provides the framework for hosting static, dynamic web pages and for front-ending Oracle Fusion Middleware Applications." The main content area contains a diagram illustrating the architecture of Oracle HTTP Server. The diagram shows a central circle representing the server, with various components and tools surrounding it. On the left, a vertical stack of icons represents "Process Management and HA", "Certificate management", "Automation", and "Test to Production". Below these is a red box labeled "FMW Lifecycle Tools". On the right, a vertical stack of icons represents "Local Content", "HTML", "JS", "Audit Control", "Identity Management", "Auditing", "Authentication", "Authorization", "Load Balancing", and "Fusion Middleware Applications". Below these is a red box labeled "Enterprise Manager". At the bottom, a red box labeled "Manage, monitor, diagnose" is shown. The diagram also includes a red box labeled "OHS" (Oracle HTTP Server) and a red box labeled "Enterprise Manager".

SSL URL: <https://host::4443/>



The screenshot shows a web browser window with the address bar displaying <https://c3n1:4443/>. The page header features the Oracle logo and the text "Oracle HTTP Server". Below the header, a paragraph states: "Oracle HTTP Server is based on the proven, open source Apache HTTP Server technology and provides the framework for hosting static, dynamic web pages and for front-ending Oracle Fusion Middleware Applications." The main content area contains a diagram illustrating the architecture of Oracle HTTP Server. The diagram shows a central circle representing the server, with various components and tools surrounding it. On the left, a vertical stack of icons represents "Process Management and HA", "Certificate management", "Automation", and "Test to Production". Below these is a red box labeled "FMW Lifecycle Tools". On the right, a vertical stack of icons represents "Local Content", "HTML", "JS", "Audit Control", "Identity Management", "Auditing", "Authentication", "Authorization", "Load Balancing", and "Fusion Middleware Applications". Below these is a red box labeled "Enterprise Manager". At the bottom, a red box labeled "Manage, monitor, diagnose" is shown. The diagram also includes a red box labeled "OHS" (Oracle HTTP Server) and a red box labeled "Enterprise Manager".

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



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

```
oracle@c3n1:/home/FMW_home/Oracle/Middleware/Oracle_Home/oracle_common/common/bin> ./wlst.sh
Initializing WebLogic Scripting Tool (WLST) ...
Welcome to WebLogic Server Administration Scripting Shell
Type help() for help on available commands

wls:/offline> connect('weblogic','welcome1','c3n1:7001')
Connecting to t3://c3n1:7001 with userid weblogic ...
Successfully connected to Admin Server "AdminServer" that belongs to domain "base_domain".

Warning: An insecure protocol was used to connect to the server.
To ensure on-the-wire security, the SSL port or Admin port should be used instead.

wls:/base_domain/serverConfig/> state('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 14c

1-1. Prerequisites:

Installation of Oracle WebCenter Portal requires:

- 1). Oracle Database 19c installed.
- 2). Oracle JDK 17.0.12 and later installed.
- 3). Oracle WebLogic Server 14c (14.1.2.0.0) (Fusion Middleware Infrastructure Installer)

1-2. Log in to the target system (SLES 15 SP7 64-bit OS) as a non-admin user. Download the Oracle WebCenter Portal 14c (14.1.2.0.0) from <https://www.oracle.com/downloads/#category-middleware>. (**Note:** Please ensure the installation user has the proper permissions to install and configure the software.)

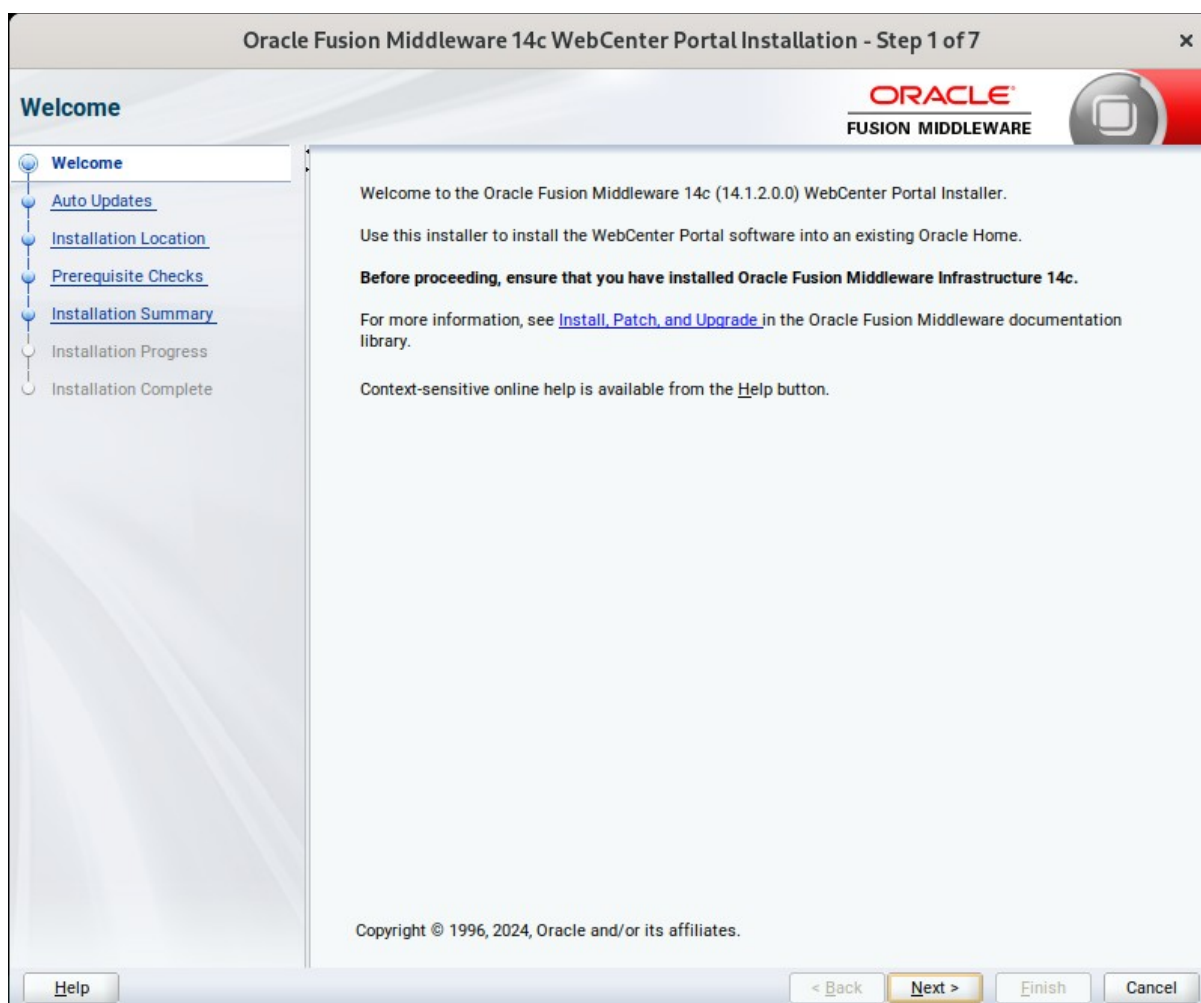
1-3. Go to the directory where you downloaded the installation program. Extract the contents of this .zip (V1045128-01.zip) file and launch the installation program by running '**java -jar fmw_14.1.2.0.0_wcportal.jar**'

For the actual installation, follow the steps below:

1). Installation Inventory Setup

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.



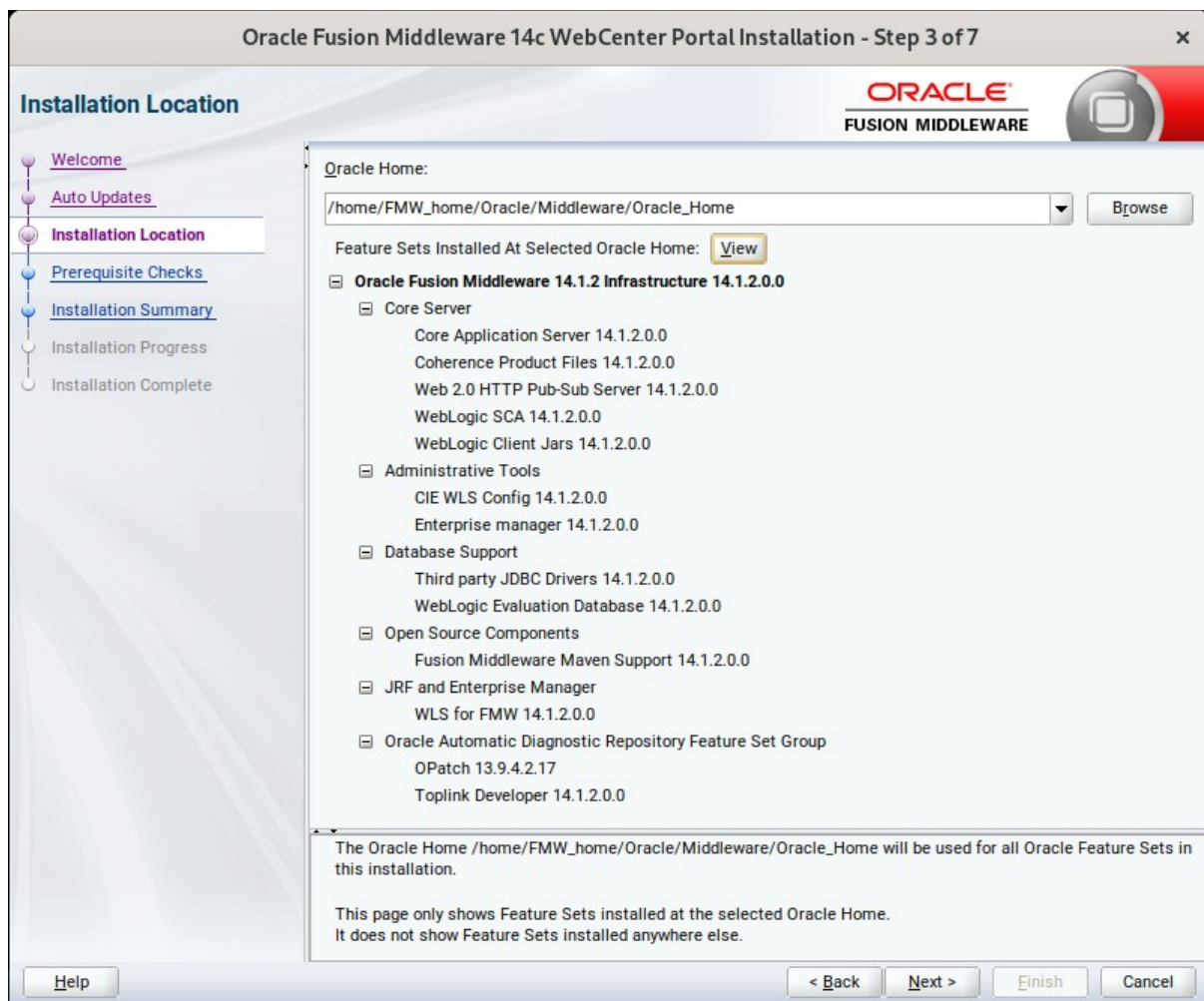
This page welcomes you to the installation. Click **Next** to continue.

3). The **Auto Updates** page appears.

The screenshot shows the 'Auto Updates' page in the Oracle Fusion Middleware 14c WebCenter Portal Installation wizard, Step 2 of 7. The page has a sidebar on the left with a navigation menu containing: Welcome, Auto Updates (selected), Installation Location, Prerequisite Checks, Installation Summary, Installation Progress, and Installation Complete. The main content area has the Oracle Fusion Middleware logo at the top right. Below the logo, there are three radio button options: 'Skip Auto Updates' (selected), 'Select patches from directory', and 'Search My Oracle Support for Updates'. The 'Select patches from directory' option has a 'Location:' text box and a 'Browse' button. The 'Search My Oracle Support for Updates' option has 'Username:' and 'Password:' text boxes, a 'Proxy Settings' button, and a 'Test Connection' button. Below these is a 'Search' button and a large empty rectangular box. At the bottom of the window, there are four buttons: 'Help', '< Back', 'Next >' (highlighted), 'Finish', and 'Cancel'.

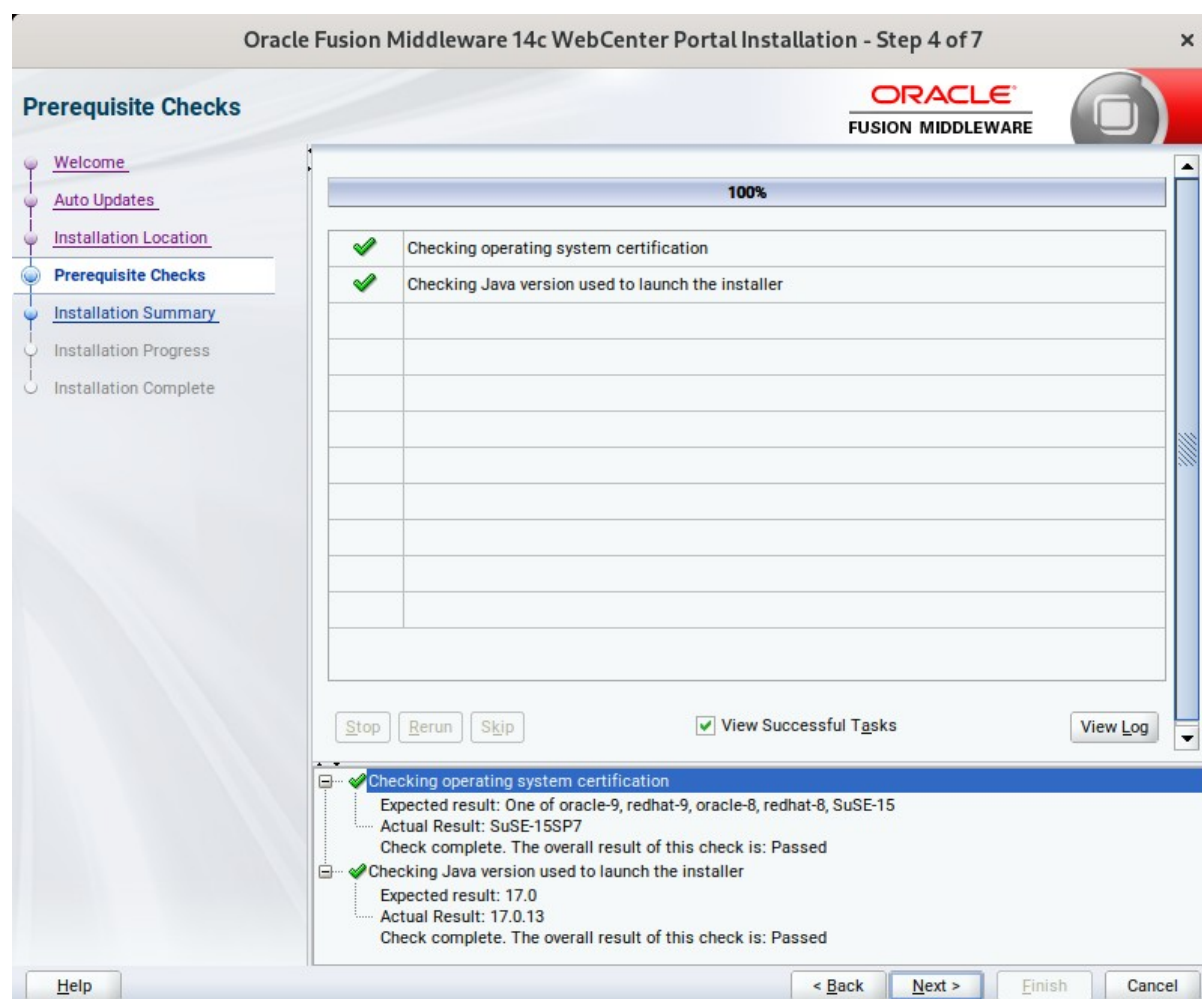
This page enables you to choose to automatically receive software updates for your components from Oracle Corporation. make your choices, then click **Next** to continue.

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



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

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



This page 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.

(Note:

1). **Oracle Fusion Middleware 14c (14.1.2.0.0) - Minimum Requirements for the SLES OS.**

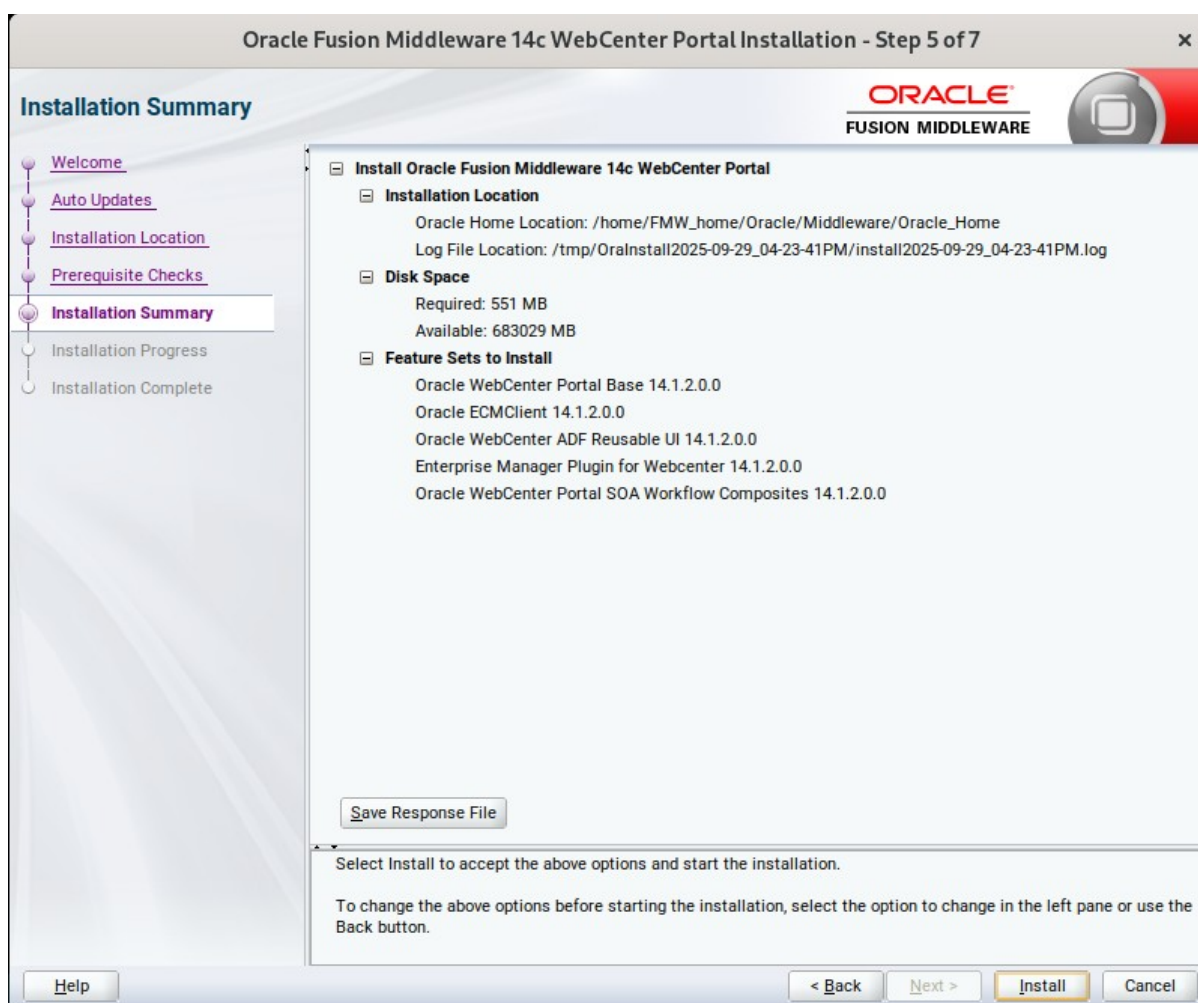
SUSE Linux Enterprise Server 15 (SP6+)

2). **Required Packages - Please ensure following packages(or later versions) are installed.**

```
binutils-2.41-150100.7.46.1-x86_64
glibc-2.38-150600.12.1-x86_64
linux-glibc-devel-6.4-150600.2.17-x86_64
glibc-devel-2.38-150600.12.1-x86_64
glibc-locale-2.38-150600.12.1-x86_64
glibc-extra-2.38-150600.12.1-x86_64
glibc-32bit-2.38-150600.12.1-x86_64
glibc-devel-32bit-2.38-150600.12.1-x86_64
mksh-56c-1.10-x86_64
```

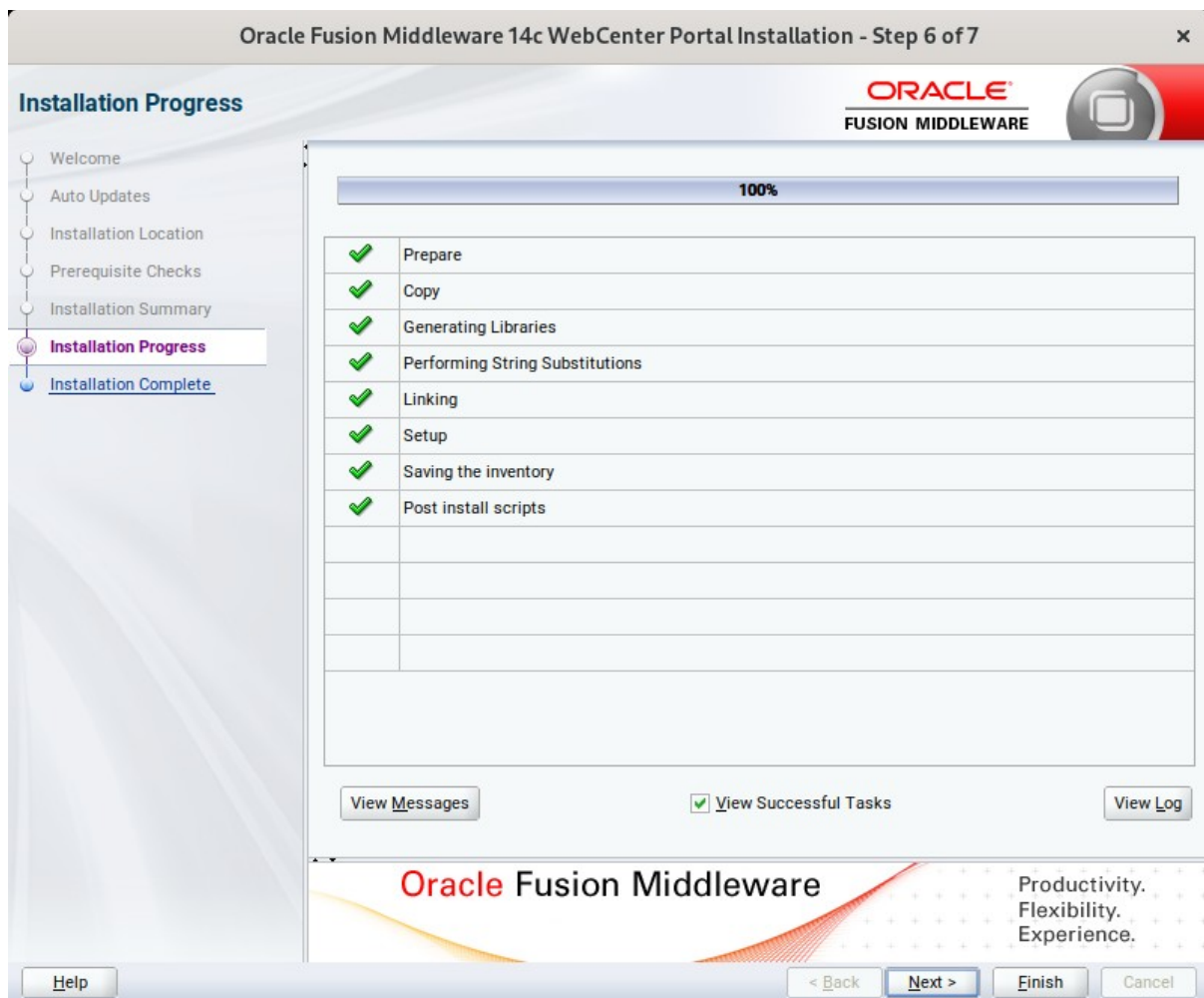
libaio1-0.3.109-1.25-x86_64
libaio1-32bit-0.3.109-1.25-x86_64
libaio-devel-32bit-0.3.109-1.25-x86_64
libaio-devel-0.3.109-1.25-x86_64
libcap2-2.63-150400.3.3.1-x86_64
libcap-ng0-0.7.9-4.37-x86_64
libcap2-32bit-2.63-150400.3.3.1-x86_64
libstdc++6-13.2.1+git8285-150000.1.9.1-x86_64
libstdc++6-devel-gcc7-7.5.0+r278197-150000.4.41.1-x86_64
libstdc++6-32bit-13.2.1+git8285-150000.1.9.1-x86_64
libstdc++6-devel-gcc7-32bit-7.5.0+r278197-150000.4.41.1-x86_64
libstdc++6-locale-13.2.1+git8285-150000.1.9.1-x86_64
libstdc++-devel-7-3.9.1-x86_64
libgcc_s1-13.2.1+git8285-150000.1.9.1-x86_64
libgcc_s1-32bit-13.2.1+git8285-150000.1.9.1-x86_64
make-4.2.1-7.3.2-x86_64
make-lang-4.2.1-7.3.2-noarch
makedumpfile-1.7.4-150600.1.3-x86_64
xorg-x11-7.6_1-1.22-noarch
xorg-x11-server-21.1.11-150600.3.2-x86_64
xorg-x11-fonts-7.6-13.6.1-noarch
xorg-x11-driver-video-7.6_1-9.10-x86_64
xorg-x11-Xvnc-1.13.1-150600.2.6-x86_64
xorg-x11-fonts-core-7.6-13.6.1-noarch
xorg-x11-server-extra-21.1.11-150600.3.2-x86_64
xorg-x11-essentials-7.6_1-1.22-noarch
)

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



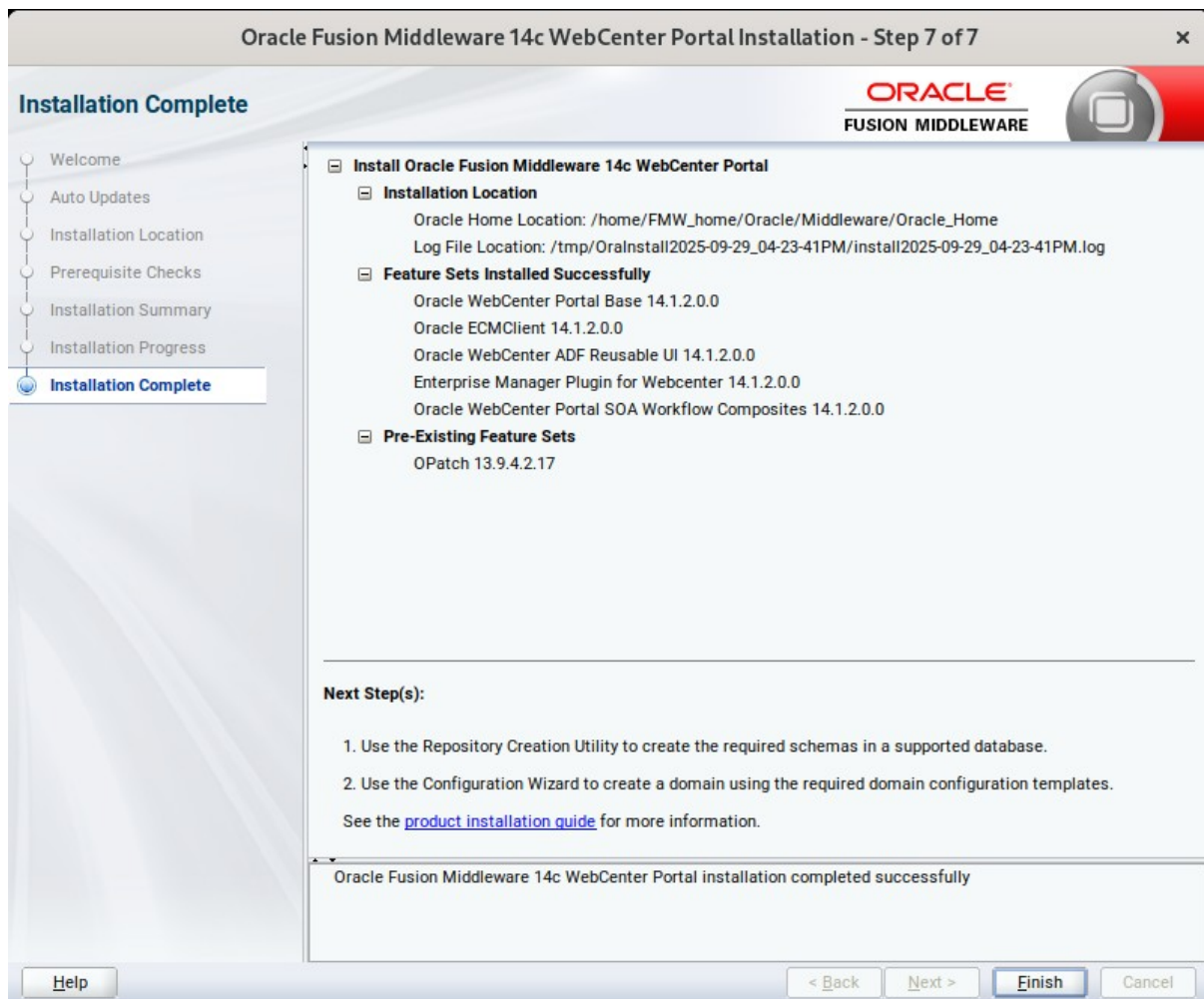
This page shows you what components and features are about to be installed. If you need to make changes, click **Back**, otherwise, click **Install** to start the installation.

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.



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 Fusion Middleware Infrastructure distribution. Run **\$FMW_HOME/oracle_common/bin/rcu** and create required database schemas for Oracle Oracle WebCenter Portal.

Screenshot: Database schemas creating for Oracle WebCenter Portal.

Repository Creation Utility - Step 4 of 8

Repository Creation Utility

Specify a unique prefix for all schemas created in this session, so you can easily locate, reference, and manage the schemas later.

Edition Name:

☐ Select existing prefix:

☒ Create new prefix:

Alpha numeric only. Cannot start with a number. No special characters.

Component	Schema Owner
<input type="checkbox"/> Oracle AS Repository Components	
<input checked="" type="checkbox"/> AS Common Schemas	
<input checked="" type="checkbox"/> Common Infrastructure Services *	DEV1_STB
<input checked="" type="checkbox"/> Oracle Platform Security Services	DEV1_OPSS
<input type="checkbox"/> User Messaging Service	UMS
<input checked="" type="checkbox"/> Audit Services	DEV1_JAU
<input checked="" type="checkbox"/> Audit Services Append	DEV1_JAU_APPEND
<input checked="" type="checkbox"/> Audit Services Viewer	DEV1_JAU_VIEWER
<input checked="" type="checkbox"/> Metadata Services	DEV1_MDS
<input checked="" type="checkbox"/> Weblogic Services *	DEV1_WLS
<input checked="" type="checkbox"/> WebCenter Portal	
<input checked="" type="checkbox"/> Portal and Services	DEV1_WEBCENTER
<input checked="" type="checkbox"/> Portlet Producers	DEV1_PORTLET
<input checked="" type="checkbox"/> Analytics	DEV1_ACTIVITIES

* Mandatory component. Mandatory components cannot be deselected.

Help < Back Next > Finish Cancel

Select the **Create new prefix** radio button and provide a schema prefix (such as DEV1). Select the components as shown above.

Ensure schema creation is successful.

Repository Creation Utility - Step 9 of 9

Repository Creation Utility

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Database details:

Host Name: c3n1
Port: 1521
Service Name: SLES_PDB
Connected As: sys
Operation: System and Data Load concurrently
Execution Time: 5 minutes 55 seconds

RCU Logfile: /tmp/RCU2025-09-29_16-28_2072463719/logs/rcu.log
Component Log: /tmp/RCU2025-09-29_16-28_2072463719/logs
Directory: View Log: rcu.log

Prefix for (prefixable): DEV1
Schema Owners

Component	Status	Time	Logfile(Click to view)
Common Infrastructure Services	Success	00:14.910(sec)	stb.log
Oracle Platform Security Services	Success	01:30.634(min)	opss.log
Audit Services	Success	00:45.989(sec)	iau.log
Audit Services Append	Success	00:13.352(sec)	iau_append.log
Audit Services Viewer	Success	00:13.528(sec)	iau_viewer.log
Metadata Services	Success	00:32.278(sec)	mds.log
Weblogic Services	Success	00:34.435(sec)	wls.log
Portal and Services	Success	00:40.314(sec)	webcenter.log
Portlet Producers	Success	00:17.697(sec)	portlet.log
Analytics	Success	00:18.247(sec)	activities.log

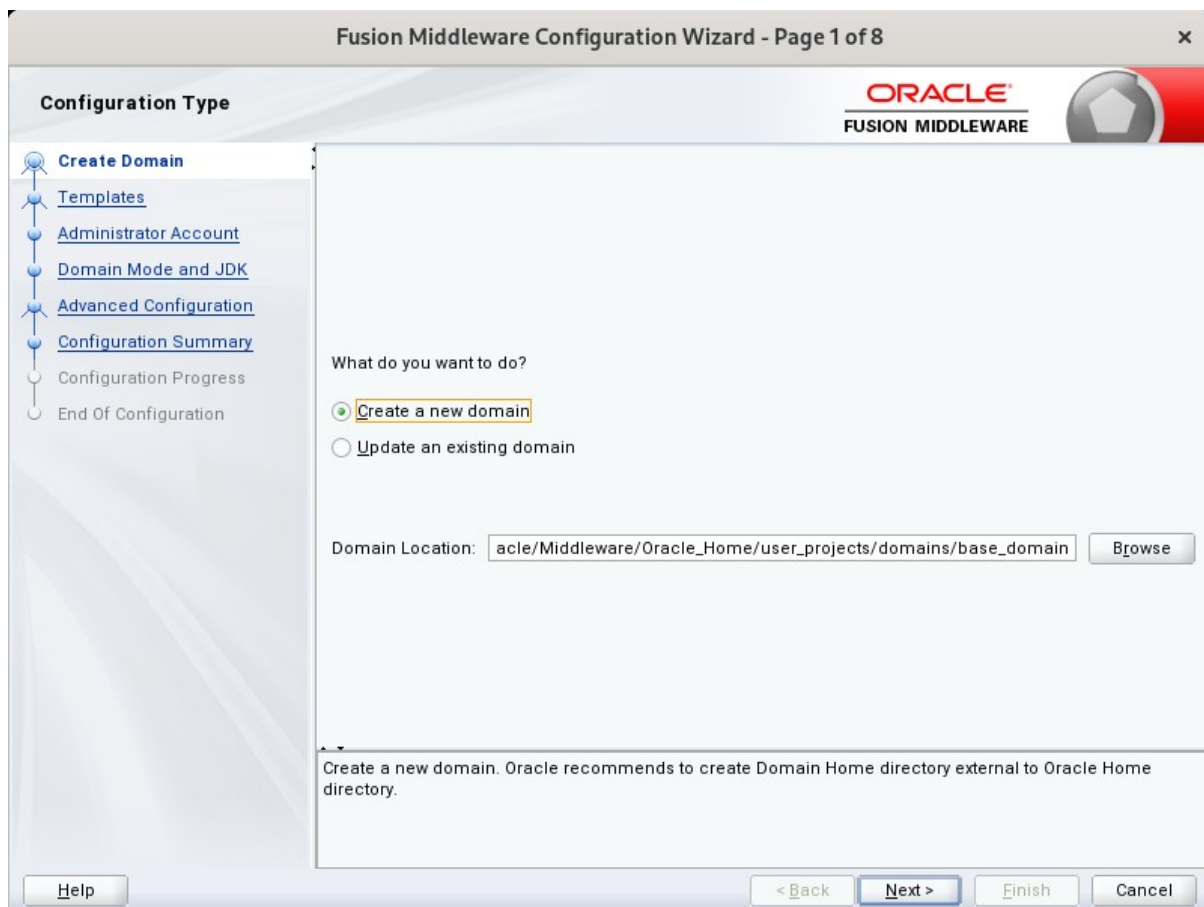
Help < Back Next > Create Close

3. Configuring Oracle WebCenter Portal 14c 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.

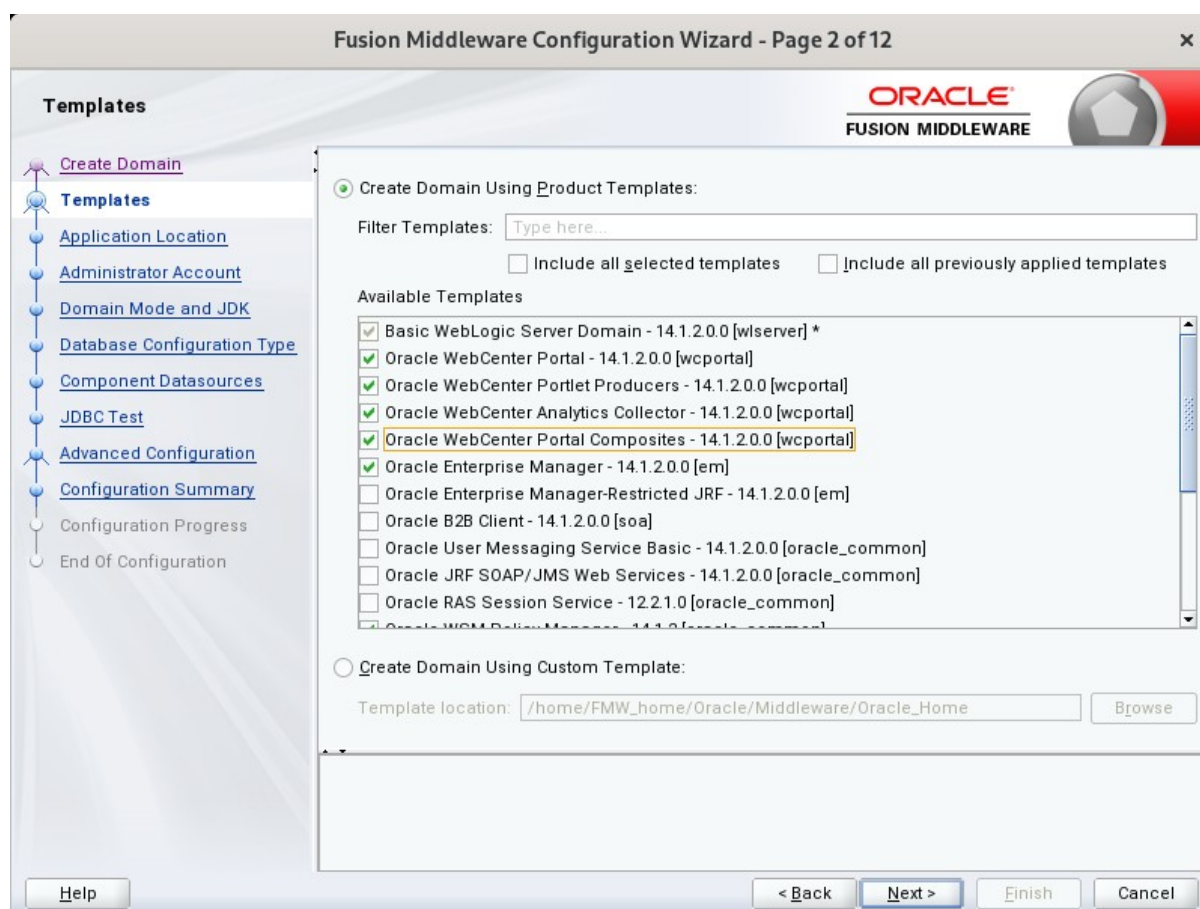
Follow these steps:

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



Click **Next** to continue.

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



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:

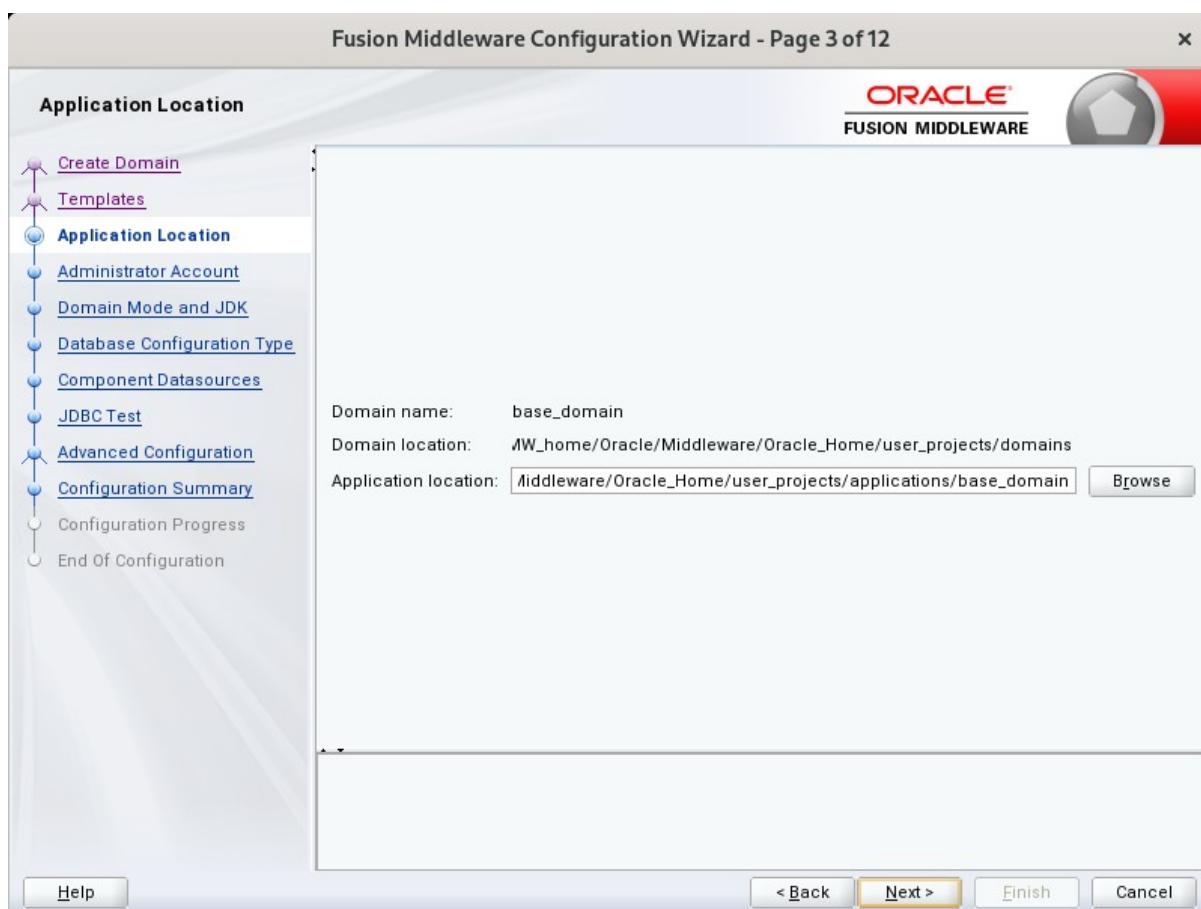
- Oracle WebCenter Portal [wcportal]

Selecting this template automatically selects the following as dependencies:

- Oracle Enterprise Manager
- Oracle WSM Policy Manager
- Oracle JRF
- WebLogic Coherence Cluster Extension
- Oracle WebCenter Pagelet Producer [wcportal]
- Oracle WebCenter Portlet Producers [wcportal]
- Oracle WebCenter Analytics Collector [wcportal]

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.

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



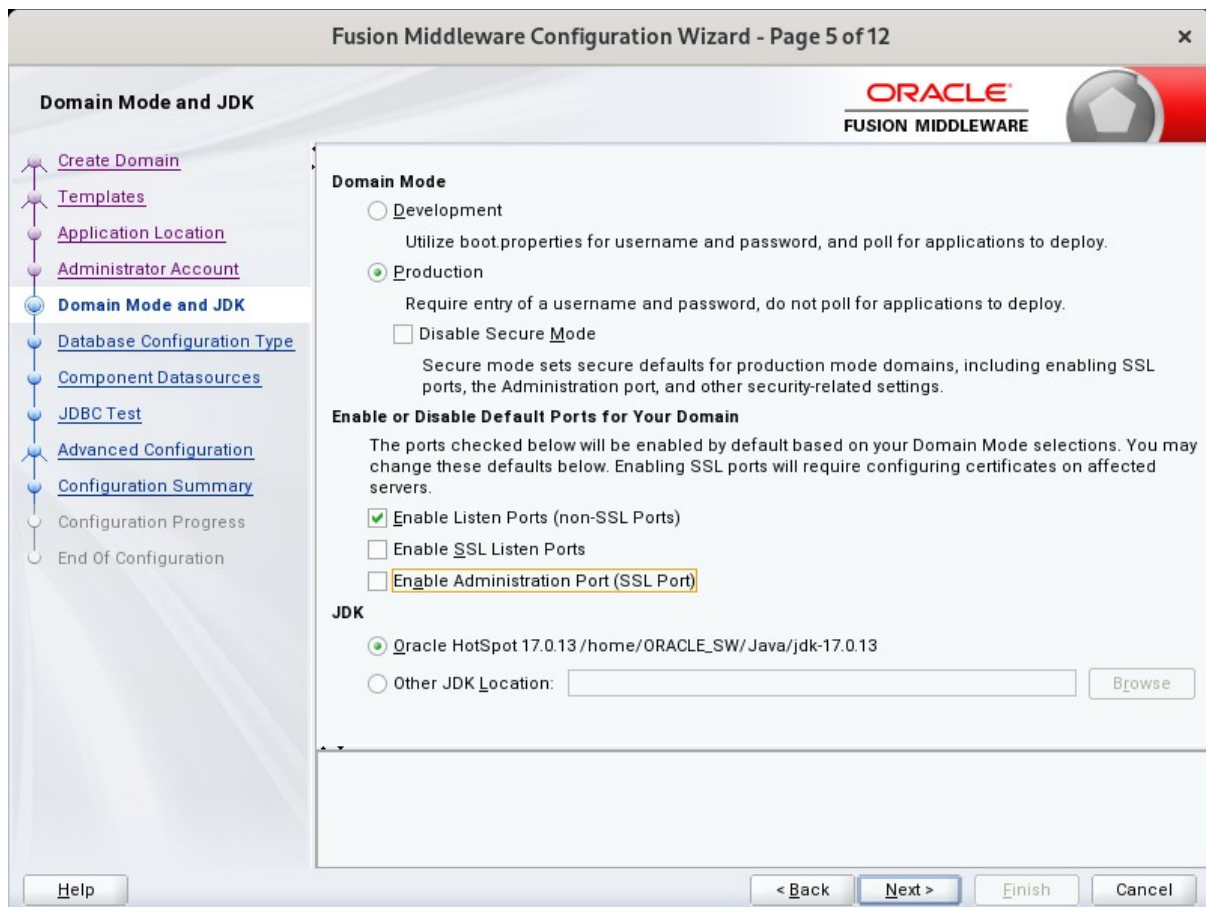
Keep the default value for Application location. Click **Next** to continue.

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

The screenshot shows the 'Administrator Account' screen in the Fusion Middleware Configuration Wizard. The title bar reads 'Fusion Middleware Configuration Wizard - Page 4 of 12'. The Oracle logo and 'FUSION MIDDLEWARE' text are in the top right. A sidebar on the left lists the configuration steps: 'Create Domain', 'Templates', 'Application Location', 'Administrator Account' (selected), 'Domain Mode and JDK', 'Database Configuration Type', 'Component Datasources', 'JDBC Test', 'Advanced Configuration', 'Configuration Summary', 'Configuration Progress', and 'End Of Configuration'. The main area contains three input fields: 'Name' with the value 'weblogic', 'Password' with masked characters, and 'Confirm Password' with masked characters. A note at the bottom states: 'Must be the same as the password. Password must contain at least 8 alphanumeric characters with at least one number or special character.' At the bottom are buttons for 'Help', '< Back', 'Next >', 'Finish', and 'Cancel'.

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

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



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.

(Note: Installation can only be secured with Identity Management if configuring components in deployment mode.)

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

The screenshot shows the 'Database Configuration Type' screen in the Fusion Middleware Configuration Wizard. The title bar indicates 'Fusion Middleware Configuration Wizard - Page 6 of 12'. The Oracle logo and 'FUSION MIDDLEWARE' text are in the top right. A sidebar on the left lists the configuration steps: Create Domain, Templates, Application Location, Administrator Account, Domain Mode and JDK, Database Configuration Type (selected), Component Datasources, JDBC Test, Advanced Configuration, Configuration Summary, Configuration Progress, and End Of Configuration. The main area is titled 'Specify AutoConfiguration Options Using:' and has two radio buttons: 'RCU Data' (selected) and 'Manual Configuration'. Below this, a text box explains that the wizard uses schema credentials to configure datasources. The 'Vendor' is set to 'Oracle' and the 'Driver' is '*Oracle's Driver (Thin) for Service connections; Versi...'. There are two radio buttons for 'Connection Parameters' (selected) and 'Connection URL String'. The 'Host Name' is 'c3n1', 'DBMS/Service' is 'sles_pdb', 'Port' is '1521', 'Schema Owner' is 'DEV1_STB', and 'Schema Password' is masked with dots. There are 'Get RCU Configuration' and 'Cancel' buttons. A 'Connection Result Log' section shows the following messages: 'Connecting to the database server...OK', 'Retrieving schema data from database server...OK', 'Binding local schema components with retrieved data...OK', and 'Successfully Done.'. At the bottom, it says 'Click 'Next' button to continue.' and there are '< Back', 'Next >', 'Finish', and 'Cancel' buttons.

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

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

Fusion Middleware Configuration Wizard - Page 7 of 12

JDBC Component Schema

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Vendor: Driver:

☐ Connection Parameters ☒ Connection URL String

URL: [Connection Properties](#)

Schema Owner: Schema Password:

Oracle RAC configuration for component schemas:

☐ Convert to GridLink ☐ Convert to RAC multi data source ☐ Don't convert

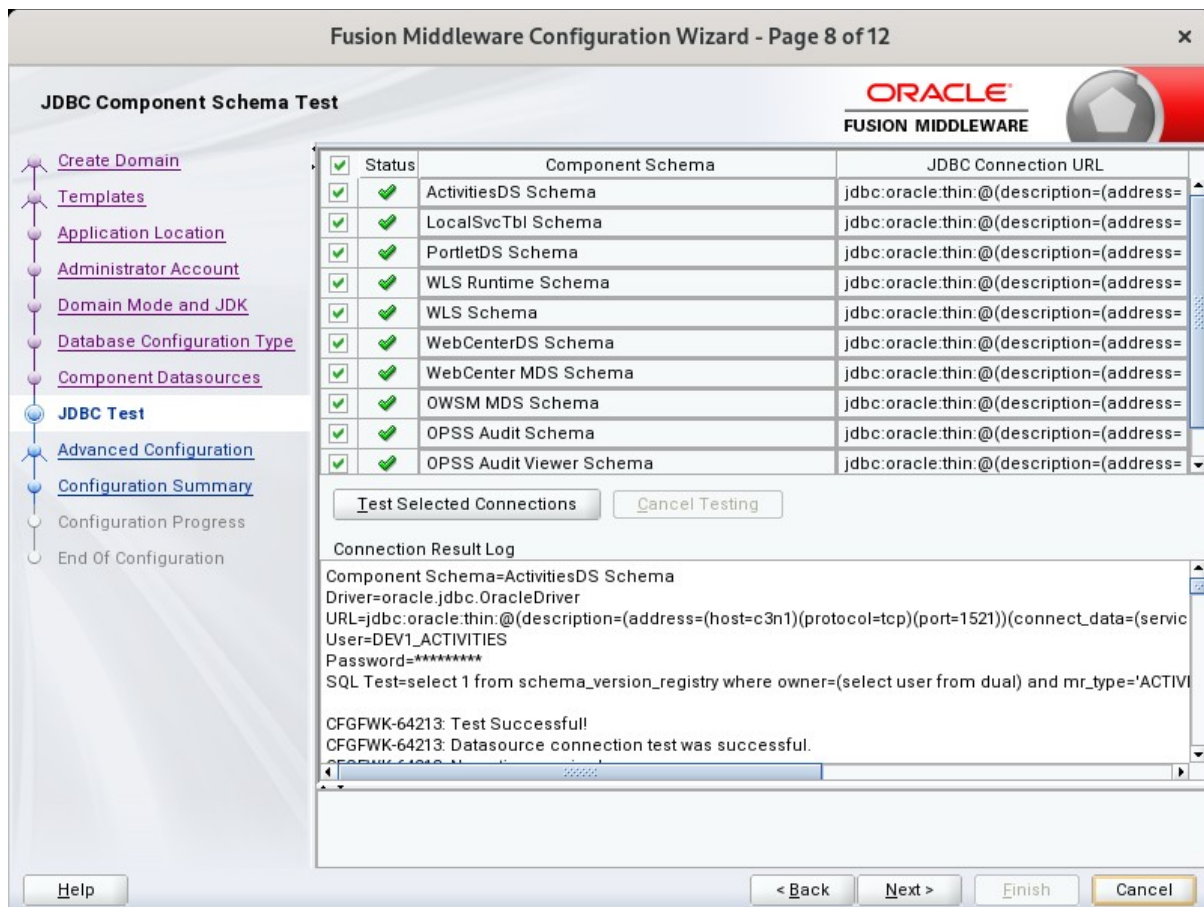
Edits to the data above will affect all checked rows in the table below.

<input type="checkbox"/> Component Schema	URL	Schema Owner	Schema Password
<input type="checkbox"/> ActivitiesDS Schema	jdbc:oracle:thin:@(description=(addre	DEV1_ACTIVITIE	.....
<input type="checkbox"/> LocalSvcTbl Schema	jdbc:oracle:thin:@(description=(addre	DEV1_STB	.....
<input type="checkbox"/> PortletDS Schema	jdbc:oracle:thin:@(description=(addre	DEV1_PORTLET	.....
<input type="checkbox"/> WLS Runtime Schema	jdbc:oracle:thin:@(description=(addre	DEV1_WLS_RUN	.....
<input type="checkbox"/> WLS Schema	jdbc:oracle:thin:@(description=(addre	DEV1_WLS	.....
<input type="checkbox"/> WebCenterDS Schema	jdbc:oracle:thin:@(description=(addre	DEV1_WEBCENT	.....
<input type="checkbox"/> WebCenter MDS Schen	jdbc:oracle:thin:@(description=(addre	DEV1_MDS	.....
<input type="checkbox"/> OWSM MDS Schema	jdbc:oracle:thin:@(description=(addre	DEV1_MDS	.....

Help

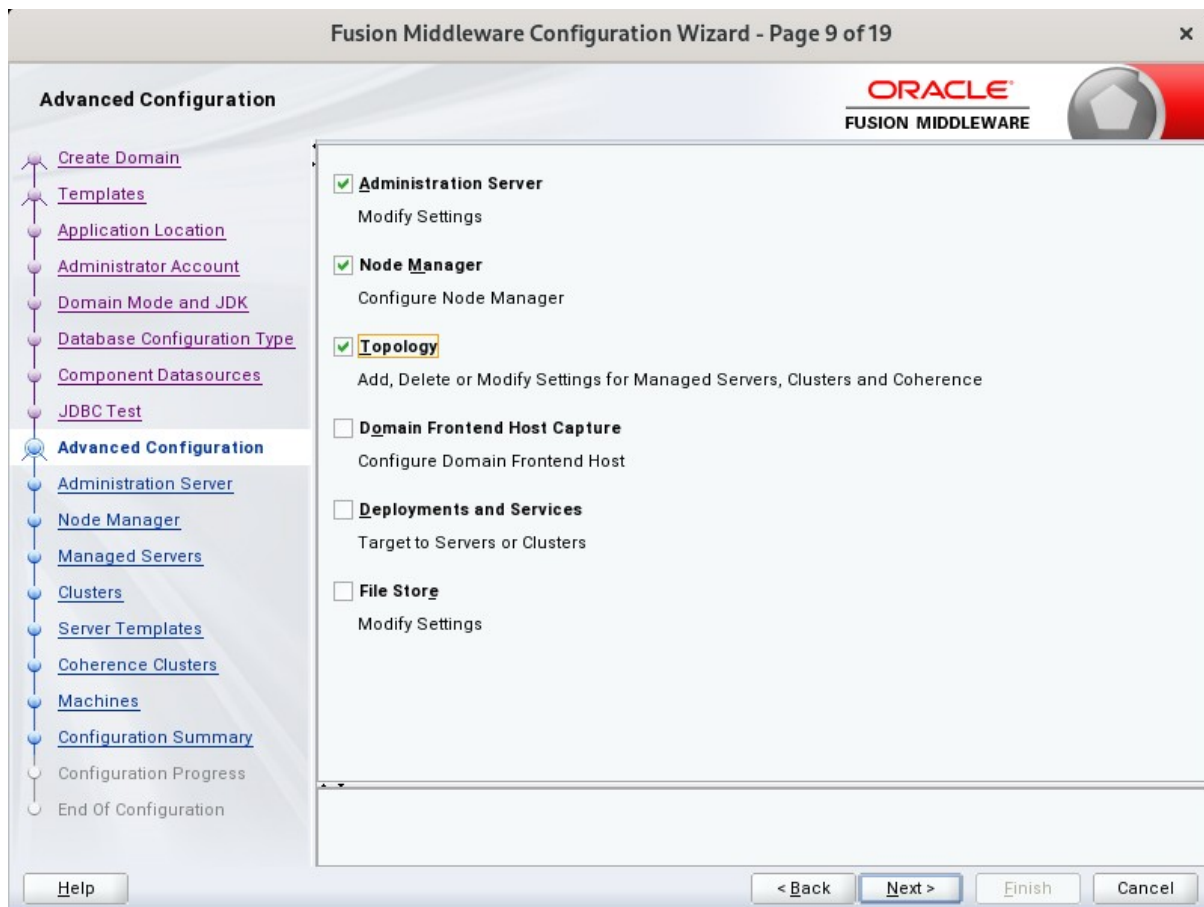
Our instructions assume each Repository schema uses the same password. If not, enter the correct schema passwords. Click **Next** to continue.

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



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

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



On the Advanced Configuration screen, select:

- Administration Server
- Node Manager
- Topology

Then, click **Next** to continue.

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

The screenshot shows the 'Administration Server' configuration screen in the Fusion Middleware Configuration Wizard. The window title is 'Fusion Middleware Configuration Wizard - Page 10 of 19'. The Oracle logo and 'FUSION MIDDLEWARE' text are in the top right corner. On the left, a navigation pane lists various steps: 'Create Domain', 'Templates', 'Application Location', 'Administrator Account', 'Domain Mode and JDK', 'Database Configuration Type', 'Component Datasources', 'JDBC Test', 'Advanced Configuration', 'Administration Server' (selected), 'Node Manager', 'Managed Servers', 'Clusters', 'Server Templates', 'Coherence Clusters', 'Machines', 'Configuration Summary', 'Configuration Progress', and 'End Of Configuration'. The main area contains the following fields and options:

- Server Name:** AdminServer
- Listen Address:** All Local Addresses (dropdown menu)
- Configure Administration Server Ports:**
 - ☒ Enable Listen Port (Listen Port: 7001)
 - ☐ Enable SSL Listen Port (SSL Listen Port: 7002)
 - Administration Port: 9002
- Server Groups:** Unspecified (dropdown menu)

At the bottom, there are buttons for '< Back', 'Next >', 'Finish', and 'Cancel'. A 'Help' button is located in the bottom left corner of the main area.

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

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

The screenshot shows the 'Node Manager' configuration screen in the Fusion Middleware Configuration Wizard. The left sidebar contains a tree of configuration steps, with 'Node Manager' selected. The main area is divided into two sections: 'Node Manager Topology' and 'Node Manager Credentials'. In the 'Node Manager Topology' section, the 'Per Domain Default Location' radio button is selected. Below it, the 'Node Manager Home' text field contains the path '%_Home/user_projects/domains/base_domain/nodemanager', followed by a 'Browse' button. The 'Manual Node Manager Setup' radio button is unselected. In the 'Node Manager Credentials' section, there are three text fields: 'Username' with the value 'weblogic', 'Password' with masked characters '*****', and 'Confirm Password' also with masked characters '*****'. A note at the bottom of the main area states: 'Must be the same as the password. Password must contain at least 8 alphanumeric characters with at least one number or special character.' The bottom of the window features a 'Help' button on the left and '< Back', 'Next >', 'Finish', and 'Cancel' buttons on the right.

Fusion Middleware Configuration Wizard - Page 11 of 19

Node Manager

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Node Manager Topology

☒ Per Domain Default Location

☐ Per Domain Custom Location

Node Manager Home: %_Home/user_projects/domains/base_domain/nodemanager

☐ Manual Node Manager Setup

Node Manager Credentials

Username: weblogic

Password: *****

Confirm Password: *****

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

Help < Back Next > Finish Cancel

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

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

Fusion Middleware Configuration Wizard - Page 12 of 19

Managed Servers

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FUSION MIDDLEWARE

+ Add Clone X Delete Discard Changes

Server Name	Listen Address	Enable Listen	Listen Port	Enable SSL Port	SSL Listen Port	Administration Port	Server Groups
WC_Portlet	10.200.176.11	<input checked="" type="checkbox"/>	8889	<input type="checkbox"/>	Disabled	Disabled	WebC...
WC_Portal	10.200.176.11	<input checked="" type="checkbox"/>	8888	<input type="checkbox"/>	Disabled	Disabled	WebC...

Help < Back Next > Finish Cancel

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

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

The screenshot shows the 'Clusters' screen in the Fusion Middleware Configuration Wizard. The left sidebar contains a tree view with the following items: 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** (selected), Server Templates, Dynamic Servers, Assign Servers to Clusters, Coherence Clusters, Machines, Configuration Summary, and Configuration Progress. The main area displays a table with the following data:

Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS
wcp_cluster_1			0	0
wcp_cluster_2			0	0

Buttons at the top include '+ Add', 'X Delete', and 'Discard Changes'. Navigation buttons at the bottom include '< Back', 'Next >', 'Finish', and 'Cancel'. A 'Help' button is located in the bottom left corner.

On the Clusters screen:

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

Click **Next** to continue.

14). The **Server templates** screen appears.

Fusion Middleware Configuration Wizard - Page 14 of 21

Server Templates

ORACLE
FUSION MIDDLEWARE

+ Add X Delete Discard Changes

Name	Enable Listen	Listen Port	Enable SSL	SSL Listen Port	Administration Port
portal-server-template	<input checked="" type="checkbox"/>	7100	<input type="checkbox"/>	Disabled	Disabled
portlet-server-template	<input checked="" type="checkbox"/>	7100	<input type="checkbox"/>	Disabled	Disabled
wsm-cache-server-templ	<input checked="" type="checkbox"/>	7100	<input type="checkbox"/>	Disabled	Disabled
wsmpm-server-template	<input checked="" type="checkbox"/>	7100	<input type="checkbox"/>	Disabled	Disabled

Navigation: 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, Configuration Summary, Configuration Progress

Buttons: Help, < Back, Next >, Finish, Cancel

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

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

Fusion Middleware Configuration Wizard - Page 15 of 21

Dynamic Servers

ORACLE
FUSION MIDDLEWARE

Disgard Changes

Cluster Name	Server Name Prefix	Server Template	Dynamic Cluster Size	Machine Name Match Expression	Calculated Machine Names	Calculated Listen Ports	Dynamic Server Groups
wcp_cluster_1	Disabled	Unspeci...	Disabled	Disabled	<input type="checkbox"/>	<input type="checkbox"/>	Unspeci...
wcp_cluster_2	Disabled	Unspeci...	Disabled	Disabled	<input type="checkbox"/>	<input type="checkbox"/>	Unspeci...

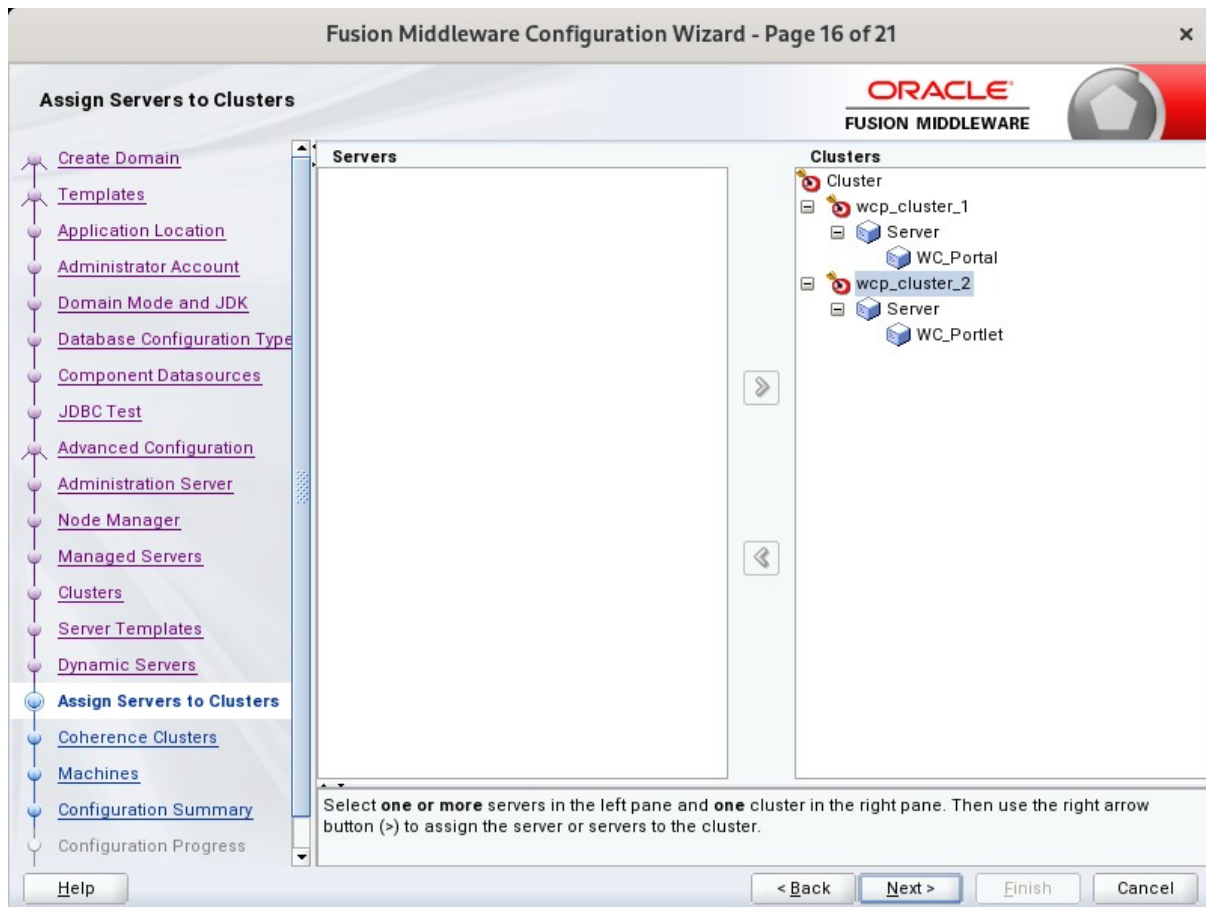
Navigation pane (left):

- 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
- Configuration Summary
- Configuration Progress

Buttons: Help, < Back, Next >, Finish, Cancel

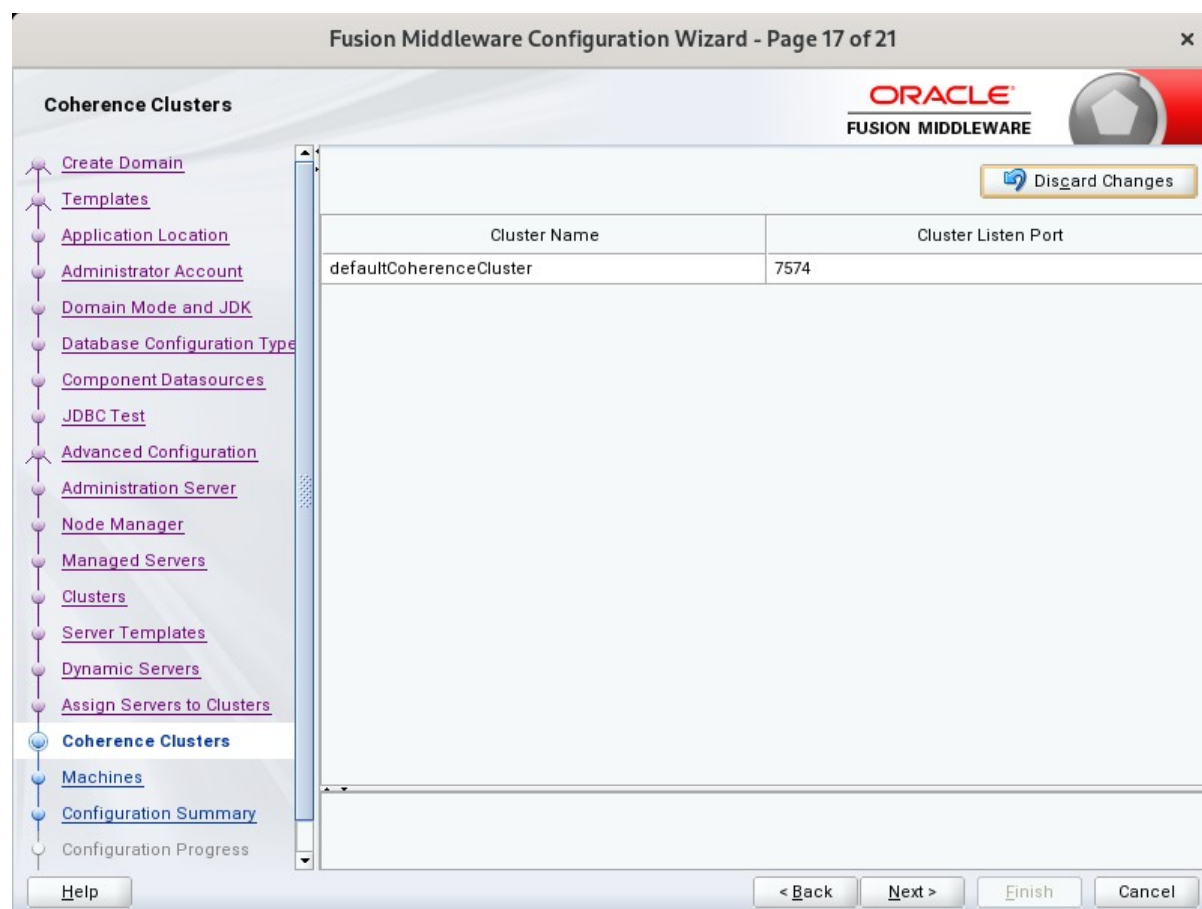
If you are creating dynamic clusters for a high availability setup, use the Dynamic Servers screen to configure the dynamic servers. If you are not configuring a dynamic cluster, click **Next** to continue configuring the domain.

16). The **Assign Servers to Clusters** screen appears.



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.

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



Fusion Middleware Configuration Wizard - Page 17 of 21

Coherence Clusters

ORACLE
FUSION MIDDLEWARE

Disgard Changes

Cluster Name	Cluster Listen Port
defaultCoherenceCluster	7574

Help < Back Next > Finish Cancel

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

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

Fusion Middleware Configuration Wizard - Page 18 of 22

Machines

ORACLE
FUSION MIDDLEWARE

Machine: Unix Machine

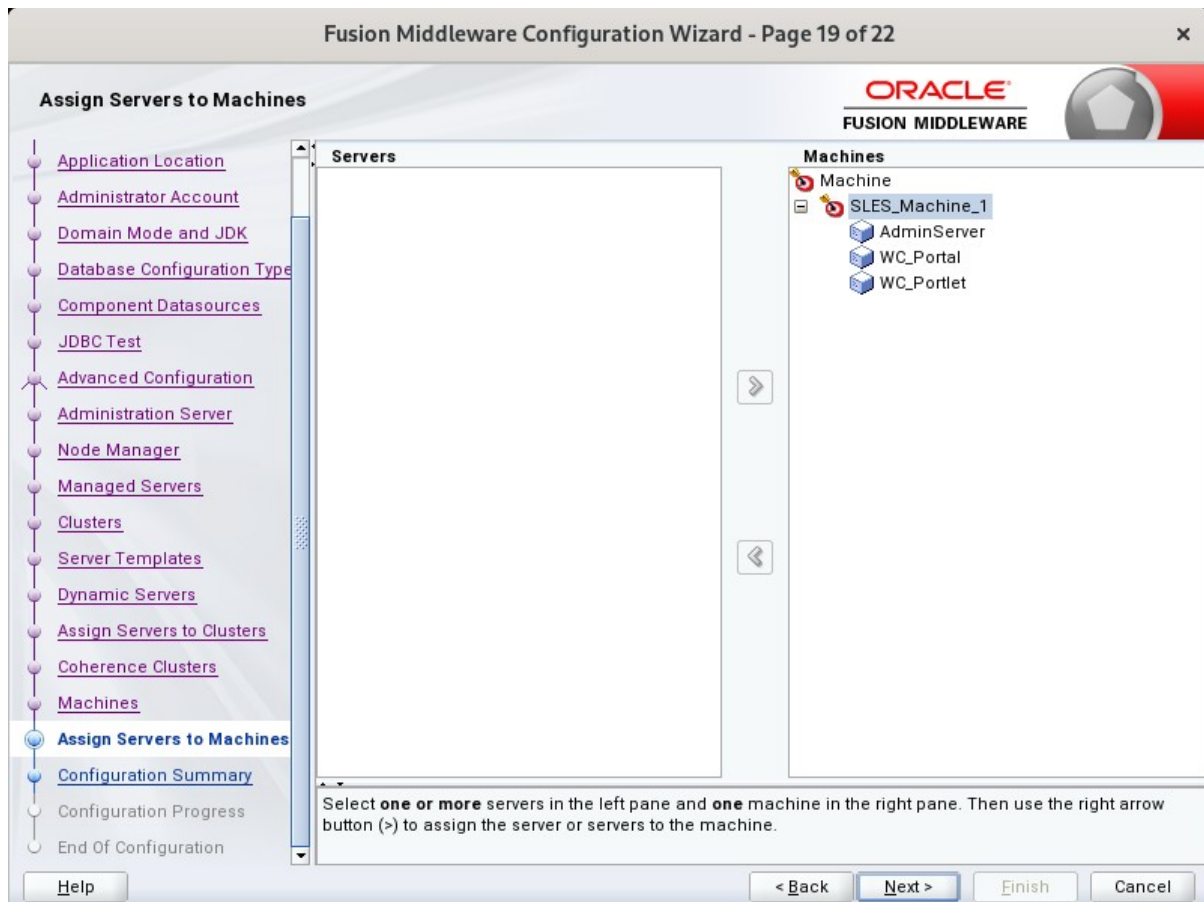
+ Add - Delete Discard Changes

Name	Node Manager Listen Address	Node Manager Type	Node Manager Listen Port
SLES_Machine_1	localhost	SSL	5556

Help < Back Next > Finish Cancel

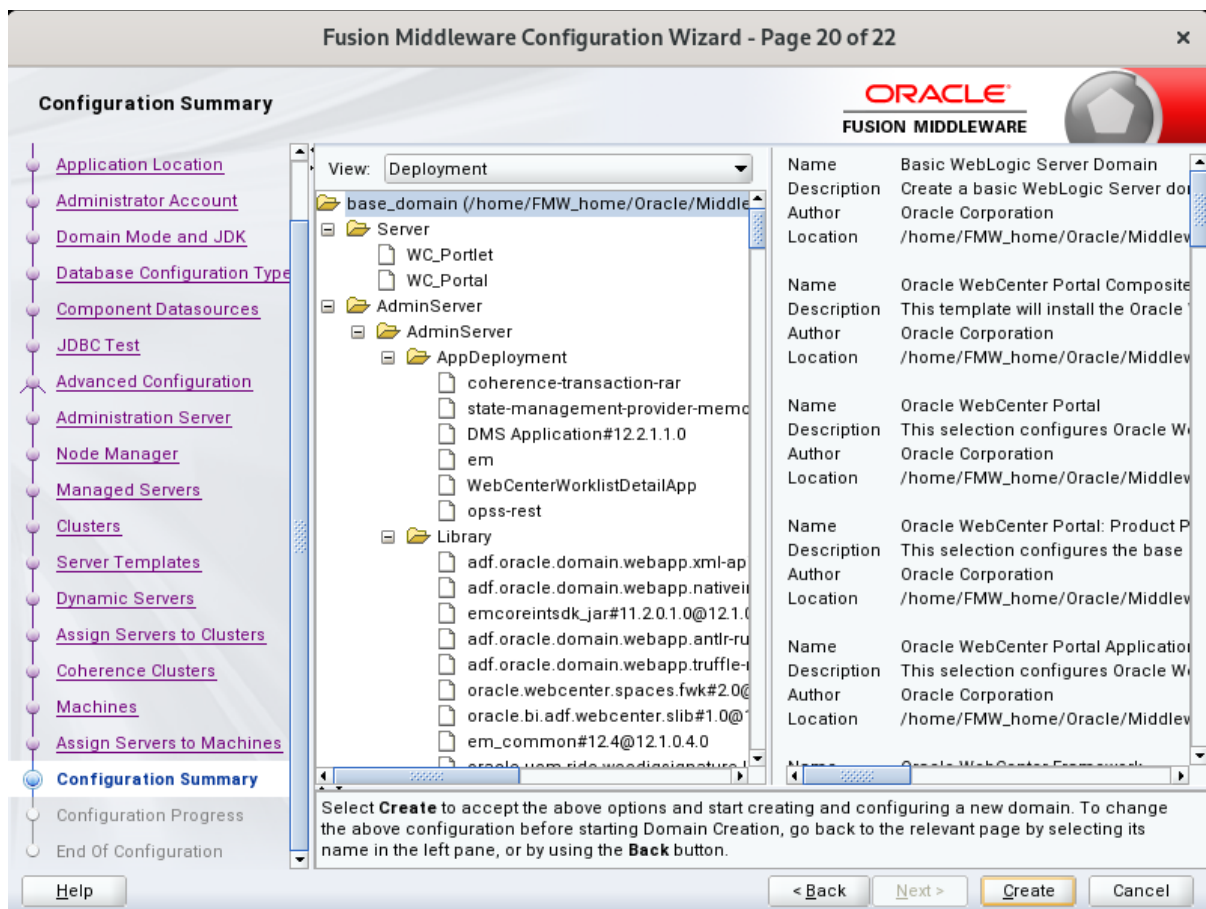
To create a new Oracle WebCenter Portal machine so that Node Manager can start and stop servers. Click **Next** to continue.

19). The **Assign Servers to Machines** screen appears.



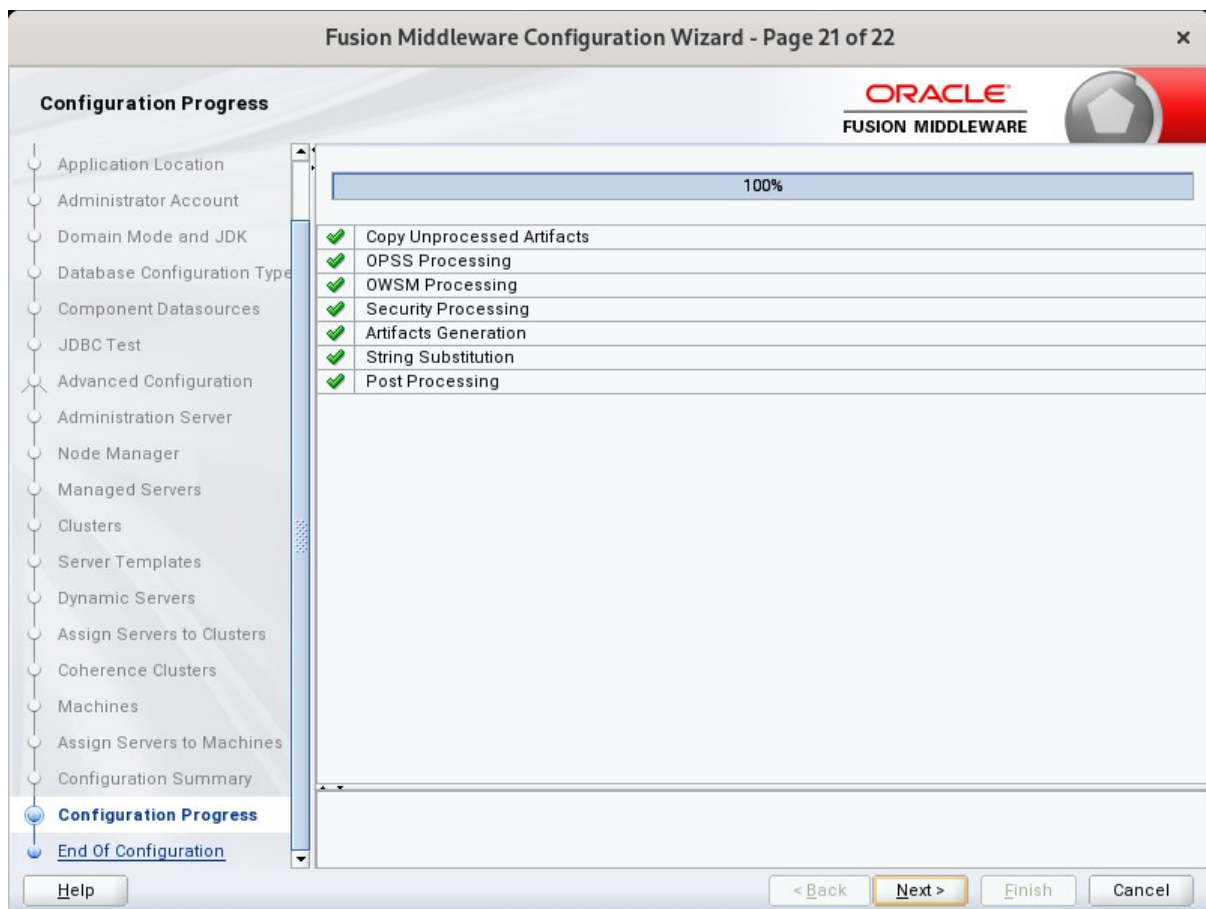
Use the **Assign Servers to Machines** screen to assign the Managed Servers to the new machine you just created. Click **Next** to continue.

20). The **Configuration Summary** screen appears.



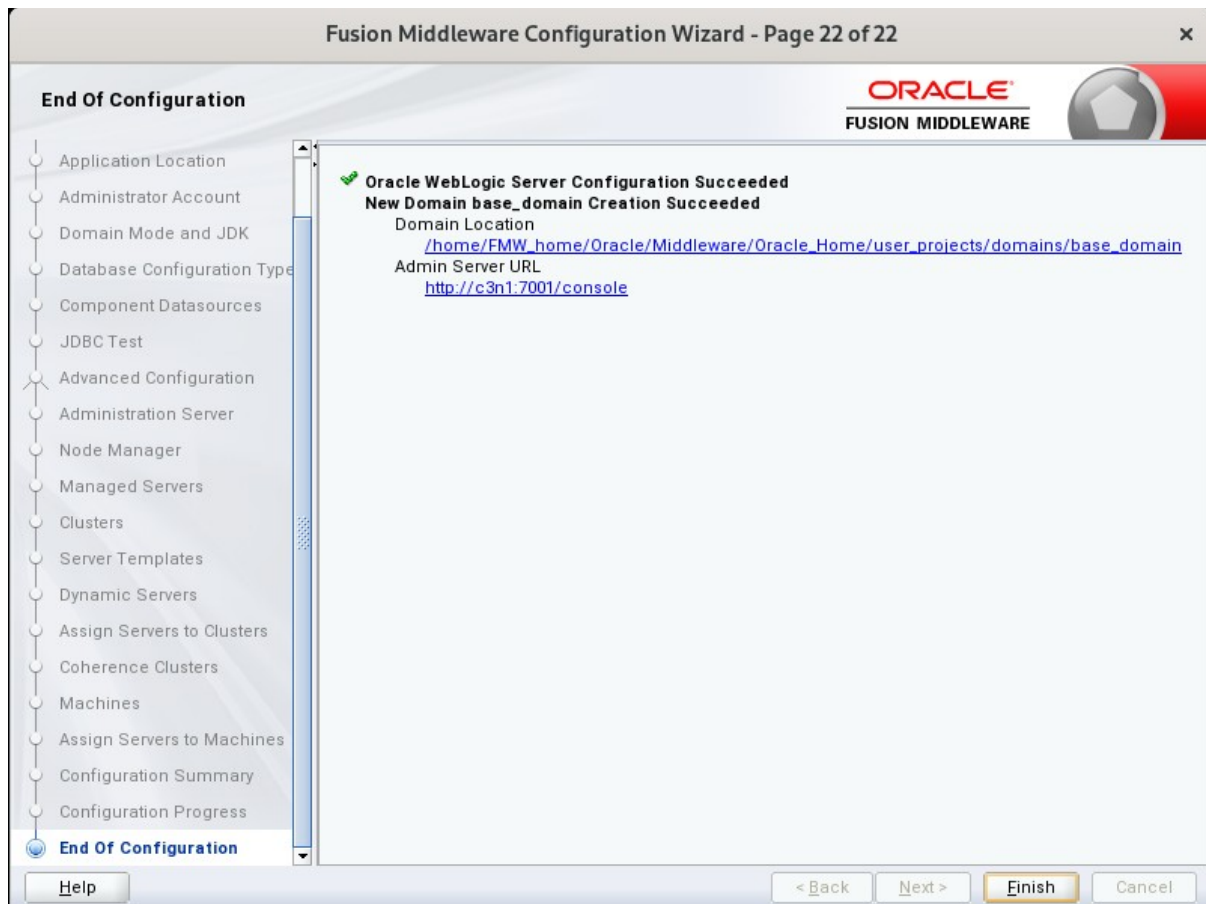
Select **Create** to accept the above options and start creating and configuring a new domain.

21). 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.

22). The **End of Configuration** screen appears.



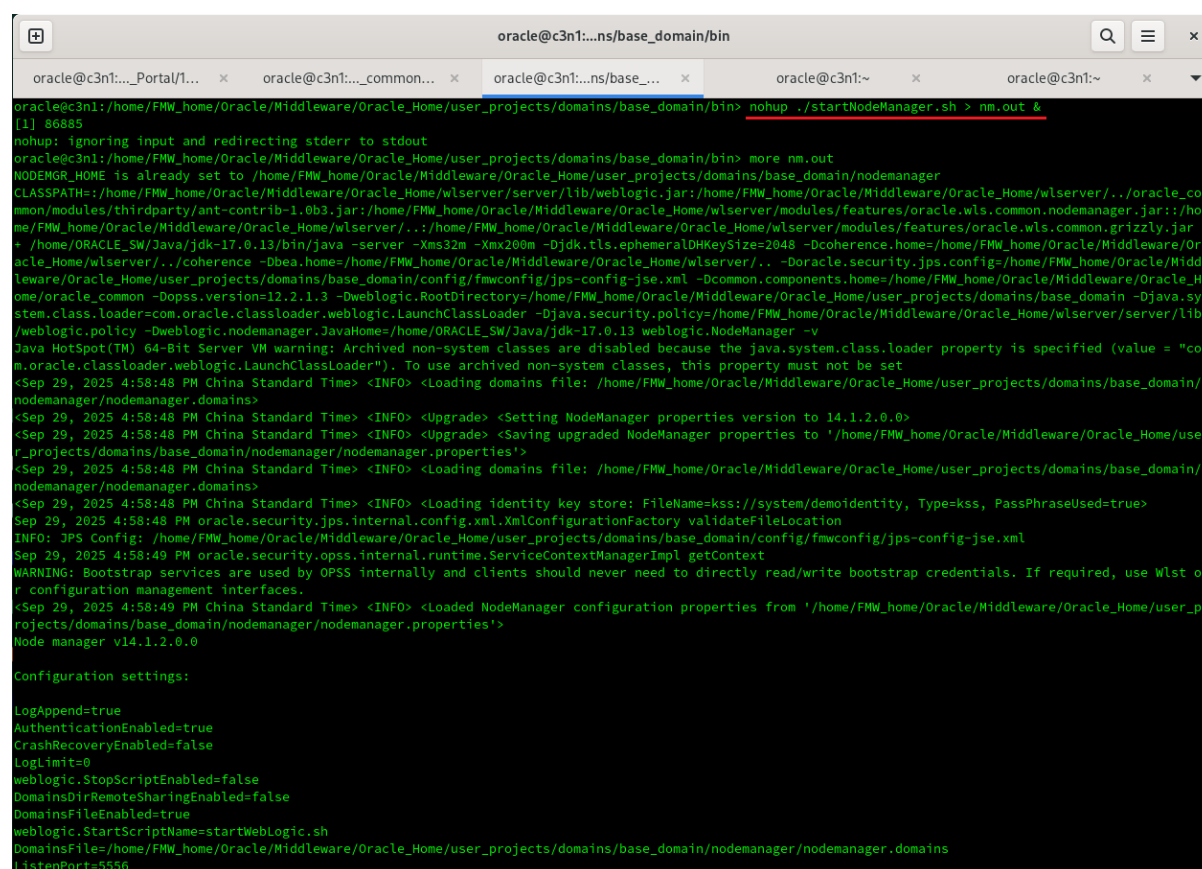
Once you see: "Oracle Weblogic Server Configuration Succeeded", record the '**Domain Location**' and '**Admin Server URL**', then click **Finish** to dismiss the Configuration Wizard.

4. Verifying Oracle WebCenter Portal 14c Installation and Configuration

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

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

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



```

oracle@c3n1:...ns/base_domain/bin
oracle@c3n1:...Portal/1... x oracle@c3n1:...common... x oracle@c3n1:...ns/base_... x oracle@c3n1:~ x oracle@c3n1:~ x
[1] 86885
nohup: ignoring input and redirecting stderr to stdout
oracle@c3n1:/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/bin> more nm.out
NODEMGR_HOME is already set to /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/nodemanager
CLASSPATH=:/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/server/lib/weblogic.jar:/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/.../oracle_co
mon/modules/thirdparty/ant-contrib-1.0b3.jar:/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/modules/features/oracle.wls.common.nodemanager.jar:/ho
me/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/.../home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/modules/features/oracle.wls.common.grizzly.jar
+ /home/ORACLE_SW/Java/jdk-17.0.13/bin/java -server -Xms32m -Xmx200m -Djdk.tls.ephemeralDHKeySize=2048 -Dcoherence.home=/home/FMW_home/Oracle/Middleware/Or
acle_Home/wlserver/.../coherence -Dbea.home=/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/... -Doracle.security.jps.config=/home/FMW_home/Oracle/Midd
leware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/jps-config-jse.xml -Dcommon.components.home=/home/FMW_home/Oracle/Middleware/Oracle_H
ome/oracle_common -Dopss.version=12.1.3 -Dweblogic.RootDirectory=/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain -Djava.sy
stem.class.loader=com.oracle.classloader.weblogic.LaunchClassLoader -Djava.security.policies=/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/server/lib
/weblogic.policy -Dweblogic.nodemanager.JavaHome=/home/ORACLE_SW/Java/jdk-17.0.13 weblogic.NodeManager -v
Java HotSpot(TM) 64-Bit Server VM warning: Archived non-system classes are disabled because the java.system.class.loader property is specified (value = "co
m.oracle.classloader.weblogic.LaunchClassLoader"). To use archived non-system classes, this property must not be set
<Sep 29, 2025 4:58:48 PM China Standard Time> <INFO> <Loading domains file: /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/
nodemanager/nodemanager.domains>
<Sep 29, 2025 4:58:48 PM China Standard Time> <INFO> <Upgrade> <Setting NodeManager properties version to 14.1.2.0.0>
<Sep 29, 2025 4:58:48 PM China Standard Time> <INFO> <Upgrade> <Saving upgraded NodeManager properties to '/home/FMW_home/Oracle/Middleware/Oracle_Home/use
r_projects/domains/base_domain/nodemanager/nodemanager.properties'>
<Sep 29, 2025 4:58:48 PM China Standard Time> <INFO> <Loading domains file: /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/
nodemanager/nodemanager.domains>
<Sep 29, 2025 4:58:48 PM China Standard Time> <INFO> <Loading identity key store: FileName=kss://system/demoidentity, Type=kss, PassPhraseUsed=true>
Sep 29, 2025 4:58:48 PM oracle.security.jps.internal.config.xml.XmlConfigurationFactory validateFileLocation
INFO: JPS Config: /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/jps-config-jse.xml
Sep 29, 2025 4:58:49 PM oracle.security.opss.internal.runtime.ServiceContextManagerImpl getContext
WARNING: Bootstrap services are used by OPSS internally and clients should never need to directly read/write bootstrap credentials. If required, use Wlst o
r configuration management interfaces.
<Sep 29, 2025 4:58:49 PM China Standard Time> <INFO> <Loaded NodeManager configuration properties from '/home/FMW_home/Oracle/Middleware/Oracle_Home/user_p
rojects/domains/base_domain/nodemanager/nodemanager.properties'>
Node manager v14.1.2.0.0

Configuration settings:
LogAppend=true
AuthenticationEnabled=true
CrashRecoveryEnabled=false
LogLimit=0
weblogic.StopScriptEnabled=false
DomainsDirRemoteSharingEnabled=false
DomainsFileEnabled=true
weblogic.StartScriptName=startWebLogic.sh
DomainsFile=/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/nodemanager/nodemanager.domains
ListenPort=5556
  
```

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

```

at weblogic.work.SelfTuningWorkManagerImpl$WorkAdapterImpl.run(SelfTuningWorkManagerImpl.java:691)
at weblogic.work.LivePartitionUtility.doRunWorkUnderContext(LivePartitionUtility.java:58)
at weblogic.work.PartitionUtility.runWorkUnderContext(PartitionUtility.java:41)
at weblogic.work.SelfTuningWorkManagerImpl.runWorkUnderContext(SelfTuningWorkManagerImpl.java:665)
at weblogic.work.ExecuteThread.execute(ExecuteThread.java:430)
at weblogic.work.ExecuteThread.run(ExecuteThread.java:370)

----- END CALLBACK DUMP -----

at weblogic.application.internal.DeploymentStateChecker.throwAssertion(DeploymentStateChecker.java:88)
at weblogic.application.internal.DeploymentStateChecker.illegal(DeploymentStateChecker.java:107)
at weblogic.application.internal.DeploymentStateChecker.up(DeploymentStateChecker.java:122)
at weblogic.application.internal.DeploymentStateChecker.adminToProduction(DeploymentStateChecker.java:173)
at weblogic.deploy.internal.targetserver.AppContainerInvoker.adminToProduction(AppContainerInvoker.java:233)
Truncated.
>
<Sep 29, 2025, 5:01:44,988 PM China Standard Time> <Warning> <Server> <BEA-002611> <The hostname "localhost", maps to multiple IP addresses: 127.0.0.1, 0:0:0:0:0:0:0:1.>
<Sep 29, 2025, 5:01:44,990 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default[4]" is now listening on 127.0.0.1:7001 for protocols iiop, t3, ldap, snmp, http.>
<Sep 29, 2025, 5:01:44,990 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default[1]" is now listening on 192.168.3.1:7001 for protocols iiop, t3, ldap, snmp, http.>
<Sep 29, 2025, 5:01:44,991 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default[2]" is now listening on 10.200.176.15:7001 for protocols iiop, t3, ldap, snmp, http.>
<Sep 29, 2025, 5:01:44,992 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default" is now listening on 10.200.176.11:7001 for protocols iiop, t3, ldap, snmp, http.>
<Sep 29, 2025, 5:01:44,992 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default[3]" is now listening on 0:0:0:0:0:0:1%lo:7001 for protocols iiop, t3, ldap, snmp, http.>
<Sep 29, 2025, 5:01:44,992 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000398> <Secure mode enabled for WebLogic Server "AdminServer".>
<Sep 29, 2025, 5:01:44,993 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000329> <Started the WebLogic Server Administration Server "AdminServer" for domain "base_domain" running in production mode.>
<Sep 29, 2025, 5:01:45,007 PM China Standard Time> <Warning> <Security> <BEA-090985> <Production Mode is enabled but the file or directory /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/bin/nm.out is insecure since its permission is not a minimum of umask 027. SOLUTION: Change the file or directory permission to at most allow only write by owner, read by group.>
<Sep 29, 2025, 5:01:45,013 PM China Standard Time> <Warning> <Security> <BEA-090983> <Secure Mode is enabled but the administration port is not enabled. SOLUTION: Enable the administration port.>
<Sep 29, 2025, 5:01:45,014 PM China Standard Time> <Warning> <Security> <BEA-091033> <No dedicated network channel configured for HTTPS traffic. SOLUTION: Oracle recommends creating a network channel for only HTTPS traffic for externally available applications. Configure your firewall so that the network channel is available externally, and that the default network channel and other customer internal channels are only accessible internally.>
<Sep 29, 2025, 5:01:45,027 PM China Standard Time> <Warning> <Security> <BEA-091003> <Secure Mode requires that users in the Administrators group do not have obvious user names. SOLUTION: Change the user name "weblogic" so it is not a commonly used administrator name.>
<Sep 29, 2025, 5:01:45,234 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000360> <The server started in RUNNING mode.>
<Sep 29, 2025, 5:01:45,239 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to RUNNING.>

```

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

The server started in RUNNING mode.

4-3. Checking Oracle WebCenter Product URLs.

1). Access to Enterprise Manager Console.

Login Page:

Sign in - Oracle Enterprise M x +

http://c3n1:7001/em/faces/targetauth/emasLogin?target=%2FDomain_base_domain%2Fbase_domain&typ

SIGN IN TO
ORACLE ENTERPRISE MANAGER
FUSION MIDDLEWARE CONTROL 14.1.2

Domain Domain_base_domain

* User Name weblogic

* Password *****

Sign in

ORACLE

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Home Page:

base_domain (Oracle WebLo x +

http://c3n1:7001/em/faces/as-weblogic-webLogicDomainHome?type=weblogic_domain&target=/Domain_base

ORACLE Enterprise Manager Fusion Middleware Control 14.1.2

WebLogic Domain weblogic

base_domain

WebLogic Domain

Sep 29, 2025, 5:03:36 PM CST

Information

Certain functionality on this page is available only when you own the edit session lock. To obtain the lock, click "Lock and Edit" in the Change Center menu.

Servers

2 Down
1 Up

Clusters

2 Unknown

Deployments

5 Down
2 Up

Administration Server

Name AdminServer

Host c3n1.oraclelab.bej.suse.com

Listen Port 7001

Servers

Name	Status	Cluster	Machine	State	Health	Listen Port	CPU Usage (%)
AdminServer(admin)	Up	wcp_cluster_1	SLES_Machine_1	Running	OK	7001	0.00
WC_Portlet	Down	wcp_cluster_2	SLES_Machine_1	Shutdown	Unknown	8888	Unavailable
WC_Portlet	Down	wcp_cluster_2	SLES_Machine_1	Shutdown	Unknown	8889	Unavailable

Columns Hidden 34

Servers 3 of 3

Starting the Oracle WebCenter Portal Managed Servers:

The screenshot shows the Oracle Enterprise Manager Fusion Middleware Control interface. The main content area displays the 'Administration Server' details for the 'base_domain' WebLogic Domain. Below this, a table lists the managed servers. The left sidebar provides a summary of the domain's status.

Administration Server Details:

- Name: AdminServer
- Host: c3n1.oraclelab.bej.suse.com
- Listen Port: 7001

Managed Servers Table:

Name	Status	Cluster	Machine	State	Health	Listen Port	CPU Usage (%)
AdminServer(admin)	Running		SLES_Machine_1	Running	OK	7001	0.00
WC_Portal	Shutdown	wcp_cluster_1	SLES_Machine_1	Shutdown	Unknown	8888	Unavailable
WC_Portlet	Shutdown	wcp_cluster_2	SLES_Machine_1	Shutdown	Unknown	8889	Unavailable

Summary Statistics (Left Sidebar):

- Servers:** 2 Down, 1 Up
- Clusters:** 2 Unknown
- Deployments:** 5 Down, 2 Up

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.

The screenshot shows the Oracle Enterprise Manager Fusion Middleware Control interface. The left sidebar contains summary cards for Servers (2 Down, 1 Up), Clusters (2 Unknown), and Deployments (5 Down, 2 Up). The main area displays the 'Administration Server' details and a 'Servers' table. The 'Control' menu is open, showing options: Start, Resume, Suspend, Shutdown, and Restart SSL. The 'Start' option is highlighted.

Name	Machine	State	Health	Listen Port	CPU Usage (%)
AdminServer(admin)	SLES_Machine_1	Running	OK	7001	0.00
WC_Portlet	SLES_Machine_1	Shutdown	Unknown	8888	Unavailable
WC_Portlet	SLES_Machine_1	Shutdown	Unknown	8889	Unavailable

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

The screenshot shows the Oracle Enterprise Manager Fusion Middleware Control interface after the servers have been started. The left sidebar summary cards now show: Servers (3 Up), Clusters (2 Up), and Deployments (6 Up). The 'Servers' table shows all three servers in a 'Running' state.

Name	Status	Cluster	Machine	State	Health	Listen Port	CPU Usage (%)
AdminServer(admin)	↑		SLES_Machine_1	Running	OK	7001	0.33
WC_Portlet	↑	wcp_cluster_1	SLES_Machine_1	Running	OK	8888	0.17
WC_Portlet	↑	wcp_cluster_2	SLES_Machine_1	Running	OK	8889	0.05

Checking WebCenter Servers state through Oracle WLST tool.

```
oracle@c3n1:/home/FMW_home/Oracle/Middleware/Oracle_Home/oracle_common/common/bin> ./wlst.sh
Initializing WebLogic Scripting Tool (WLST) ...

Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands

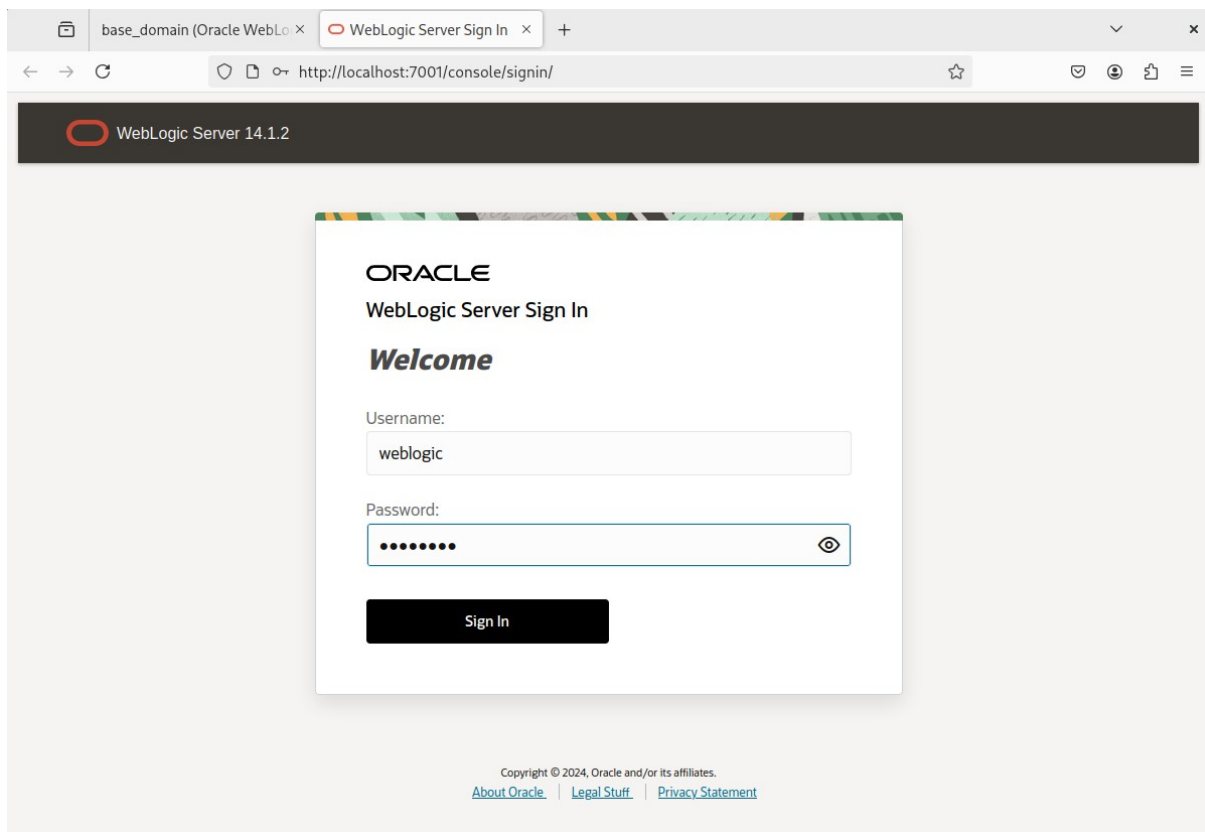
wls:/offline> connect('weblogic','welcome1','c3n1:7001')
Connecting to t3://c3n1:7001 with userid weblogic ...
Successfully connected to Admin Server "AdminServer" that belongs to domain "base_domain".

Warning: An insecure protocol was used to connect to the server.
To ensure on-the-wire security, the SSL port or Admin port should be used instead.

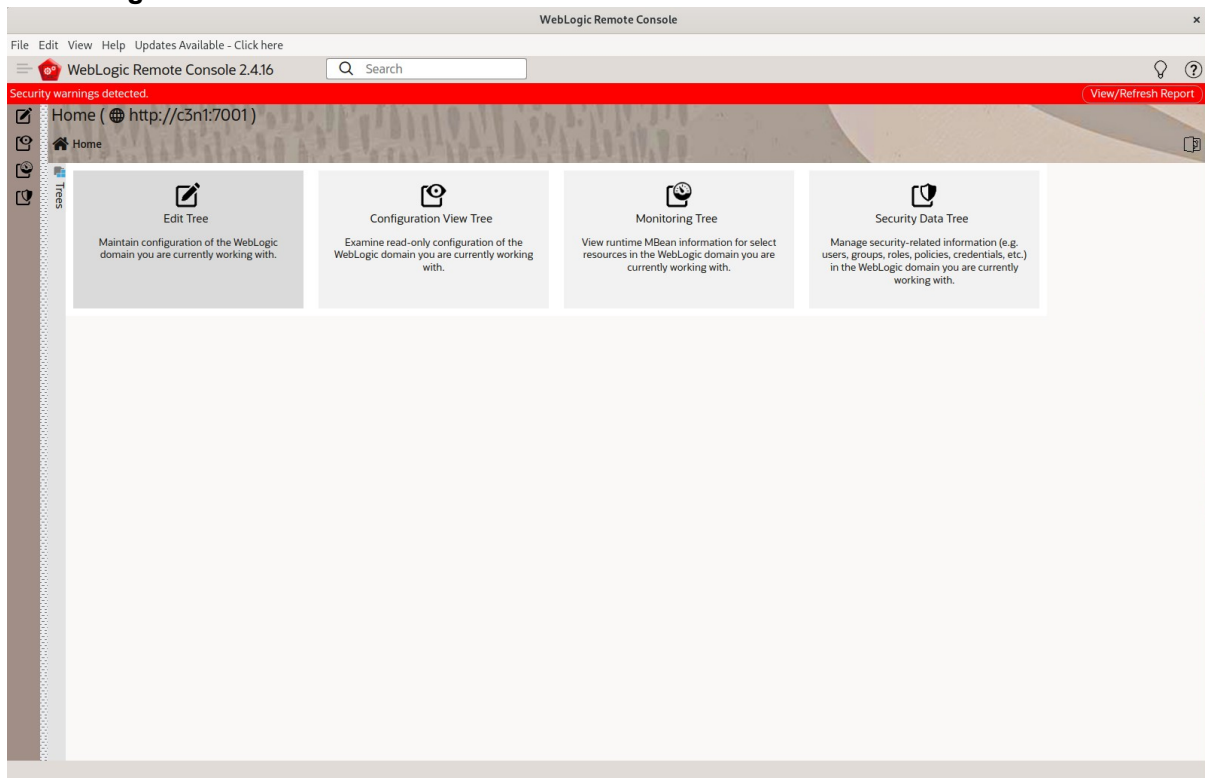
wls:/base_domain/serverConfig/> state('AdminServer')
Current state of "AdminServer" : RUNNING
wls:/base_domain/serverConfig/> state('WC_Portal')
Current state of "WC_Portal" : RUNNING
wls:/base_domain/serverConfig/> state('WC_Portlet')
Current state of "WC_Portlet" : RUNNING
wls:/base_domain/serverConfig/> █
```

2). Access to Administration Server Console through WebLogic Remote Console.

Login Page as shown below



Home Page:



Viewing the summary of servers:

The screenshot shows the WebLogic Remote Console - ServerRuntimes interface. The left sidebar contains a navigation tree with categories like Environment, Domain Runtime, Domain Security Runtime, Servers, JVM Runtime, Node Manager Logs, Clustering, Migration, Server Channel Runtimes, Edit Session Configurations, System Component Life Cycle Runtimes, Scheduling, Deployments, Services, Security, Interoperability, Diagnostics, Recent Searches, and Dashboards. The main content area is titled 'Monitoring Tree (http://c3n1:7001)' and shows a 'Servers' dropdown. Below this, there is a 'Customize Table' button and a 'New Dashboard' button. A table lists the following servers:

	Name	State	Current Machine	Complete Reqs	Open Sockets	Health	Stuck Threads
<input type="checkbox"/>	AdminServer	Running	SLES_Machine_1	14785	10	Okay	0
<input type="checkbox"/>	WC_Portlet	Running	SLES_Machine_1	15541	3	Okay	0
<input type="checkbox"/>	WC_Portlet	Running	SLES_Machine_1	9660	3	Okay	0

Below the table, it says 'Total Rows: 3'.

Viewing the summary of machines

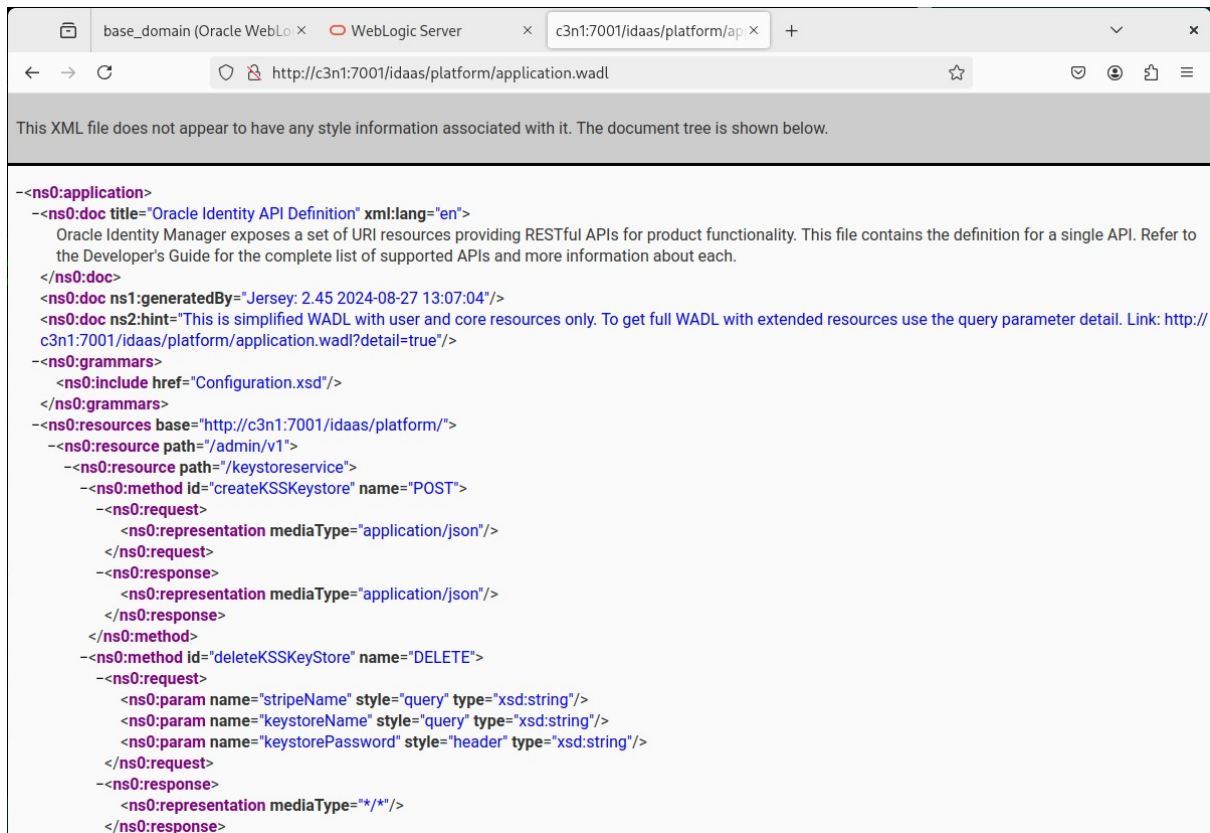
The screenshot shows the WebLogic Remote Console - Machines interface. The left sidebar contains a navigation tree with categories like Environment, Domain, Servers, Clusters, Server Templates, Machines, SLES_Machine_1, Migratable Targets, Virtual Hosts, Log Filters, Singleton Services, Startup Classes, Shutdown Classes, Coherence Clusters, Scheduling, Deployments, Services, Security, Interoperability, Diagnostics, Custom Resources, and Recent Searches. The main content area is titled 'Edit Tree (http://c3n1:7001)' and shows a 'Machines' dropdown. Below this, there is a 'New' button and a 'Customize Table' button. A table lists the following machines:

	Name	Type
<input type="checkbox"/>	SLES_Machine_1	Machine

Below the table, it says 'Total Rows: 1'.

3). Test Oracle WebCenter Portal Web Service

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



This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
-<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: 2.45 2024-08-27 13:07:04"/>
<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://
c3n1:7001/idaas/platform/application.wadl?detail=true"/>
-<ns0:grammars>
  <ns0:include href="Configuration.xsd"/>
</ns0:grammars>
-<ns0:resources base="http://c3n1:7001/idaas/platform/">
-<ns0:resource path="/admin/v1">
  -<ns0:resource path="/keystoreservice">
    -<ns0:method id="createKSSKeystore" name="POST">
      -<ns0:request>
        <ns0:representation mediaType="application/json"/>
      </ns0:request>
      -<ns0:response>
        <ns0:representation mediaType="application/json"/>
      </ns0:response>
    </ns0:method>
    -<ns0:method id="deleteKSSKeyStore" name="DELETE">
      -<ns0:request>
        <ns0:param name="stripeName" style="query" type="xsd:string"/>
        <ns0:param name="keystoreName" style="query" type="xsd:string"/>
        <ns0:param name="keystorePassword" style="header" type="xsd:string"/>
      </ns0:request>
      -<ns0:response>
        <ns0:representation mediaType="*/"/>
      </ns0:response>
    </ns0:method>
  </ns0:resource>
</ns0:resource>
</ns0:resources>
```

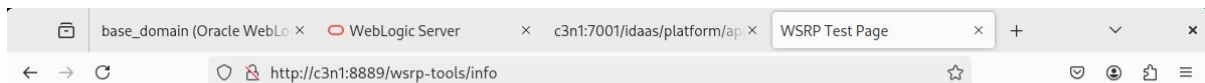
b. Application: wsrp-tools (URL: <http://host:8889/wsrp-tools>)

Login

Username*

Password*

Submit



ORACLE WebCenter Portal : Portlets

WSRP Producer Test Page

Your WSRP Producer Contains the Following Portlets:

Portlet Name (Minimum WSRP Version)

- Parameter Display Portlet (2.0)
- Parameter Form Portlet (2.0)

Container Configuration

Persistent Store Type: Database
Value obtained from environment entry java:comp/env/oracle/portal/wsrp/server/persistentStore

Data Source Name: java:comp/env/jdbc/portletPrefs
Using default value. To change it, specify the following environment entry java:comp/env/oracle/portal/wsrp/server/dataSourceName

Use Java Object Cache: true
Value obtained from environment entry java:comp/env/oracle/portal/wsrp/server/enableJavaObjectCache

Container Version

Implementation version: 14.1.2 , Label: WCCORE_14.1.2.0.0_GENERIC_241125.0050

WSDL URLs

[WSRP v1 WSDL](#)
[WSRP v2 WSDL](#)

SOAP Monitor

[SOAP Monitor](#)

base_domain (Oracle W x WebLogic Server x c3n1:7001/idaas/platfor x WSRP Test Page x c3n1:8889/wsrp-tools/ x + v x

← → ↻ http://c3n1:8889/wsrp-tools/portlets/wsrp1?WSDL ☆ 📄 📁 ☰

This XML file does not appear to have any style information associated with it. The document tree is shown below.

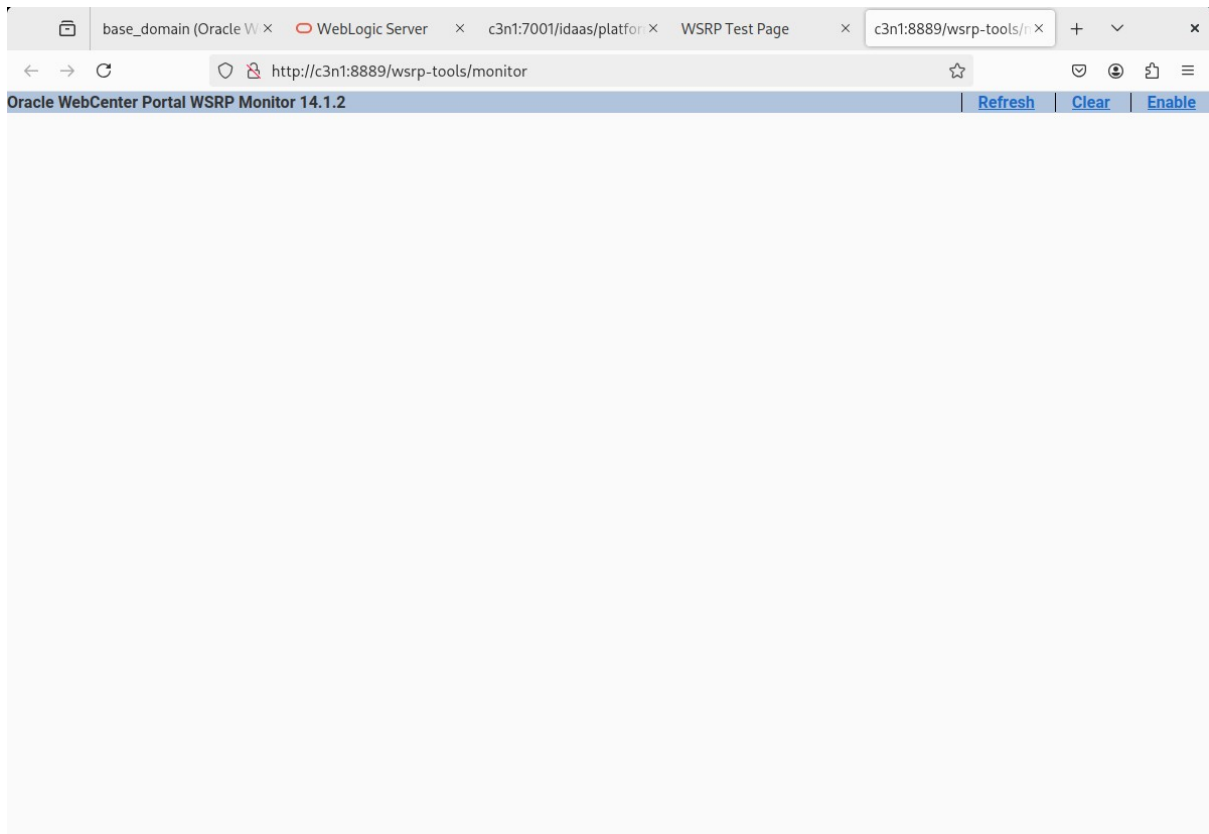
```
<?xml version="1.0"?>
<definitions targetNamespace="urn:oasis:names:tc:wsrp:v1:wsdl">
  <import namespace="urn:oasis:names:tc:wsrp:v1:bind" location="http://c3n1:8889/wsrp-tools/portlets/wsrp1?WSDL=wsrp_v1_bindings.wsdl"/>
  <service name="WSRP_v1_Service">
    <port name="WSRPBaseService" binding="bind:WSRP_v1_Markup_Binding_SOAP">
      <soap:address location="http://c3n1:8889/wsrp-tools/portlets/WSRPBaseService"/>
    </port>
    <port name="WSRPServiceDescriptionService" binding="bind:WSRP_v1_ServiceDescription_Binding_SOAP">
      <soap:address location="http://c3n1:8889/wsrp-tools/portlets/WSRPServiceDescriptionService"/>
    </port>
    <port name="WSRPRegistrationService" binding="bind:WSRP_v1_Registration_Binding_SOAP">
      <soap:address location="http://c3n1:8889/wsrp-tools/portlets/WSRPRegistrationService"/>
    </port>
    <port name="WSRPPortletManagementService" binding="bind:WSRP_v1_PortletManagement_Binding_SOAP">
      <soap:address location="http://c3n1:8889/wsrp-tools/portlets/WSRPPortletManagementService"/>
    </port>
  </service>
</definitions>
```

base_domain (Oracle W x WebLogic Server x c3n1:7001/idaas/platfor x WSRP Test Page x c3n1:8889/wsrp-tools/ x + v x

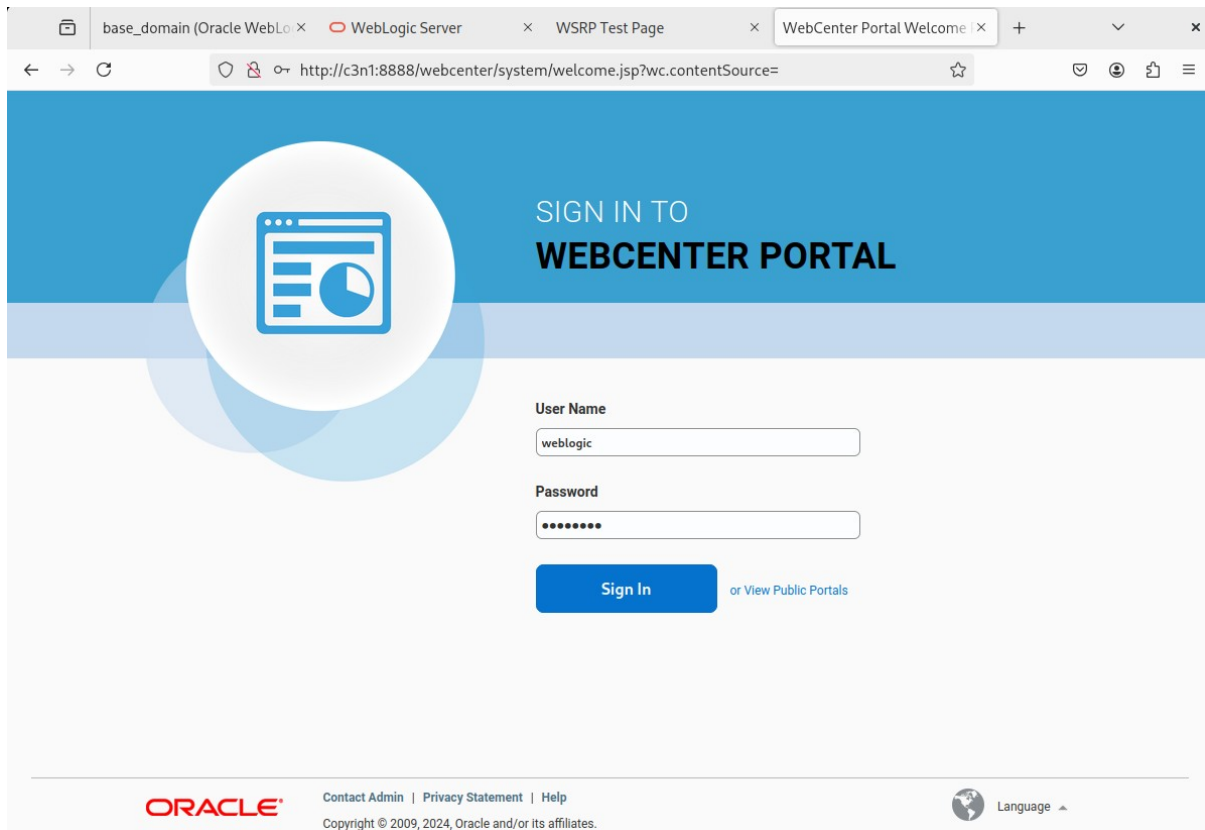
← → ↻ http://c3n1:8889/wsrp-tools/portlets/wsrp2?WSDL ☆ 📄 📁 ☰

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<?xml version="1.0"?>
<definitions targetNamespace="urn:oasis:names:tc:wsrp:v2:wsdl">
  <import namespace="urn:oasis:names:tc:wsrp:v2:bind" location="http://c3n1:8889/wsrp-tools/portlets/wsrp2?WSDL=wsrp_v2_bindings.wsdl"/>
  <service name="WSRP_v2_Service">
    <port name="WSRP_v2_ServiceDescription_Service" binding="bind:WSRP_v2_ServiceDescription_Binding_SOAP">
      <soap:address location="http://c3n1:8889/wsrp-tools/portlets/WSRP_v2_ServiceDescription_Service"/>
    </port>
    <port name="WSRP_v2_Markup_Service" binding="bind:WSRP_v2_Markup_Binding_SOAP">
      <soap:address location="http://c3n1:8889/wsrp-tools/portlets/WSRP_v2_Markup_Service"/>
    </port>
    <port name="WSRP_v2_Registration_Service" binding="bind:WSRP_v2_Registration_Binding_SOAP">
      <soap:address location="http://c3n1:8889/wsrp-tools/portlets/WSRP_v2_Registration_Service"/>
    </port>
    <port name="WSRP_v2_PortletManagement_Service" binding="bind:WSRP_v2_PortletManagement_Binding_SOAP">
      <soap:address location="http://c3n1:8889/wsrp-tools/portlets/WSRP_v2_PortletManagement_Service"/>
    </port>
  </service>
</definitions>
```



c. **Application:** WebCenter Portal (URL: <http://host:8888/webcenter/portal>)



base_domain (Oracle WebLo x WebLogic Server x WSRP Test Page x WebCenter Portal Welcome x

← → ↻ http://c3n1:8888/webcenter/system/welcome.jsp?wc.contentSource=

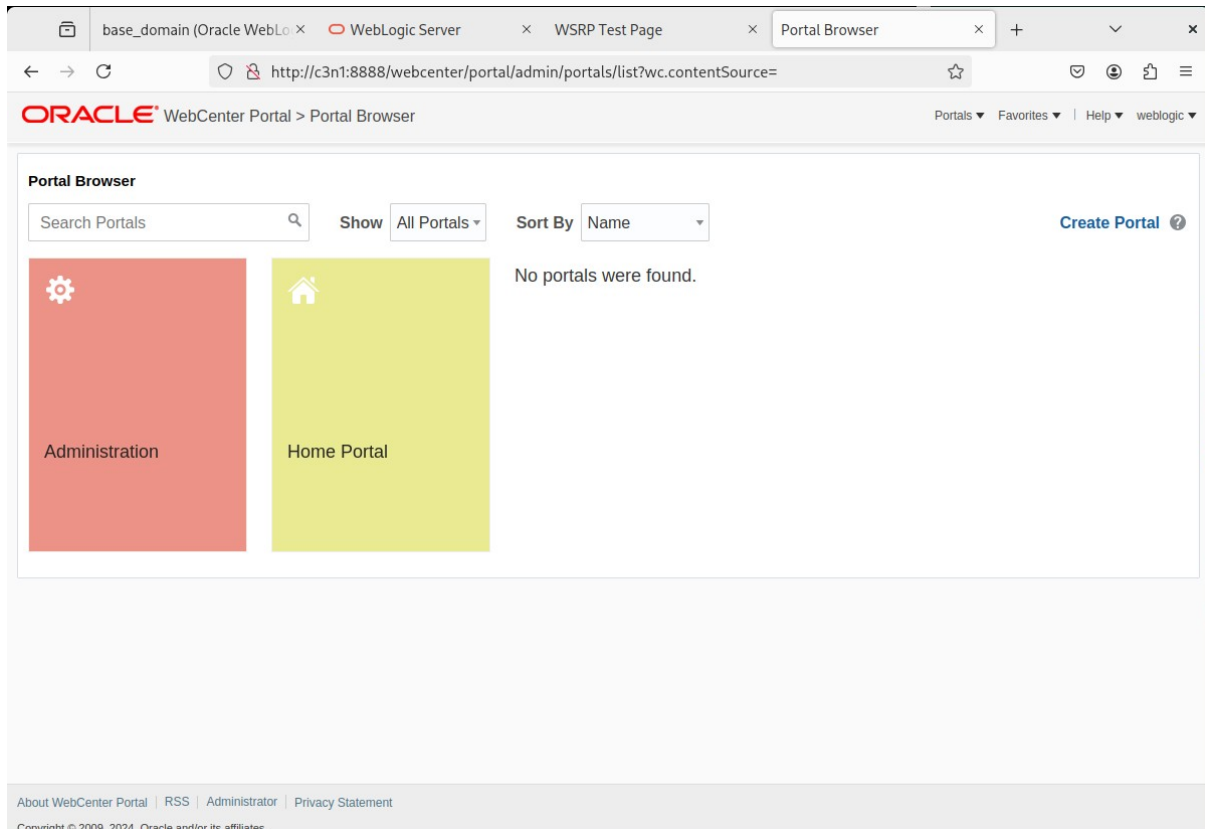
**SIGN IN TO
WEBCENTER PORTAL**

User Name
weblogic

Password

Sign In or View Public Portals

ORACLE Contact Admin | Privacy Statement | Help
Copyright © 2009, 2024, Oracle and/or its affiliates. Language



base_domain (Oracle WebLo x WebLogic Server x WSRP Test Page x Portal Browser x

← → ↻ http://c3n1:8888/webcenter/portal/admin/portals/list?wc.contentSource=

ORACLE WebCenter Portal > Portal Browser Portals Favorites Help weblogic

Portal Browser

Search Portals Show All Portals Sort By Name Create Portal ?

Administration Home Portal

No portals were found.

About WebCenter Portal RSS Administrator Privacy Statement
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base_domain (Oracle WebLo x WebLogic Server x WSRP Test Page x Create Portal x


http://c3n1:8888/webcenter/portal/admin/portals/newportal

ORACLE WebCenter Portal > Administration Portals Favorites Help weblogic

Create Portal

Template Gallery Create Portal ?

Portal Template: Portal



Preview Pages

Title
Oracle WebCenter 14c on SLES15 SP7

Description
Oracle Web Center 14c on SLES15 SP7

Keywords
Enter Keywords
portal x

URL
OracleWebCenter14conSLES15SP7
http://c3n1:8888/webcenter/portal/OracleWebCenter14conSLES15SP7

Public Private Hidden

About WebCenter Portal RSS Administrator Privacy Statement
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base_domain (Oracle WebLo x WebLogic Server x WSRP Test Page x Home x

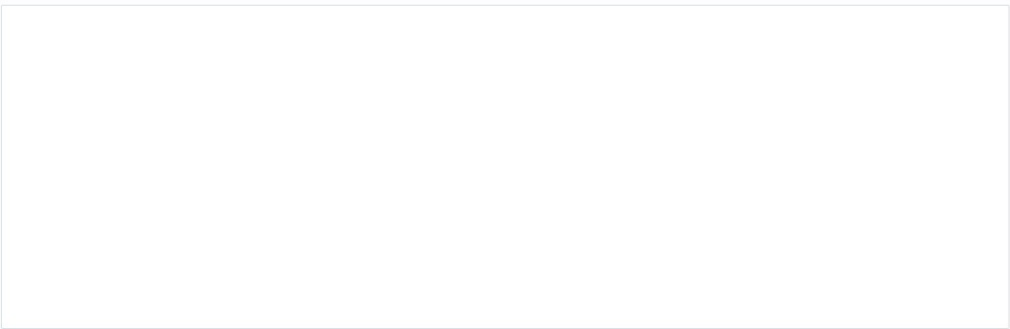
http://c3n1:8888/webcenter/portal/oracle/webcenter/page/scopedMD/s2875f47b_8a02_4ab2_9b

Oracle WebCenter 14c on S... > Home Edit Page View Portal Help

Oracle WebCenter 14c on SLES15...

Portals Favorites Administration Help weblogic

Home



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The screenshot shows a web browser window with multiple tabs. The active tab is titled "Oracle WebCenter 14c on SLES15 SP7". The address bar shows the URL: `http://c3n1:8888/webcenter/portal/admin/portals/admin/OracleWebCenter14conSLES15SP7/general`. The page title is "Oracle WebCenter 14c on SLES15 SP7 > General".

The interface has a left sidebar with various icons. The main content area is divided into sections:

- Portal Information**
 - Title**: Oracle WebCenter 14c on SLES15 SP7
 - Acronym**: OW1
 - Description**: Oracle Web Center 14c on SLES15 SP7
 - Portal Color**: Choose Color
 - Keywords**: portal
 - Save** button
- Portal Details**
 - Name**: OracleWebCenter14conSLES15SP7 [Rename](#)
 - Portal URL**: <http://c3n1:8888/webcenter/portal/OracleWebCenter14conSLES15SP7>
 - Internal ID**: s2875f47b_8a02_4ab2_9b71_254bf8861639
 - Members**: 1
 - Last Activity**: 30 seconds ago
 - Created**: 35 seconds ago by weblogic
- Status**
 - Active**: ☒ The portal is active

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

The screenshot shows a web browser window with the URL `http://c3n1:8888/collector/analytics-collector-diagnostics.jsp`. The page title is "Analytics Collector". Below the title, there is a section labeled "Collector Information". A "Refresh" button is visible. The main content is a table with two columns: "Configuration" and "Value".

Configuration	Value
Collector Default Port	31314
Collector Max Port	31314
Collector Server Name	localhost
Broadcast Type	Multicast
Cluster Enabled	✗
Cluster Name	✗
Partitioning Enabled	✗
Time Dimension for this year	✓
Space Dimension Exists	✓

End of Oracle WebCenter Portal.

Oracle SOA Suite

1. Installing Oracle SOA Suite 14c

1-1. Prerequisites:

Installation of Oracle SOA Suite requires:

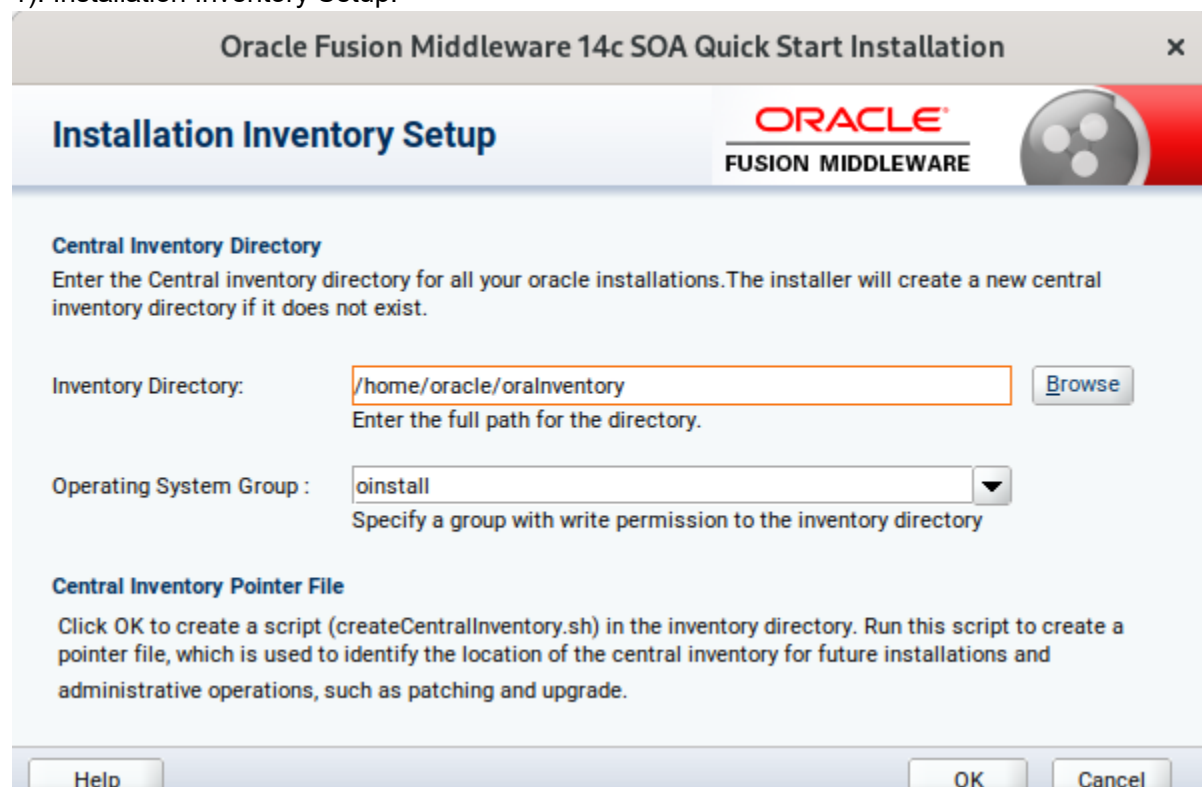
- 1). Oracle Database 19c installed.
- 2). Oracle JDK 17.0.12 and later installed.

1-2. Log in to the target system (SLES 15 SP7 64-bit OS) as a non-admin user. Download the Oracle SOA Suite 14c (14.1.2.0.0) 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 ('V1045350-01.zip') file and launch the installation program by running '**java -jar fmw_14.1.2.0.0_soa_quickstart.jar**'

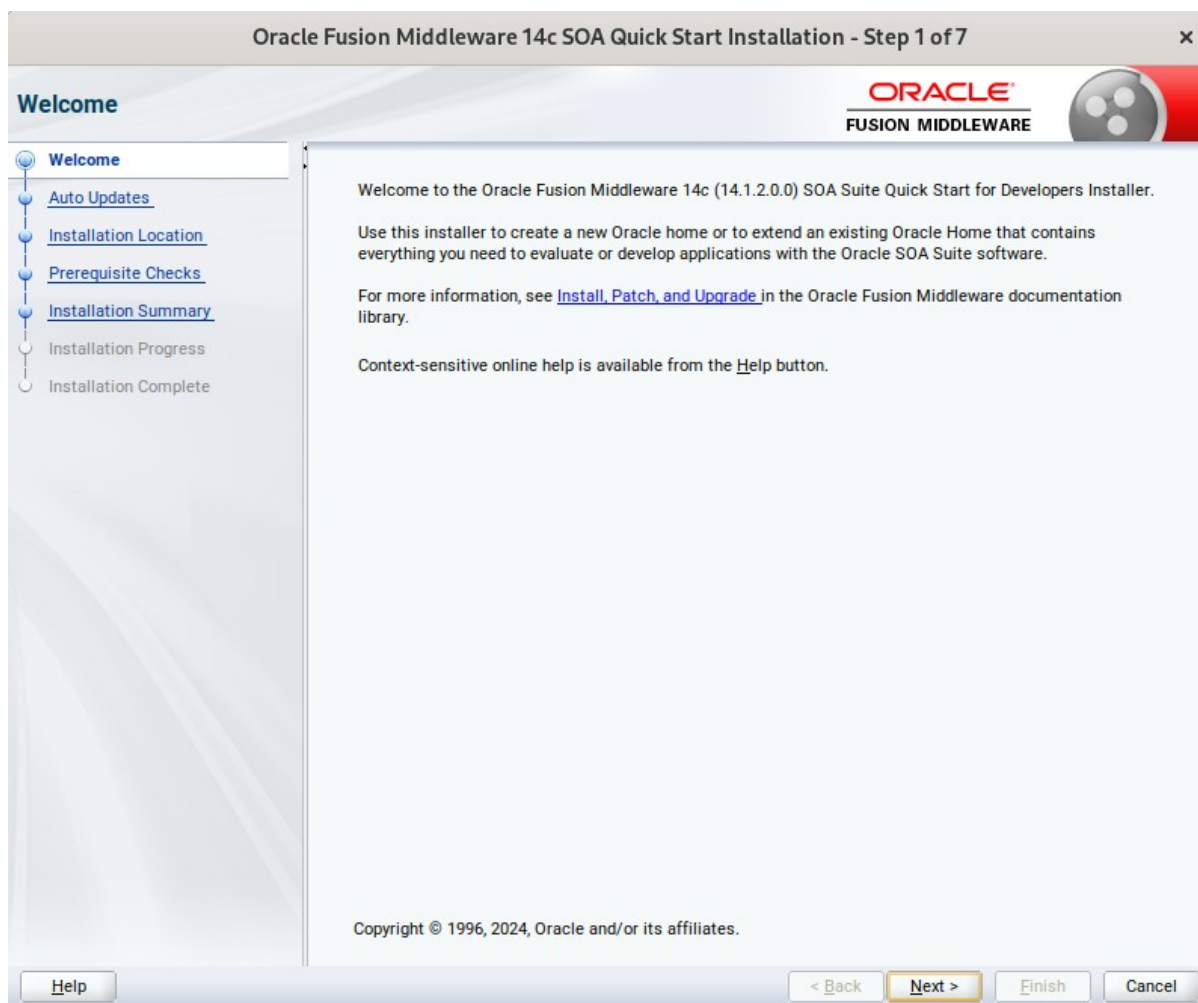
For the actual installation, follow the steps below:

1). Installation Inventory Setup.



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.



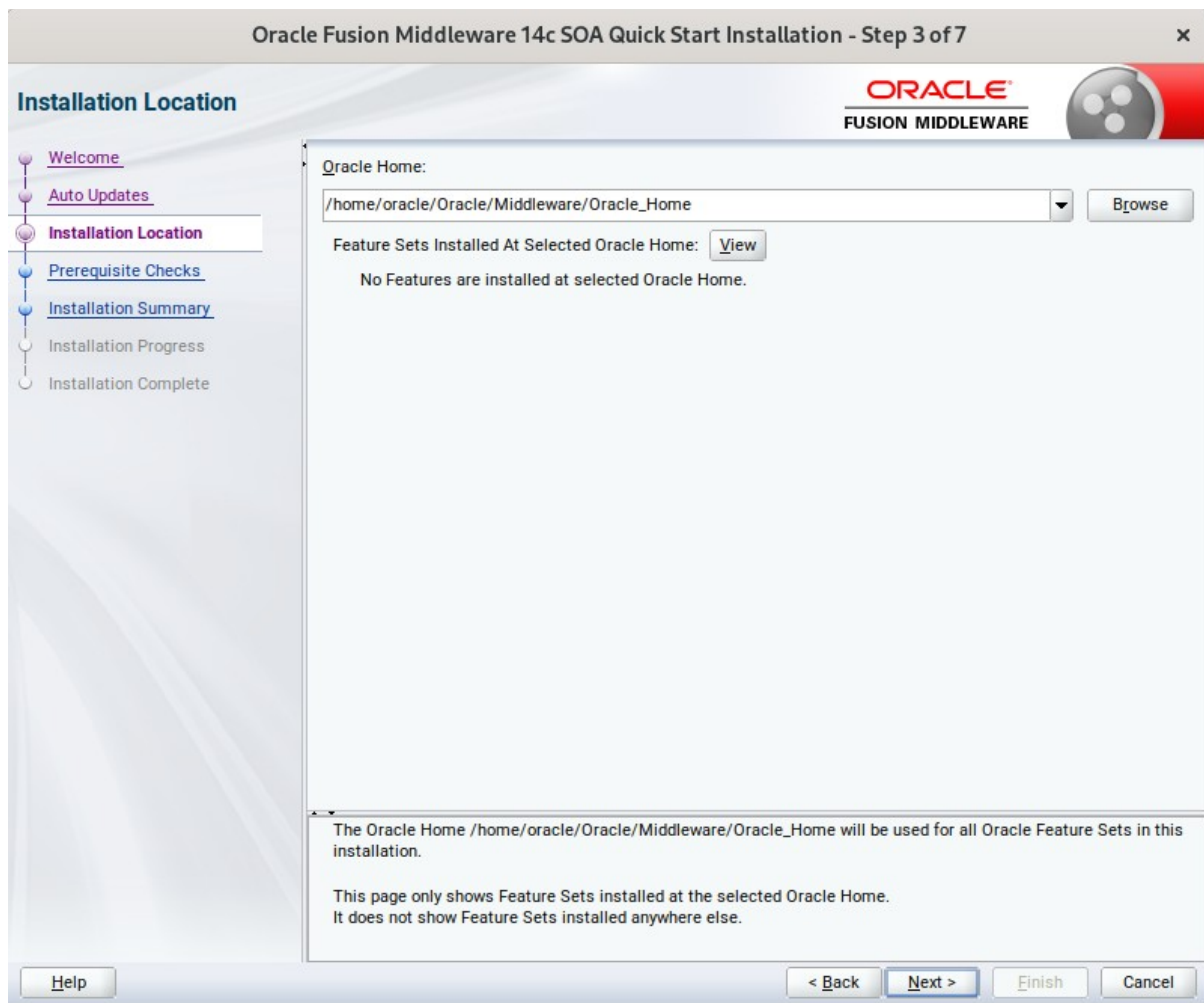
This page welcomes you to the installation. Click **Next** to continue.

3). The **Auto Updates** page appears.

The screenshot shows the 'Auto Updates' window of the Oracle Fusion Middleware 14c SOA Quick Start Installation. The window title is 'Oracle Fusion Middleware 14c SOA Quick Start Installation - Step 2 of 7'. The Oracle logo and 'FUSION MIDDLEWARE' text are in the top right. A sidebar on the left contains a navigation menu with links: 'Welcome', 'Auto Updates' (selected), 'Installation Location', 'Prerequisite Checks', 'Installation Summary', 'Installation Progress', and 'Installation Complete'. The main area has two radio buttons: 'Skip Auto Updates' (selected) and 'Select patches from directory'. Below the second option is a 'Location:' text box with a 'Browse' button. Another radio button, 'Search My Oracle Support for Updates', is below that. It includes 'Username:' and 'Password:' text boxes, a 'Proxy Settings' button, and a 'Test Connection' button. A 'Search' button is at the bottom left of the main area. At the bottom of the window are buttons for '< Back', 'Next >', 'Finish', and 'Cancel'. A 'Help' button is in the bottom left corner of the sidebar area.

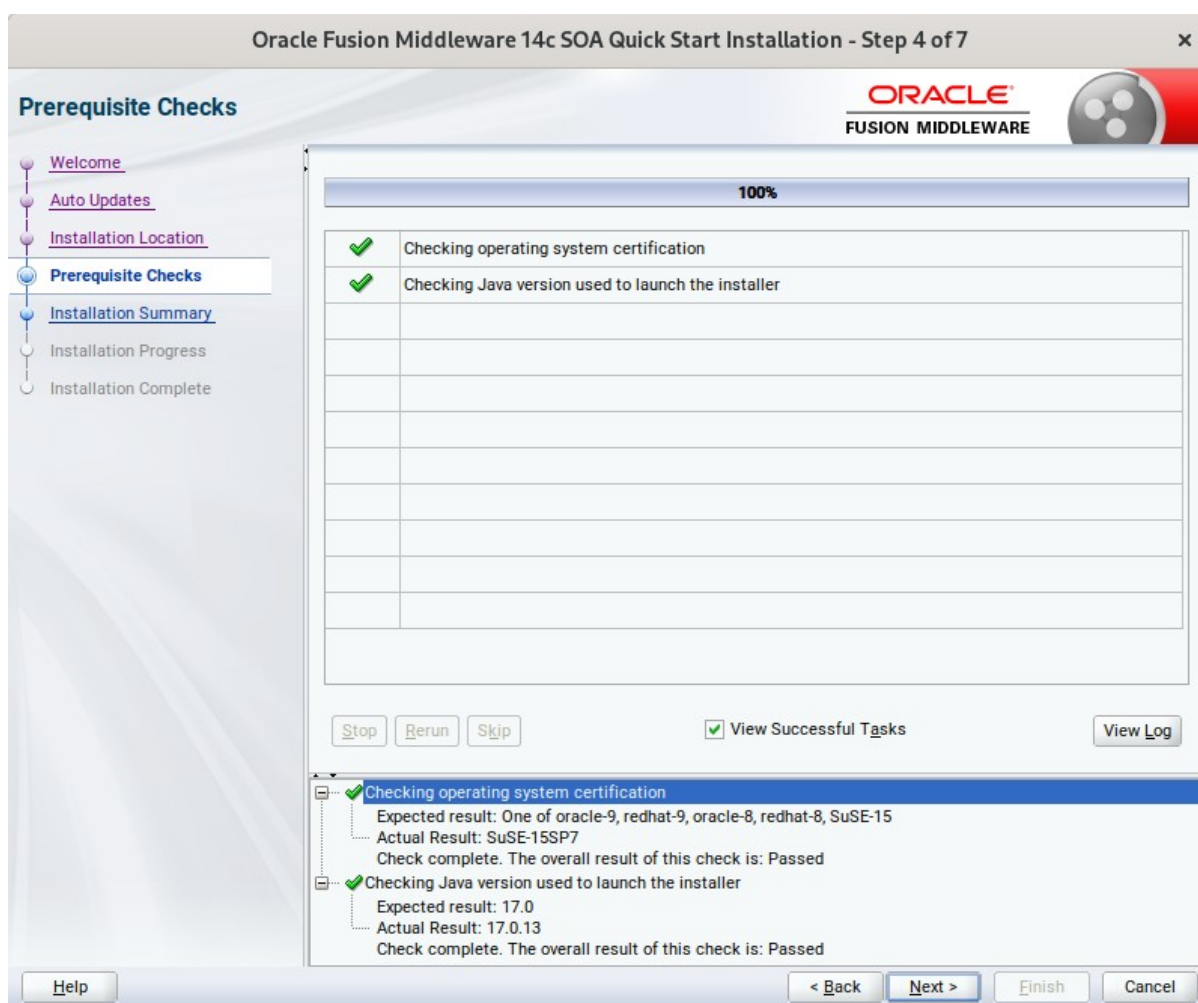
This page enables you to choose to automatically receive software updates for your components from Oracle Corporation. make your choices, then click **Next** to continue.

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



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

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



This page 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.

(Note:

1). **Oracle Fusion Middleware 14c (14.1.2.0.0) - Minimum Requirements for the SLES OS.**

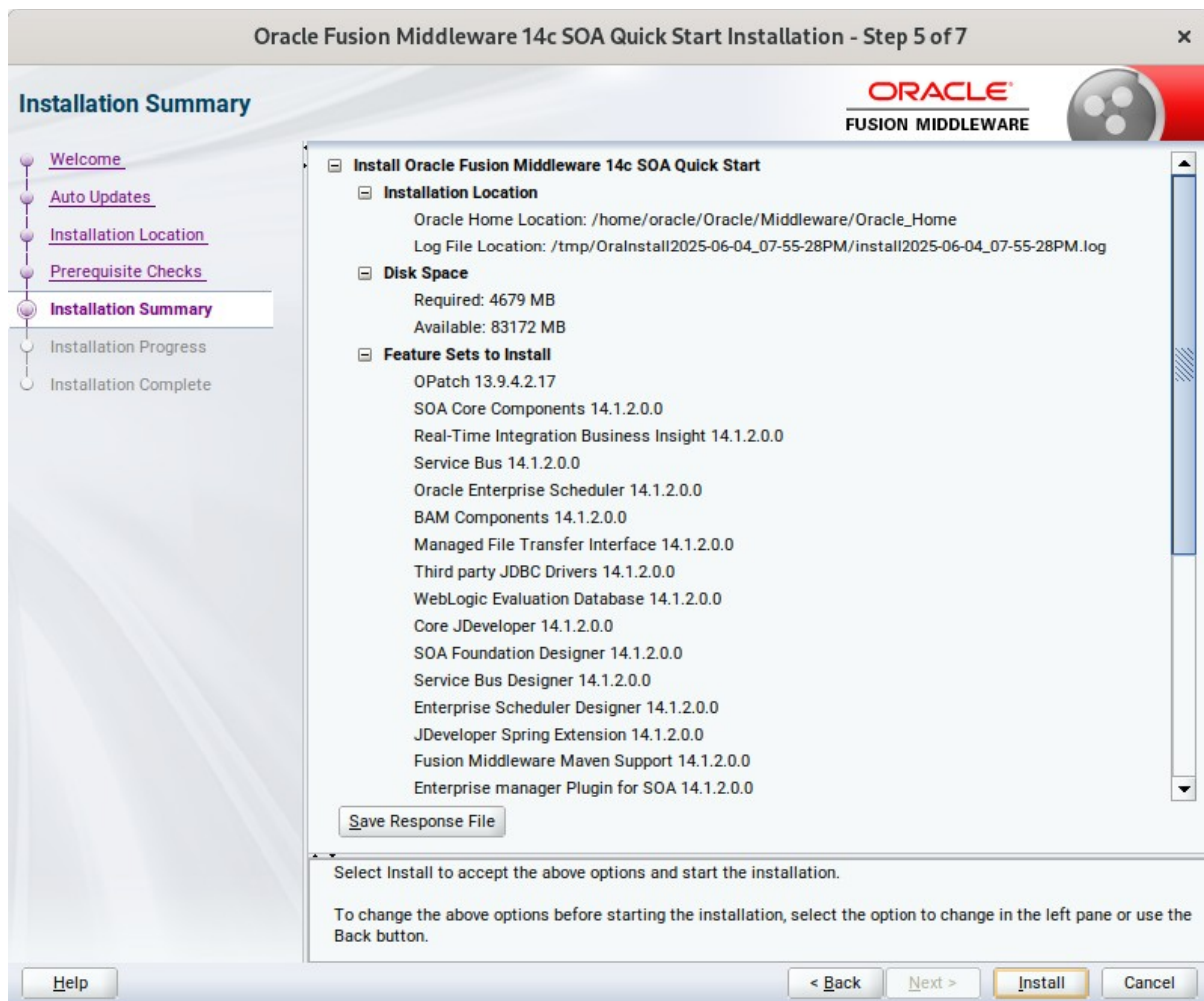
SUSE Linux Enterprise Server 15 (SP6+)

2). **Required Packages - Please ensure following packages(or later versions) are installed.**

```
binutils-2.41-150100.7.46.1-x86_64
glibc-2.38-150600.12.1-x86_64
linux-glibc-devel-6.4-150600.2.17-x86_64
glibc-devel-2.38-150600.12.1-x86_64
glibc-locale-2.38-150600.12.1-x86_64
glibc-extra-2.38-150600.12.1-x86_64
glibc-32bit-2.38-150600.12.1-x86_64
glibc-devel-32bit-2.38-150600.12.1-x86_64
mksh-56c-1.10-x86_64
```

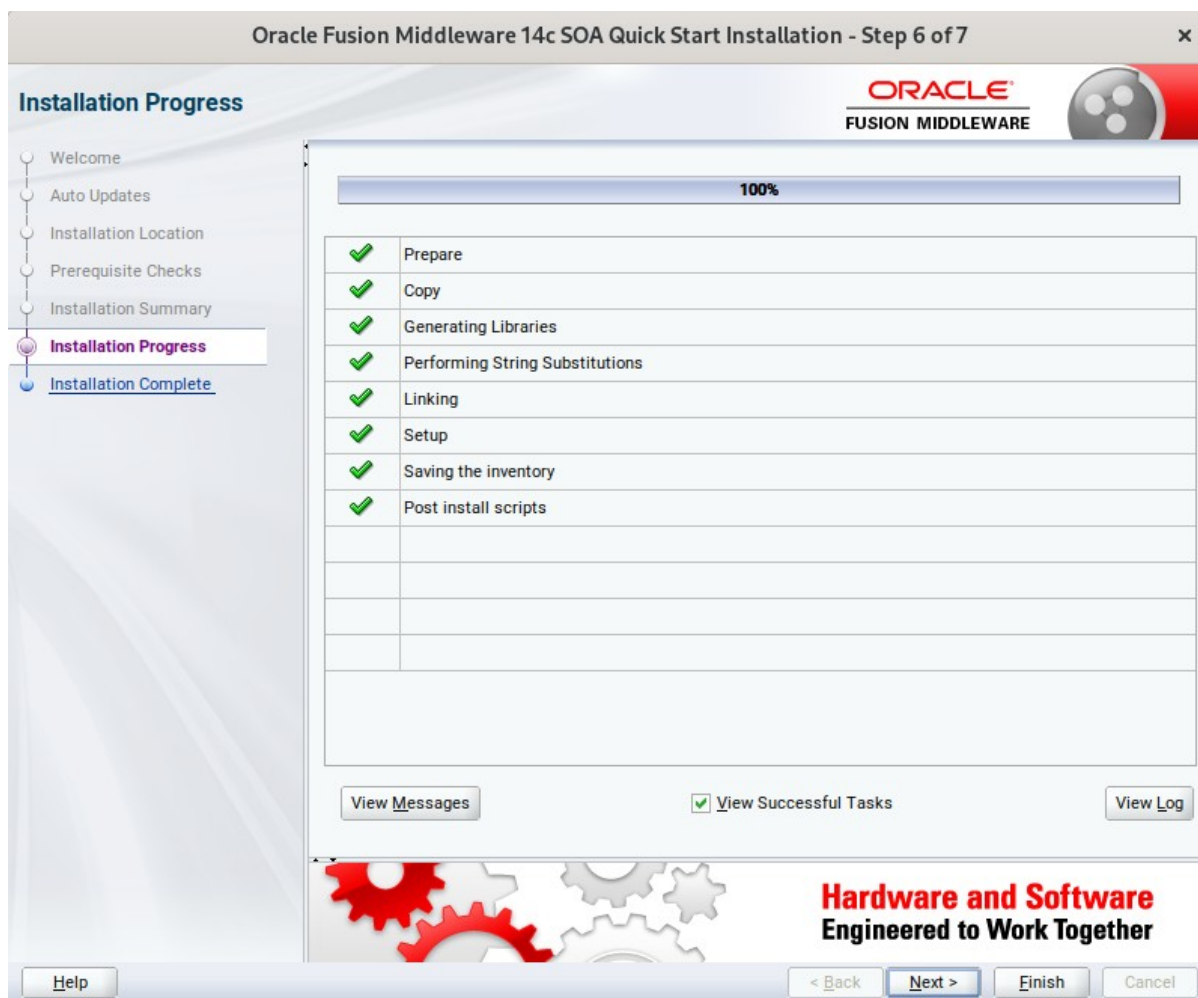

libaio1-0.3.109-1.25-x86_64
libaio1-32bit-0.3.109-1.25-x86_64
libaio-devel-32bit-0.3.109-1.25-x86_64
libaio-devel-0.3.109-1.25-x86_64
libcap2-2.63-150400.3.3.1-x86_64
libcap-ng0-0.7.9-4.37-x86_64
libcap2-32bit-2.63-150400.3.3.1-x86_64
libstdc++6-13.2.1+git8285-150000.1.9.1-x86_64
libstdc++6-devel-gcc7-7.5.0+r278197-150000.4.41.1-x86_64
libstdc++6-32bit-13.2.1+git8285-150000.1.9.1-x86_64
libstdc++6-devel-gcc7-32bit-7.5.0+r278197-150000.4.41.1-x86_64
libstdc++6-locale-13.2.1+git8285-150000.1.9.1-x86_64
libstdc++-devel-7-3.9.1-x86_64
libgcc_s1-13.2.1+git8285-150000.1.9.1-x86_64
libgcc_s1-32bit-13.2.1+git8285-150000.1.9.1-x86_64
make-4.2.1-7.3.2-x86_64
make-lang-4.2.1-7.3.2-noarch
makedumpfile-1.7.4-150600.1.3-x86_64
xorg-x11-7.6_1-1.22-noarch
xorg-x11-server-21.1.11-150600.3.2-x86_64
xorg-x11-fonts-7.6-13.6.1-noarch
xorg-x11-driver-video-7.6_1-9.10-x86_64
xorg-x11-Xvnc-1.13.1-150600.2.6-x86_64
xorg-x11-fonts-core-7.6-13.6.1-noarch
xorg-x11-server-extra-21.1.11-150600.3.2-x86_64
xorg-x11-essentials-7.6_1-1.22-noarch
)

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



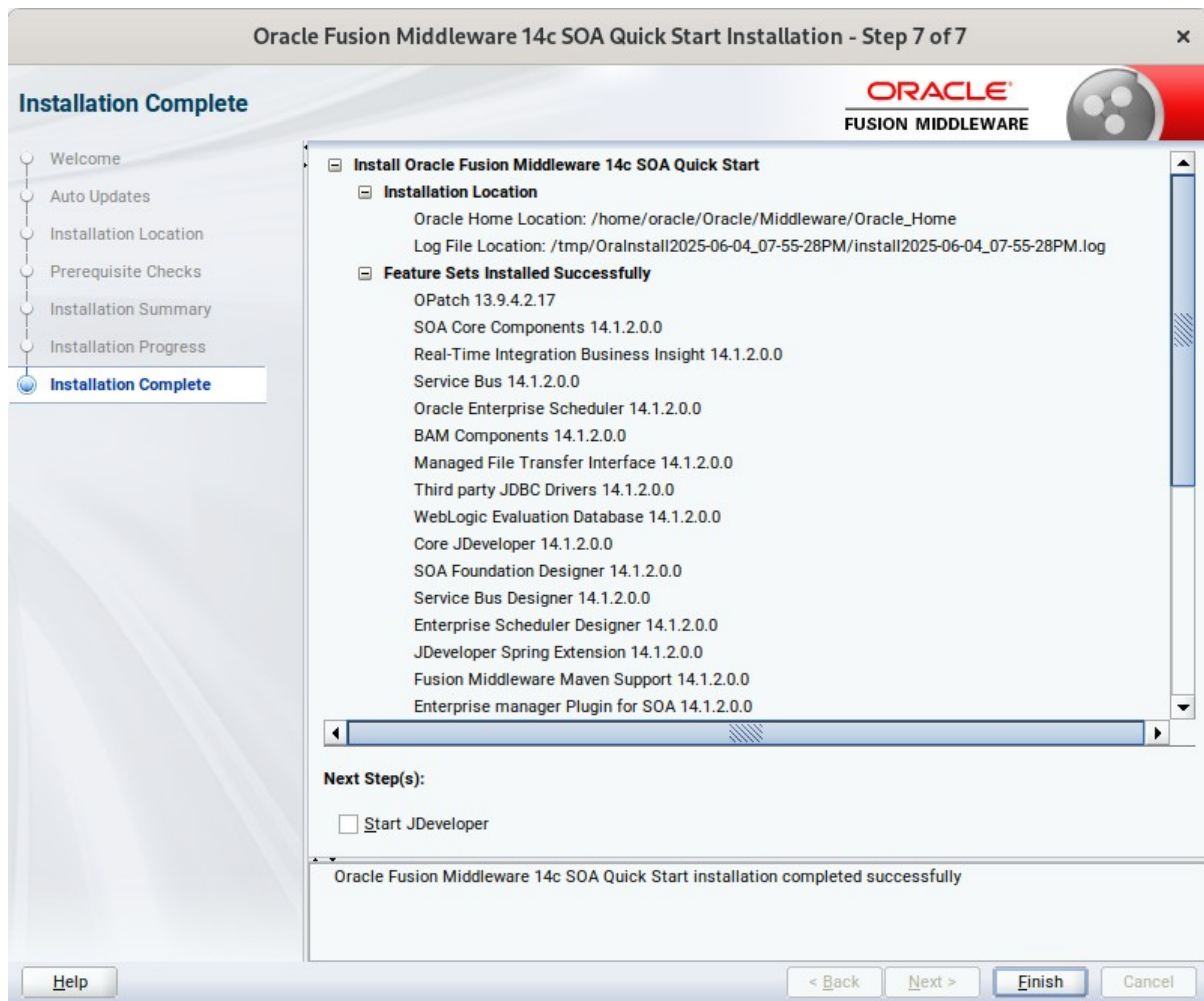
This page shows you what components and features are about to be installed. If you need to make changes, click **Back**, otherwise, click **Install** to start the installation.

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.



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.

Screenshot: Database schemas creating for Oracle SOA Suite.

Repository Creation Utility - Step 4 of 8

Repository Creation Utility

Specify a unique prefix for all schemas created in this session, so you can easily locate, reference, and manage the schemas later.

Edition Name:

☐ Select existing prefix:

☒ Create new prefix:

Alpha numeric only. Cannot start with a number. No special characters.

Component	Schema Owner
<input checked="" type="checkbox"/> Oracle AS Repository Components	
<input checked="" type="checkbox"/> AS Common Schemas	
<input checked="" type="checkbox"/> Common Infrastructure Services *	DEV_STB
<input checked="" type="checkbox"/> Oracle Platform Security Services	DEV_OPSS
<input checked="" type="checkbox"/> Oracle Enterprise Scheduler	DEV_ESS
<input checked="" type="checkbox"/> User Messaging Service	DEV_UMS
<input checked="" type="checkbox"/> Audit Services	DEV_IAU
<input checked="" type="checkbox"/> Audit Services Append	DEV_IAU_APPEND
<input checked="" type="checkbox"/> Audit Services Viewer	DEV_IAU_VIEWER
<input checked="" type="checkbox"/> Metadata Services	DEV_MDS
<input checked="" type="checkbox"/> Weblogic Services *	DEV_WLS
<input checked="" type="checkbox"/> SOA Suite	
<input checked="" type="checkbox"/> SOA Infrastructure	DEV_SOAINFRA

* Mandatory component. Mandatory components cannot be deselected.

Help < Back Next > Finish Cancel

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

Ensure schema creation is successful.

Repository Creation Utility - Step 9 of 9

Repository Creation Utility

ORACLE
FUSION MIDDLEWARE

Database details:

Host Name: Dell5530
Port: 1521
Service Name: SUSEPDB1
Connected As: sys
Operation: System and Data Load concurrently
Execution Time: 5 minutes 13 seconds

RCU Logfile: /tmp/RCU2025-06-04_20-17_1382827772/logs/rcu.log
Component Log: /tmp/RCU2025-06-04_20-17_1382827772/logs
Directory: /tmp/RCU2025-06-04_20-17_1382827772/logs
View Log: [rcu.log](#)

Prefix for (prefixable): DEV
Schema Owners

Component	Status	Time	Logfile(Click to view)
Common Infrastructure Services	Success	00:10.038(sec)	stb.log
Oracle Platform Security Services	Success	00:41.443(sec)	opss.log
Oracle Enterprise Scheduler	Success	00:15.561(sec)	ess.log
SOA Infrastructure	Success	01:21.125(min)	soainfra.log
User Messaging Service	Success	00:15.747(sec)	ucsums.log
Audit Services	Success	00:59.631(sec)	iau.log
Audit Services Append	Success	00:09.391(sec)	iau_append.log
Audit Services Viewer	Success	00:09.451(sec)	iau_viewer.log
Metadata Services	Success	00:21.093(sec)	mds.log
Weblogic Services	Success	00:27.794(sec)	wls.log

Help < Back Next > Create Close

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

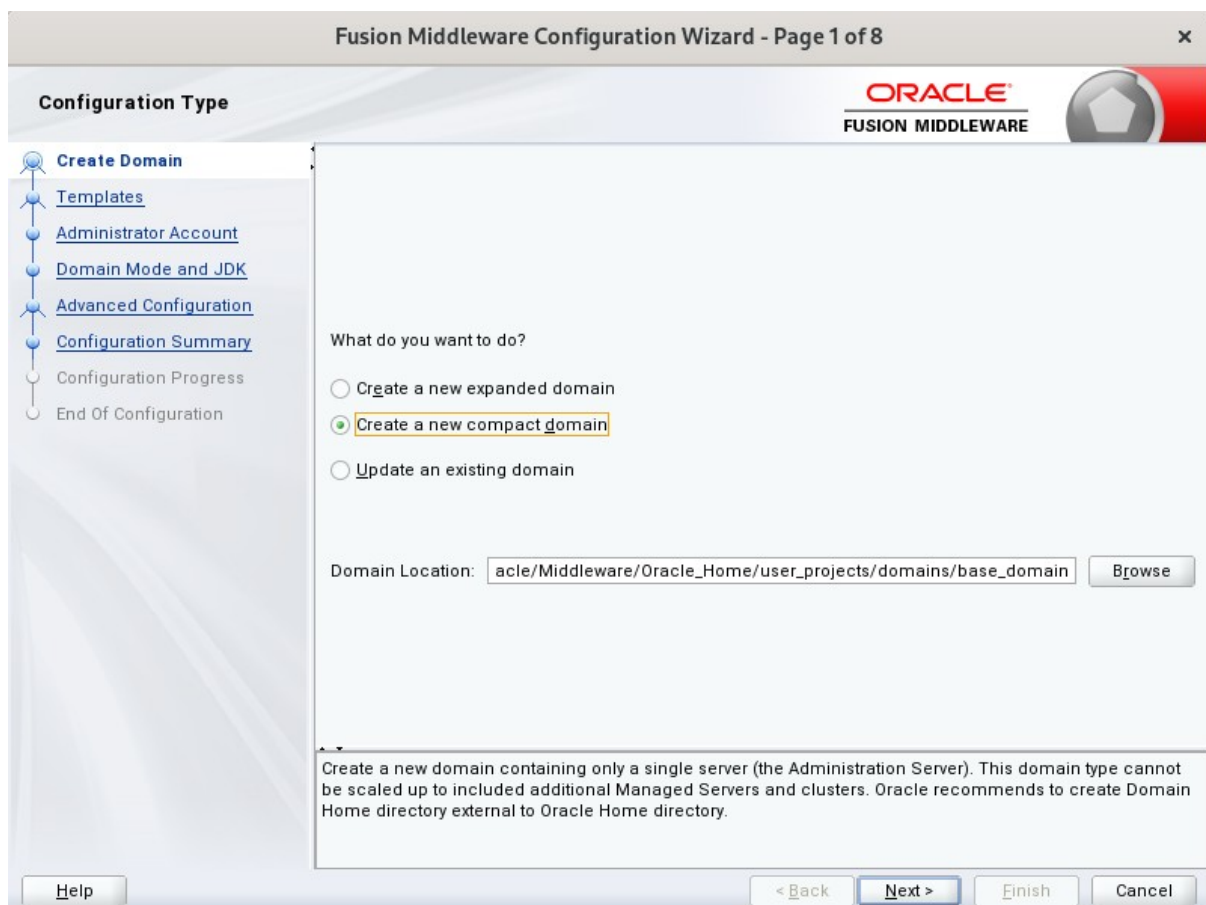
3-1. Go to **ORACLE_HOME/oracle_common/common/bin**. Set the environment variable **CONFIG_JVM_ARGS** to **-Dcom.oracle.cie.config.showProfile=true**. This will activate the compact domain option in the configuration wizard. Then launch the configuration wizard.

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
```

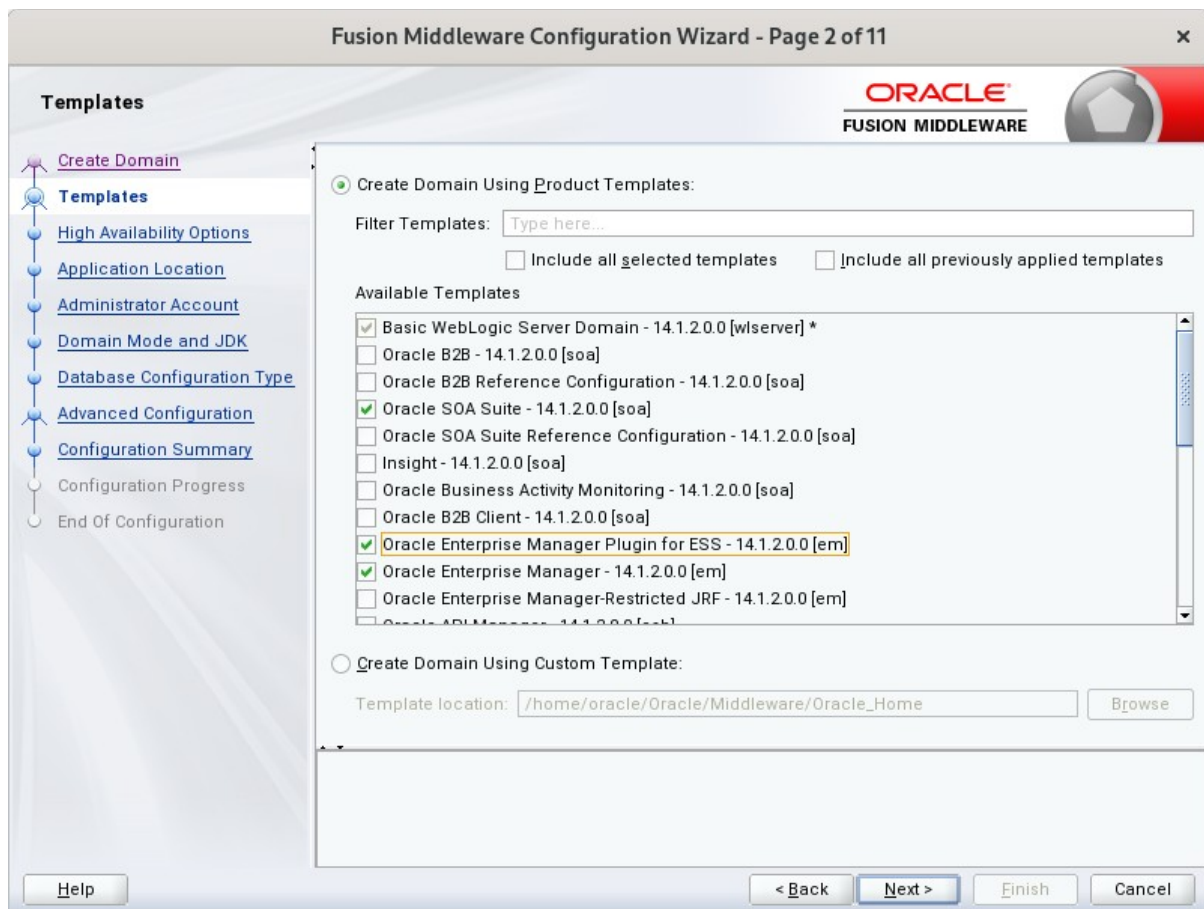
Follow these steps:

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



Click **Next** to continue.

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



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:

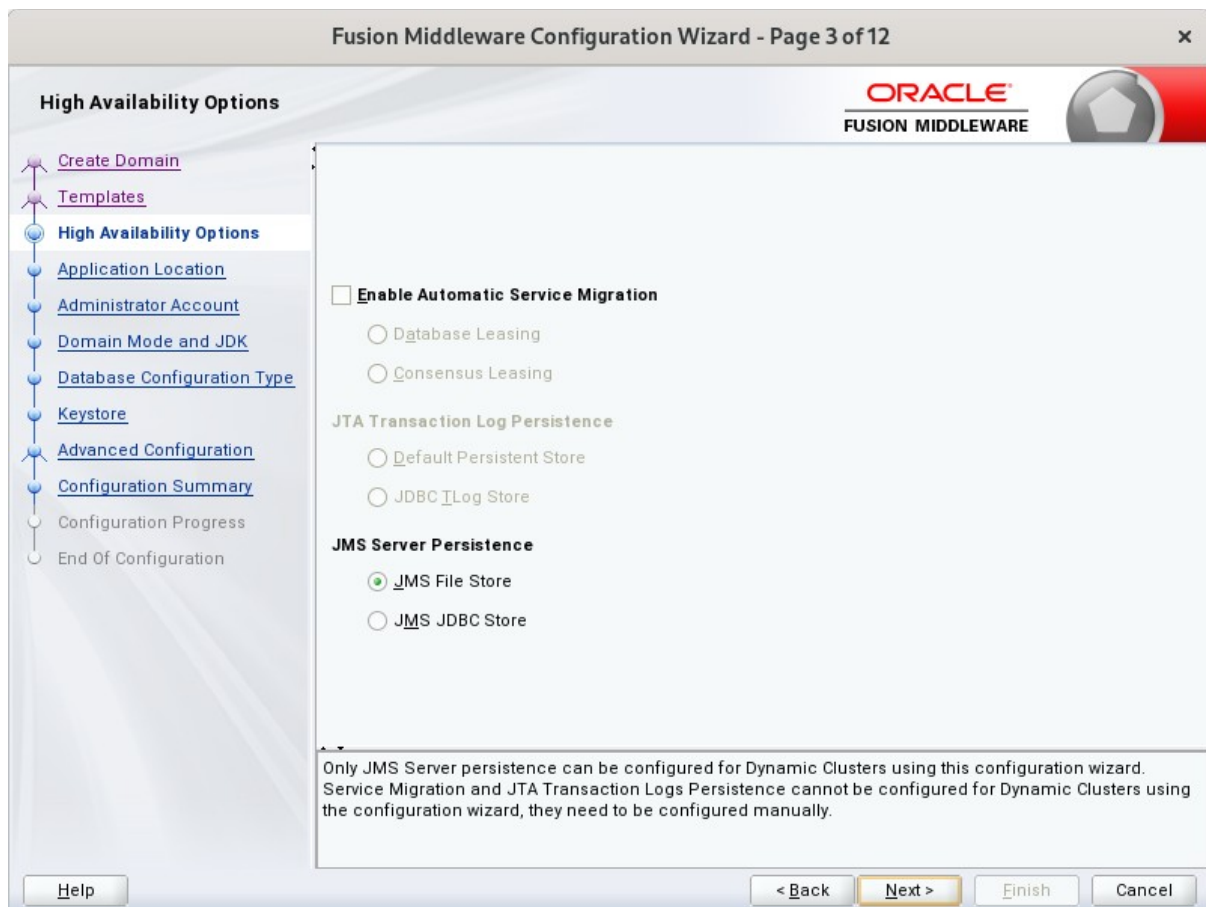
- **Oracle SOA Suite [soa]**

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]**
- **WebLogic Advanced Web Services for JAX-RPC Extension [oracle_common]**
- **Oracle Enterprise Scheduler Service Basic [oracle_common]**
- **Oracle Enterprise Manager Plugin for ESS [em]**

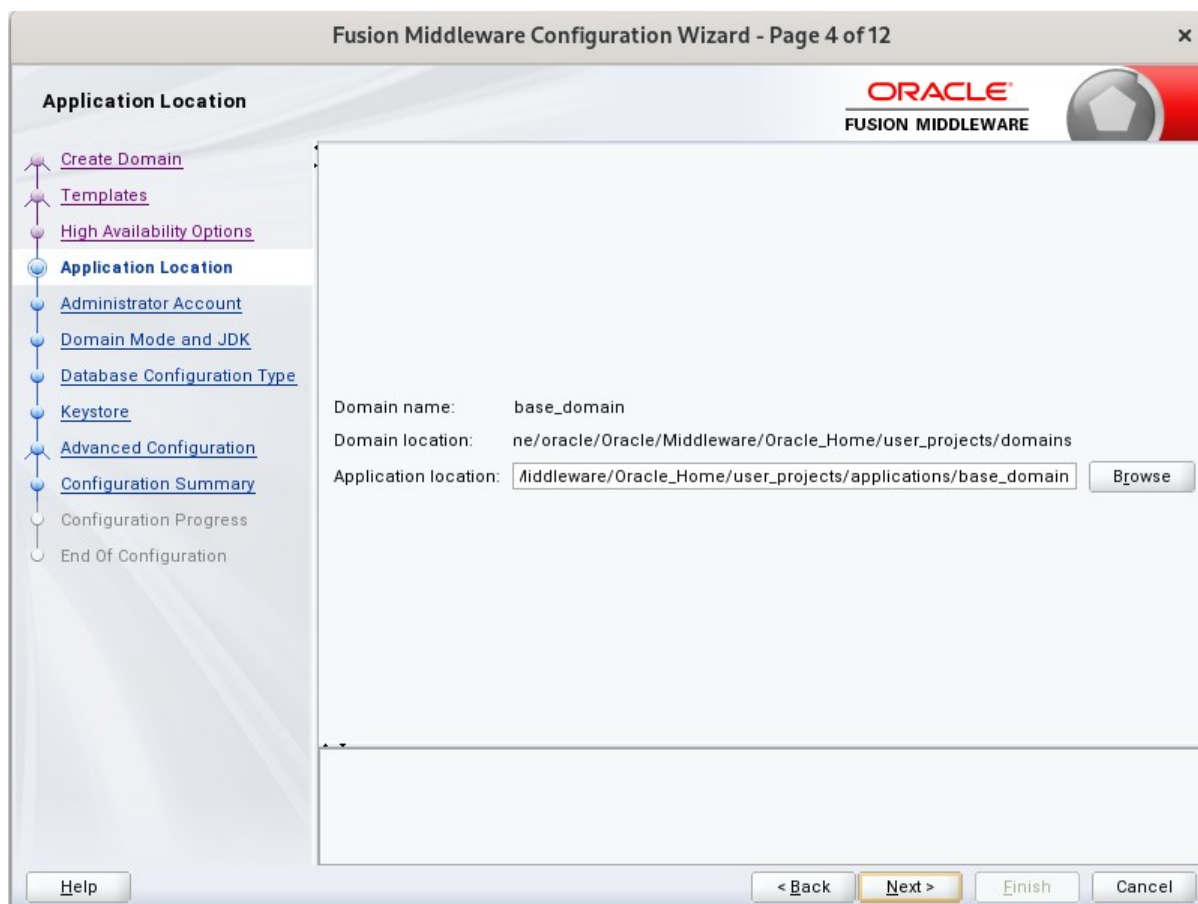
Click **Next** to continue.

3). The **High Availability Options** screen appears.



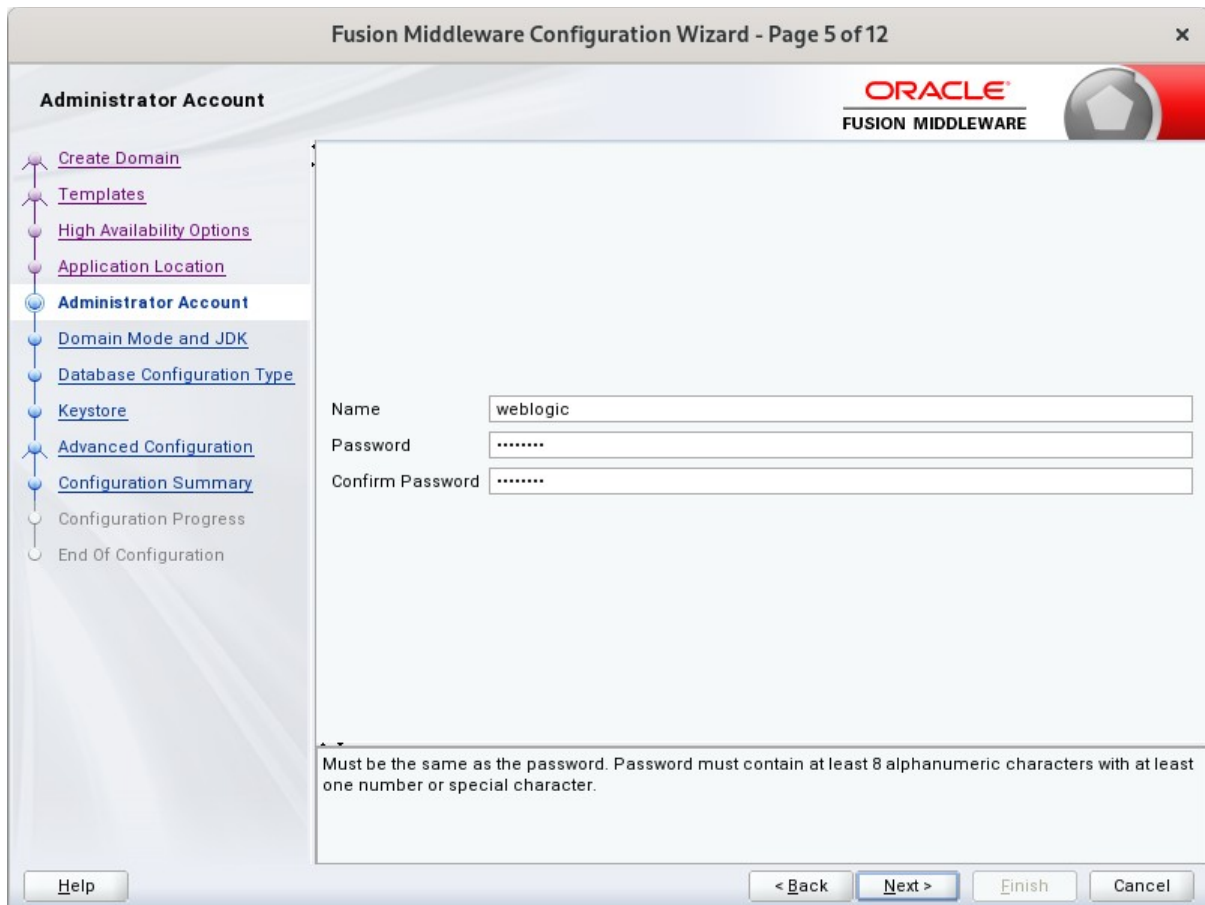
Keep the default value for Application location. Click **Next** to continue.

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



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

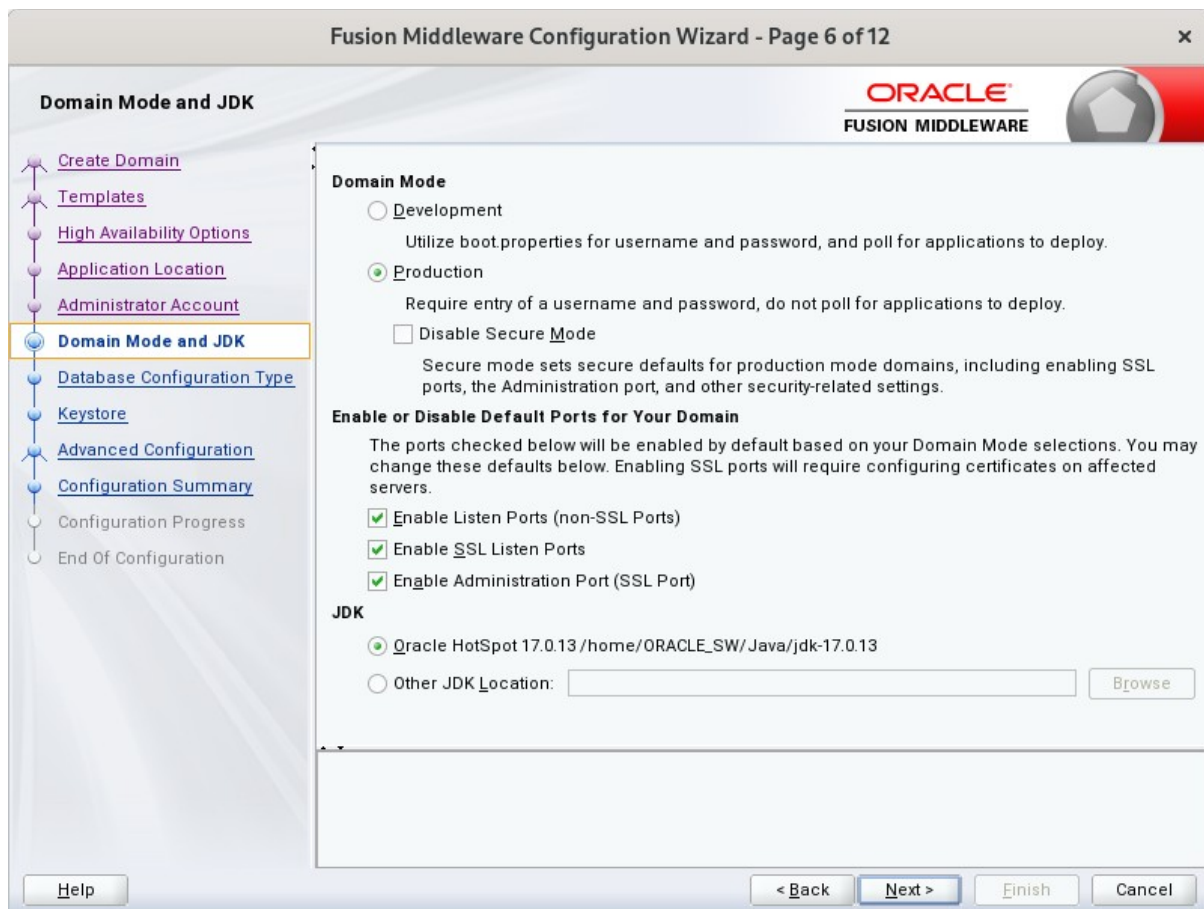
5). The **Administrator Account** screen appears.



The screenshot shows the 'Administrator Account' screen of the Fusion Middleware Configuration Wizard. The window title is 'Fusion Middleware Configuration Wizard - Page 5 of 12'. The Oracle logo and 'FUSION MIDDLEWARE' text are in the top right. A sidebar on the left lists the configuration steps: Create Domain, Templates, High Availability Options, Application Location, Administrator Account (selected), Domain Mode and JDK, Database Configuration Type, Keystore, Advanced Configuration, Configuration Summary, Configuration Progress, and End Of Configuration. The main area contains three input fields: 'Name' with the value 'weblogic', 'Password' with masked characters '.....', and 'Confirm Password' with masked characters '.....'. A note at the bottom states: 'Must be the same as the password. Password must contain at least 8 alphanumeric characters with at least one number or special character.' Navigation buttons at the bottom include 'Help', '< Back', 'Next >', 'Finish', and 'Cancel'.

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

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



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.

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

The screenshot shows the 'Database Configuration Type' screen of the Fusion Middleware Configuration Wizard. The title bar indicates 'Fusion Middleware Configuration Wizard - Page 7 of 14'. The Oracle logo and 'FUSION MIDDLEWARE' text are in the top right. A sidebar on the left lists the configuration steps: Create Domain, Templates, High Availability Options, Application Location, Administrator Account, Domain Mode and JDK, Database Configuration Type (selected), Component Datasources, JDBC Test, Keystore, Advanced Configuration, Configuration Summary, Configuration Progress, and End Of Configuration. The main area is titled 'Specify AutoConfiguration Options Using:' and has three radio buttons: 'RCU Data' (selected), 'Embedded Database (JavaDB)', and 'Manual Configuration'. Below this, a text box explains that the wizard uses the selected connection to automatically configure datasources. There are two sections: 'Connection Parameters' (selected) and 'Connection URL String'. The 'Connection Parameters' section has fields for 'Host Name' (Dell5530), 'DBMS/Service' (susepdb1), 'Port' (1521), 'Schema Owner' (DEV_STB), and 'Schema Password' (masked with dots). There are 'Get RCU Configuration' and 'Cancel' buttons. Below this is a 'Connection Result Log' showing the following messages: 'Connecting to the database server...OK', 'Retrieving schema data from database server...OK', 'Binding local schema components with retrieved data...OK', and 'Successfully Done.'. At the bottom, it says 'Click 'Next' button to continue.'. The bottom of the window has 'Help', '< Back', 'Next >', 'Finish', and 'Cancel' buttons.

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.

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

Fusion Middleware Configuration Wizard - Page 8 of 14

JDBC Component Schema

ORACLE
FUSION MIDDLEWARE

Vendor: Driver:

☐ Connection Parameters ☒ Connection URL String

URL: [Connection Properties](#)

Schema Owner: Schema Password:

Oracle RAC configuration for component schemas:

☐ Convert to GridLink ☐ Convert to RAC multi data source ☐ Don't convert

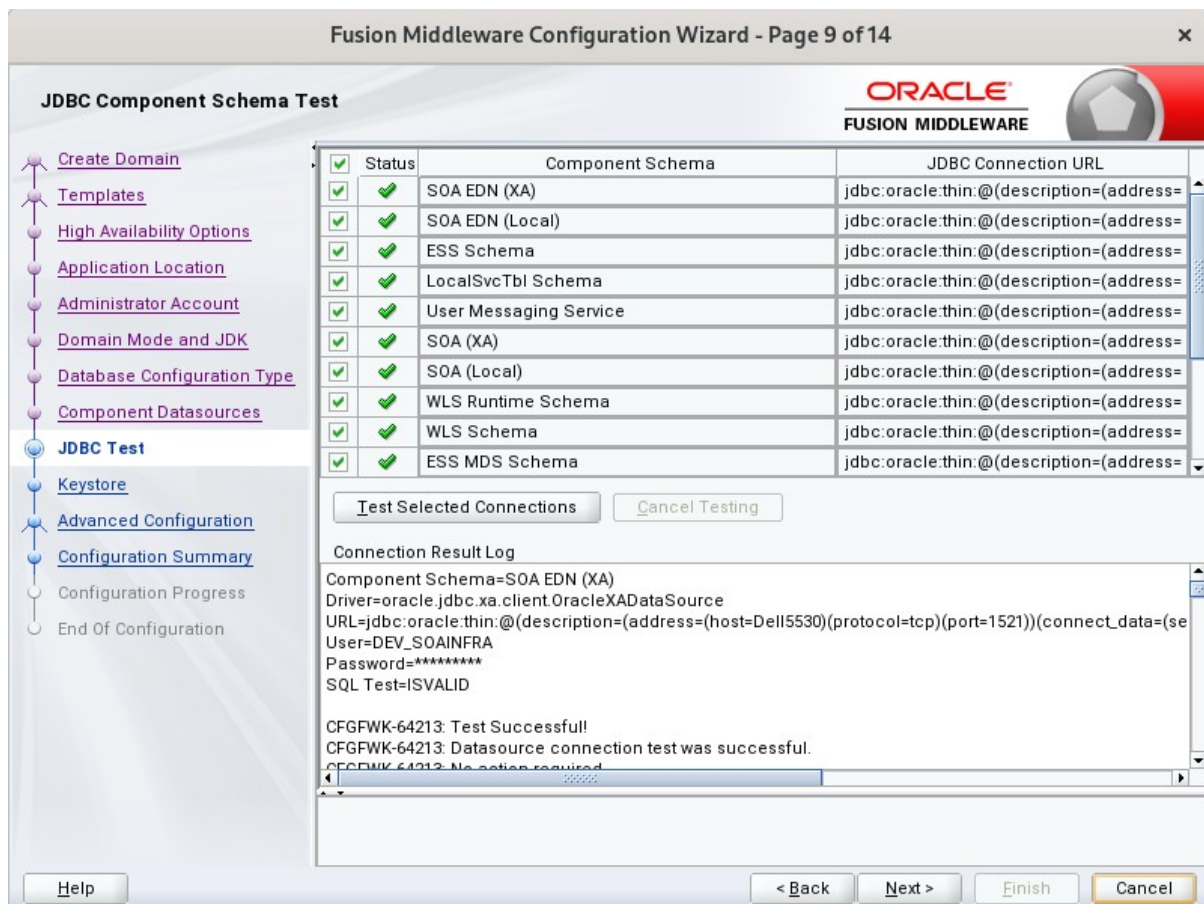
Edits to the data above will affect all checked rows in the table below.

<input type="checkbox"/> Component Schema	URL	Schema Owner	Schema Password
<input type="checkbox"/> SOA EDN (XA)	jdbc:oracle:thin:@(description=(addre	DEV_SOAINFRA	.....
<input type="checkbox"/> SOA EDN (Local)	jdbc:oracle:thin:@(description=(addre	DEV_SOAINFRA	.....
<input type="checkbox"/> ESS Schema	jdbc:oracle:thin:@(description=(addre	DEV_ESS	.....
<input type="checkbox"/> LocalSvcTbl Schema	jdbc:oracle:thin:@(description=(addre	DEV_STB	.....
<input type="checkbox"/> User Messaging Servic	jdbc:oracle:thin:@(description=(addre	DEV_UMS	.....
<input type="checkbox"/> SOA (XA)	jdbc:oracle:thin:@(description=(addre	DEV_SOAINFRA	.....
<input type="checkbox"/> SOA (Local)	jdbc:oracle:thin:@(description=(addre	DEV_SOAINFRA	.....
<input type="checkbox"/> WLS Runtime Schema	jdbc:oracle:thin:@(description=(addre	DEV_WLS_RUN	.....

Help

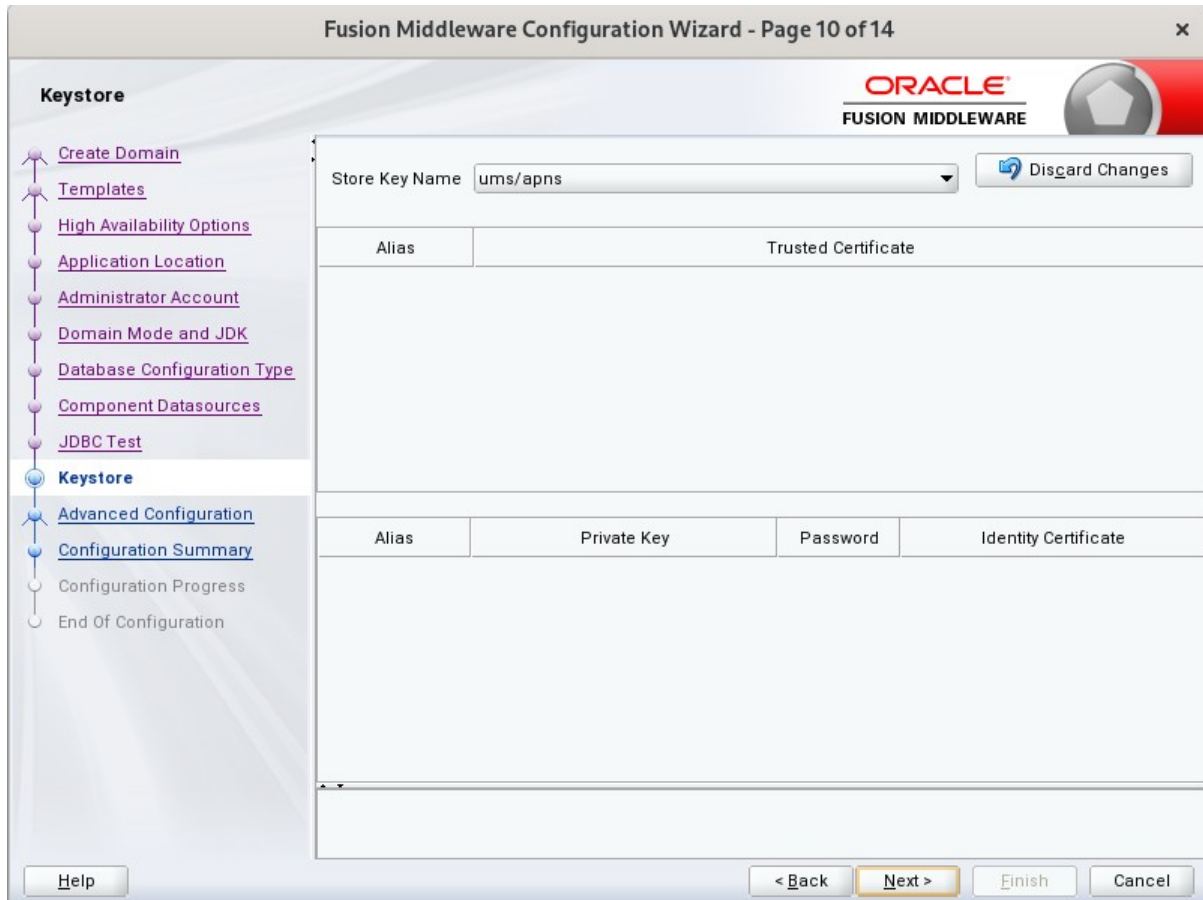
Our instructions assume each Repository schema uses the same password. If not, enter the correct schema passwords. Click **Next** to continue.

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



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

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



The screenshot shows the 'Keystore' screen of the Fusion Middleware Configuration Wizard. The title bar reads 'Fusion Middleware Configuration Wizard - Page 10 of 14'. The Oracle Fusion Middleware logo is in the top right. On the left, a navigation pane lists steps: 'Create Domain', 'Templates', 'High Availability Options', 'Application Location', 'Administrator Account', 'Domain Mode and JDK', 'Database Configuration Type', 'Component Datasources', 'JDBC Test', 'Keystore' (selected), 'Advanced Configuration', 'Configuration Summary', 'Configuration Progress', and 'End Of Configuration'. The main area has a 'Store Key Name' dropdown set to 'ums/apns' and a 'Discard Changes' button. Below are two tables for certificate management.

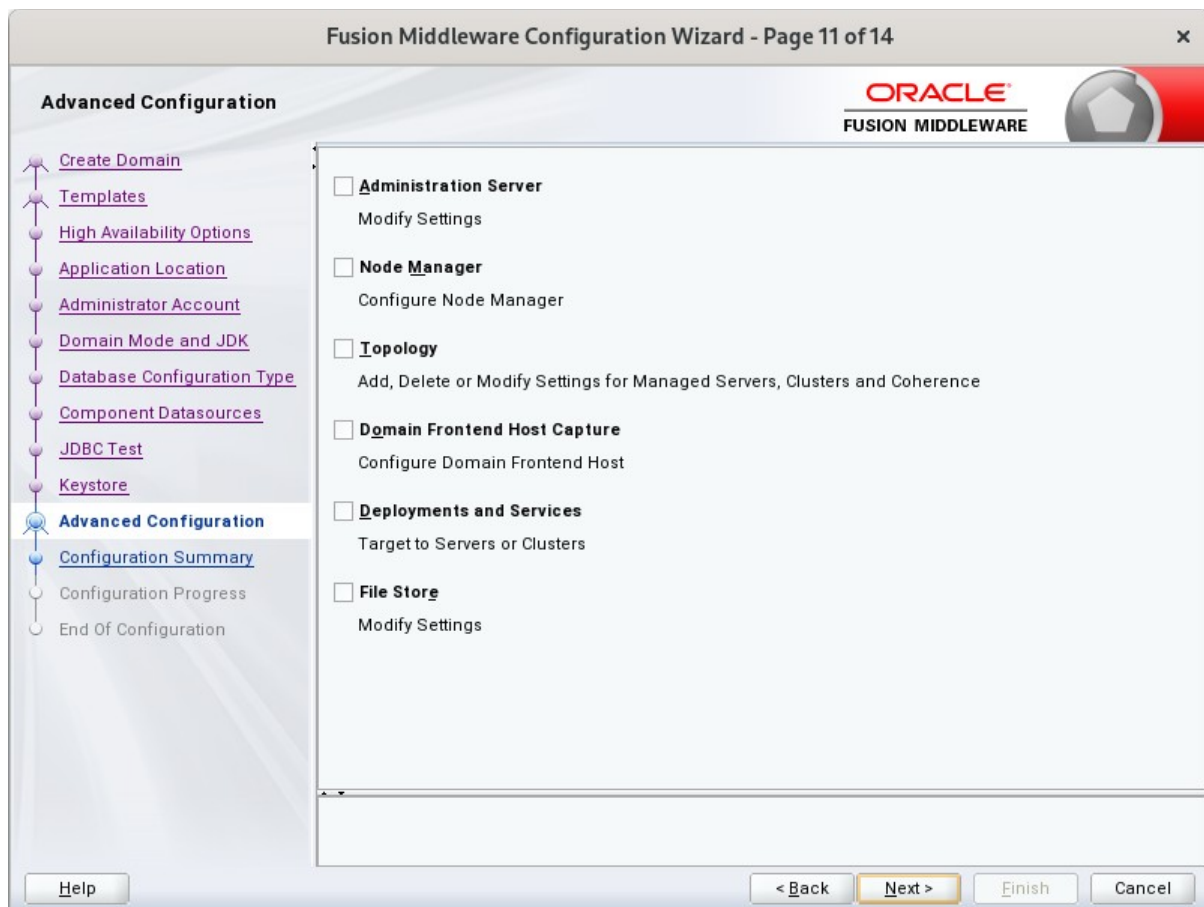
Alias	Trusted Certificate

Alias	Private Key	Password	Identity Certificate

At the bottom, there are buttons for '< Back', 'Next >', 'Finish', and 'Cancel'. A 'Help' button is located in the bottom left corner of the wizard area.

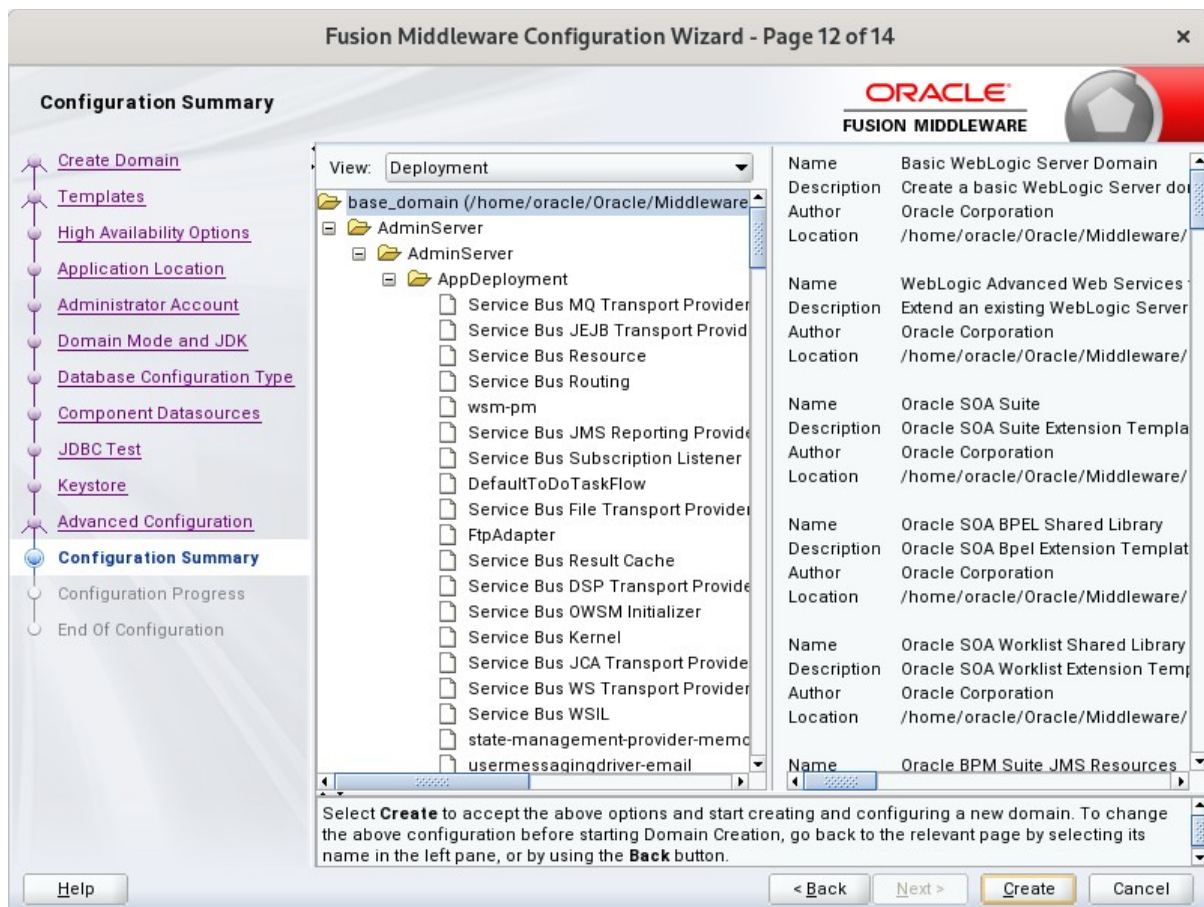
Accept the defaults and click **Next** to continue.

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



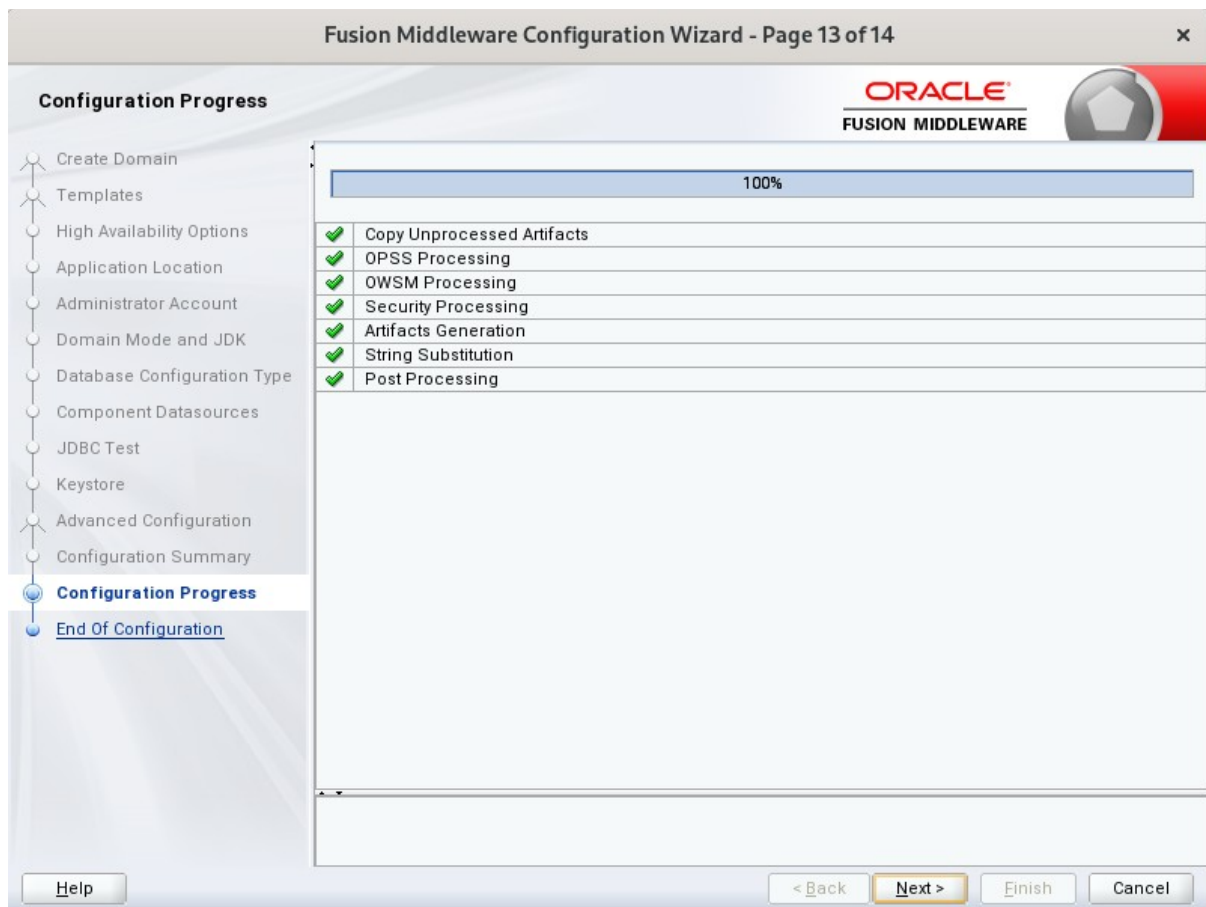
On the Advanced Configuration screen, you do not need any advanced configuration for a compact domain. You can skip through the Advanced Configuration screen without selecting anything. Click **Next** to continue.

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



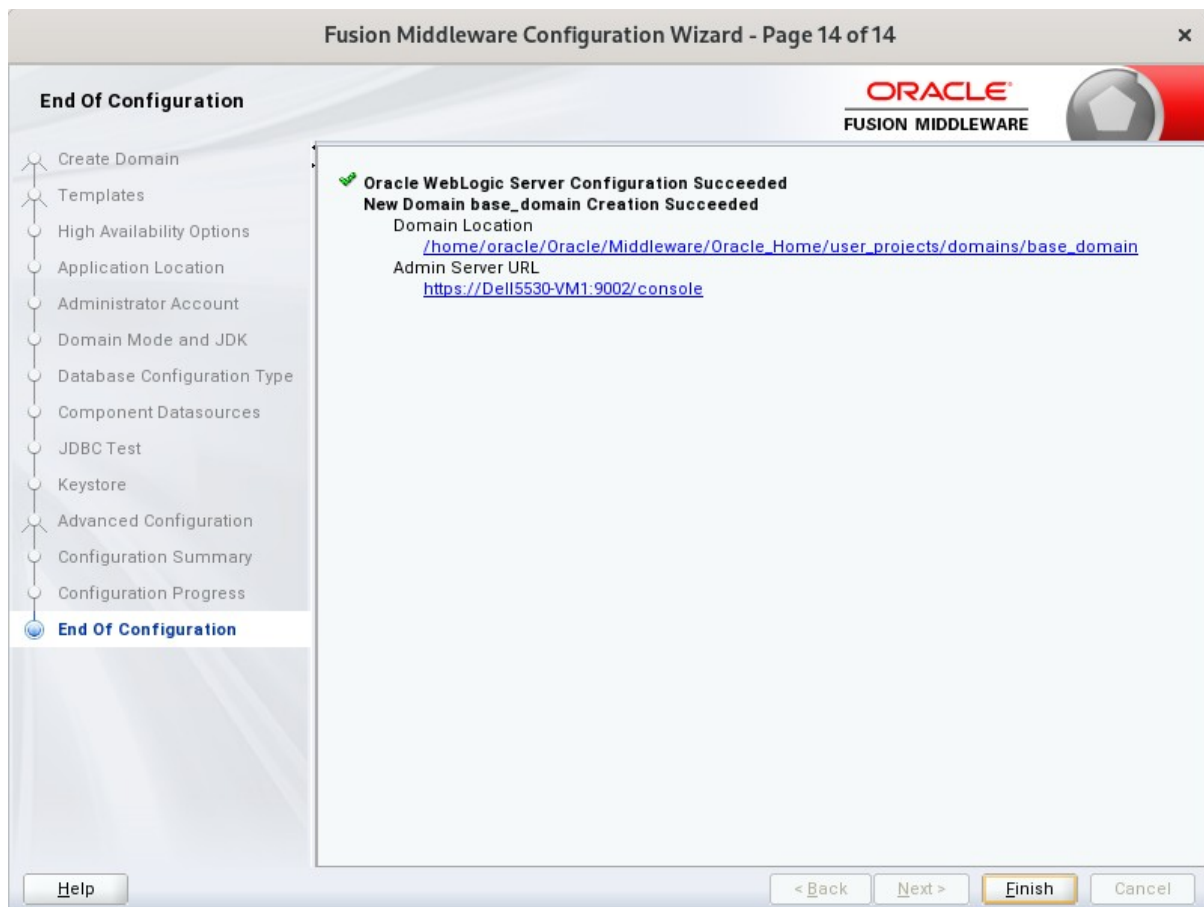
Select **Create** to accept the above options and start creating and configuring a new domain.

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



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

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



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

4. Verifying Oracle SOA Suite 14c 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`.

```

oracle@Dell5530-VM1:~/ns/base_domain/bin
oracle@Dell5530-VM1:~/common/common/bin x oracle@Dell5530-VM1:~/ns/base_domain/bin x
<Jun 4, 2025, 9:56:14,904 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "DefaultSecure" is now listening on 192.168.0.100:7002 for protocols iiops, t3s, ldaps, https.>
<Jun 4, 2025, 9:56:14,905 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "DefaultSecure[1]" is now listening on 0:0:0:0:0:0:0:1%lo:7002 for protocols iiops, t3s, ldaps, https.>
<Jun 4, 2025, 9:56:14,905 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default[1]" is now listening on 0:0:0:0:0:0:0:1%lo:7001 for protocols iiop, t3, ldap, snmp, http.>
<Jun 4, 2025, 9:56:14,906 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000398> <Secure mode enabled for WebLogic Server "Admin Server".>
<Jun 4, 2025, 9:56:14,906 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000329> <Started the WebLogic Server Administration Server "AdminServer" for domain "base_domain" running in production mode.>
<Jun 4, 2025, 9:56:14,919 PM China Standard Time> <Warning> <Security> <BEA-091033> <No dedicated network channel configured for HTTPS traffic. SOLUTION: Oracle recommends creating a network channel for only HTTPS traffic for externally available applications. Configure your firewall so that the network channel is available externally, and that the default network channel and other customer internal channels are only accessible internally.>
<Jun 4, 2025, 9:56:14,921 PM China Standard Time> <Warning> <Security> <BEA-091003> <Secure Mode requires that users in the Administrators group do not have obvious user names. SOLUTION: Change the user name "weblogic" so it is not a commonly used administrator name.>
<Jun 4, 2025, 9:56:22,278 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000360> <The server started in RUNNING mode.>
<Jun 4, 2025, 9:56:22,290 PM China Standard Time> <Warning> <WorkManager> <BEA-002919> <Unable to find a Work Manager with name ums_work_manager. Dispatch policy ums_work_manager will map to the default Work Manager for the application usermessagingserver>
====> ResourceBundleListFromConfig topDir : []
====> found 0 SOA composites to deploy in group 1 . Using 5 threads for composite load. composite count from dcManager : 0 CompositeLazyLoading enabled. CompositeLazyDeployment disabled.
deploying 0 composites took 0 ms
----->deploying 0 composites took 6 ms
<Jun 4, 2025, 9:56:22,304 PM China Standard Time> <Warning> <WorkManager> <BEA-002919> <Unable to find a Work Manager with name ums_work_manager. Dispatch policy ums_work_manager will map to the default Work Manager for the application usermessagingserver>
SOA server state change - current state STATE_DONE_DEPLOYING new server state STATE_RUNNING
SOA server state change - current state STATE_DONE_DEPLOYING new server state STATE_RUNNING
<Jun 4, 2025, 9:56:22,315 PM China Standard Time> <Error> <oracle.integration.platform.blocks.event.jms2.EdnEventBus> <BEA-000000> <!!! INFO only !!! EdnEventBus for EHF Handler: dataSourceName: jdbc/SOADataSource, dataSource: weblogic.jdbc.common.internal.RmiDataSource@47524ca8>
<Jun 4, 2025, 9:56:22,336 PM China Standard Time> <Warning> <WorkManager> <BEA-002919> <Unable to find a Work Manager with name ums_work_manager. Dispatch policy ums_work_manager will map to the default Work Manager for the application usermessagingserver>
***** EDN AQ Queues [EDN_AQJMS_TOPIC, EDN_DOO_AQJMS_TOPIC, EDN_FIN_AQJMS_TOPIC, EDN_CRM_AQJMS_TOPIC, EDN_HCM_AQJMS_TOPIC, EDN_PRC_AQJMS_TOPIC, EDN_MRK_AQJMS_TOPIC, EDN_MKT_AQJMS_TOPIC, EDN_SCM_AQJMS_TOPIC] usingShradedQueues? false
Wed Jun 04 21:56:22 CST 2025 updateEdnPollingOptimizationHelper isAQJMS=false jmsType=WLJMS
Wed Jun 04 21:56:22 CST 2025 EdnPollingOptimization Not Enabled
<Jun 4, 2025, 9:56:22,444 PM China Standard Time> <Warning> <WorkManager> <BEA-002919> <Unable to find a Work Manager with name ums_work_manager. Dispatch policy ums_work_manager will map to the default Work Manager for the application usermessagingserver>
<Jun 4, 2025, 9:56:22,450 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to RUNNING.>

```

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

Server state changed to RUNNING.

4-3. Checking Oracle SOA Suite Product URLs.

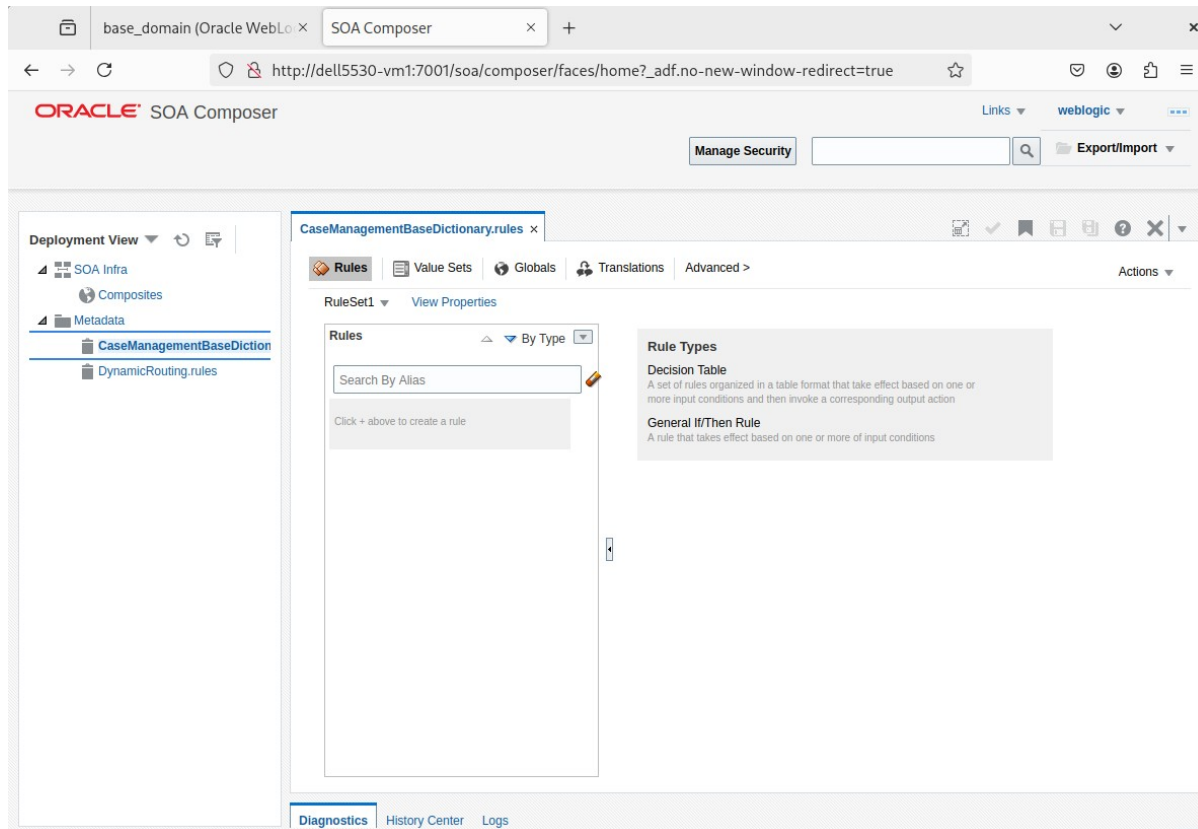
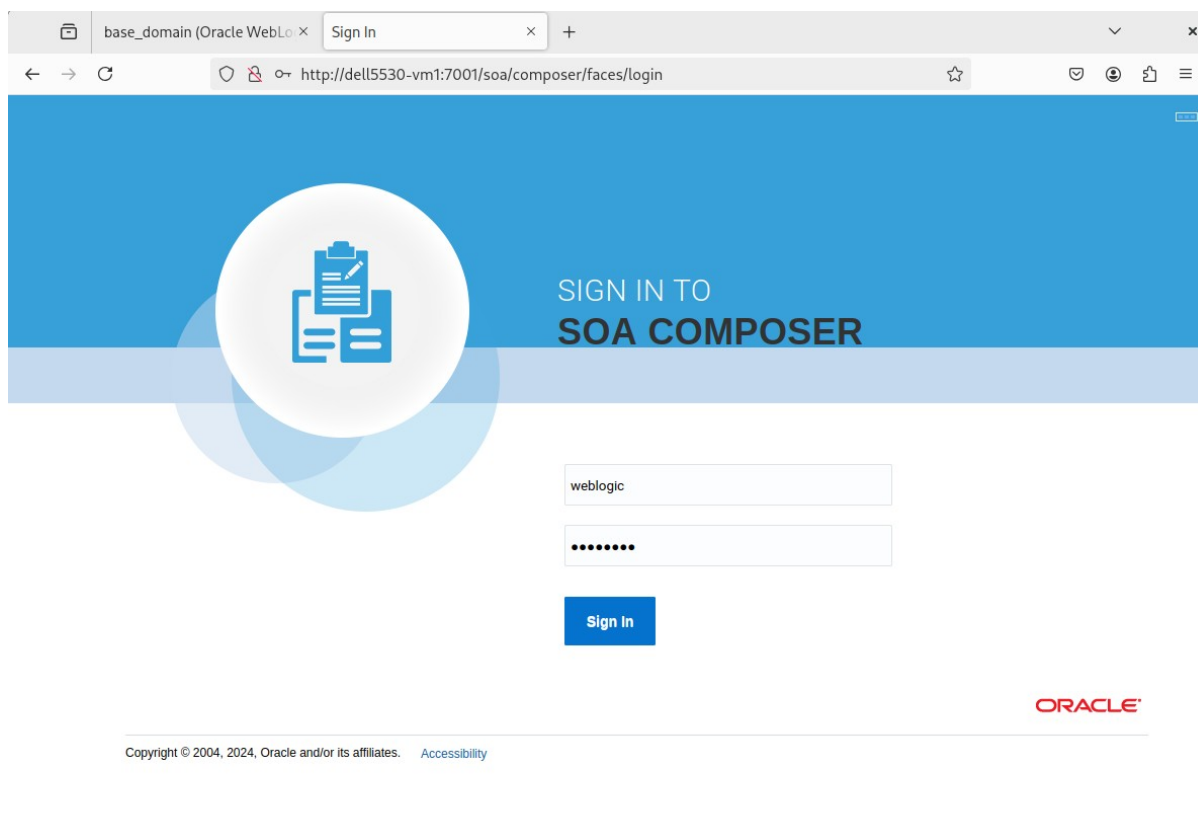
1). Access to Enterprise Manager Console.

Login Page:

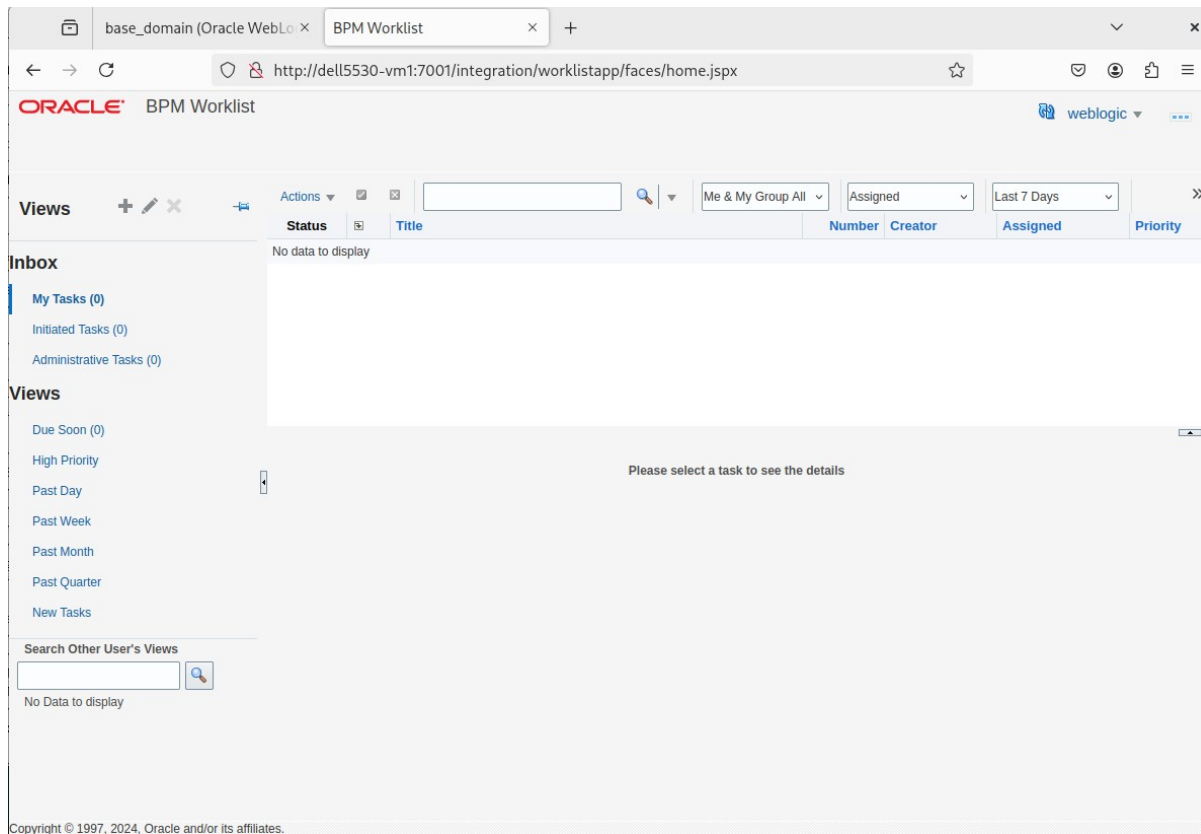
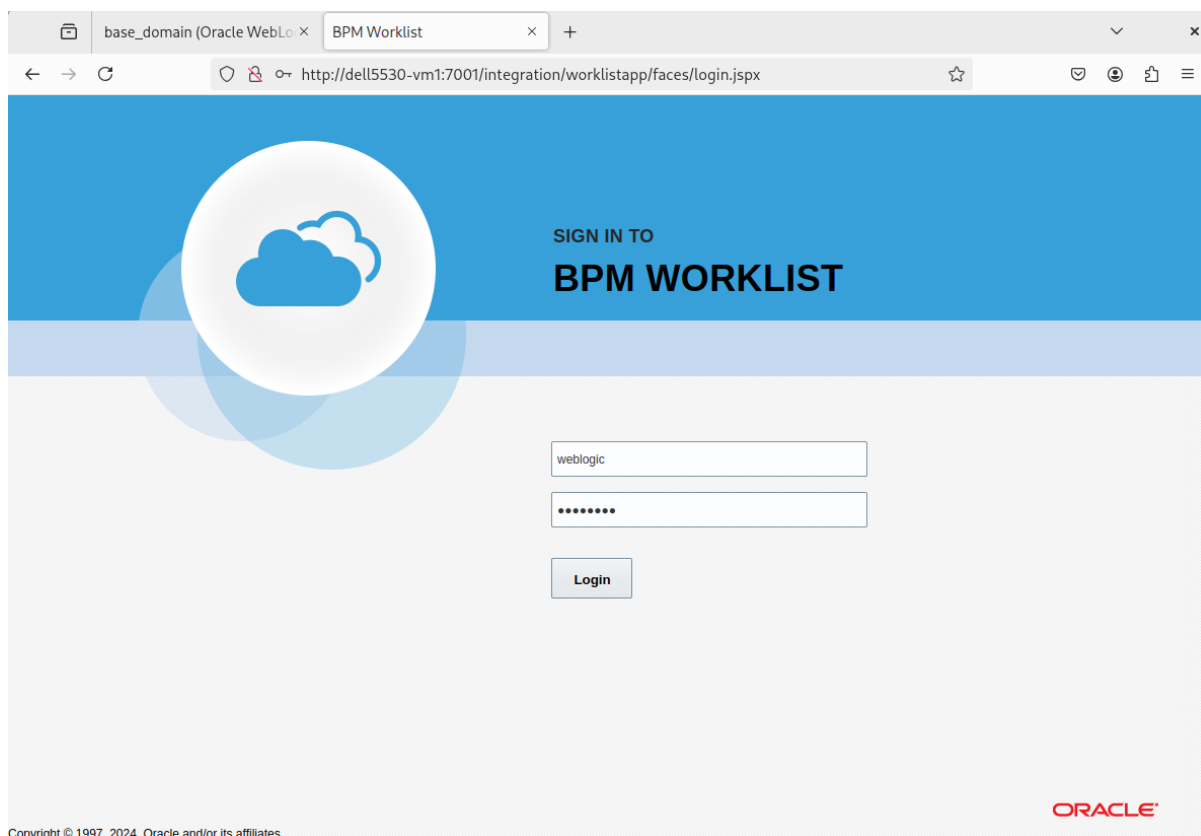
Home Page:

Name	Status	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)	Up			Running	OK	

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



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



2). Access to Administration Server Console through WebLogic Remote Console.

Login Page as shown below:

WebLogic Server 14.1.2

ORACLE
WebLogic Server Sign In
Welcome

Username:
weblogic

Password:
.....

Sign In

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Viewing the summary of servers:

WebLogic Remote Console - ServerRuntimes

File Edit View Help

WebLogic Remote Console 2.4.16

Security warnings detected. (View/Refresh Report)

Monitoring Tree (SOA Suite on SLES15 SP7)

Servers

Customize Table New Dashboard

A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration. This page includes the monitoring data for each configured and/or running server in the current WebLogic Server domain.

Note: a managed server's State is 'Unreachable' when the administration server is unable to communicate with it. You can navigate to the managed server's page to get more information about its state. You can also customize this table to display the 'Server Life Cycle State' column, however doing so negates the 'Unreachable' state.

Start Resume Suspend Shutdown Restart SSL

Name	State	Current Machine	Restart?	Complete Reqs	Open Sockets
AdminServer	Running		false	158053	4

Total Rows: 1

3). Connecting JDeveloper to the Compact Domain.

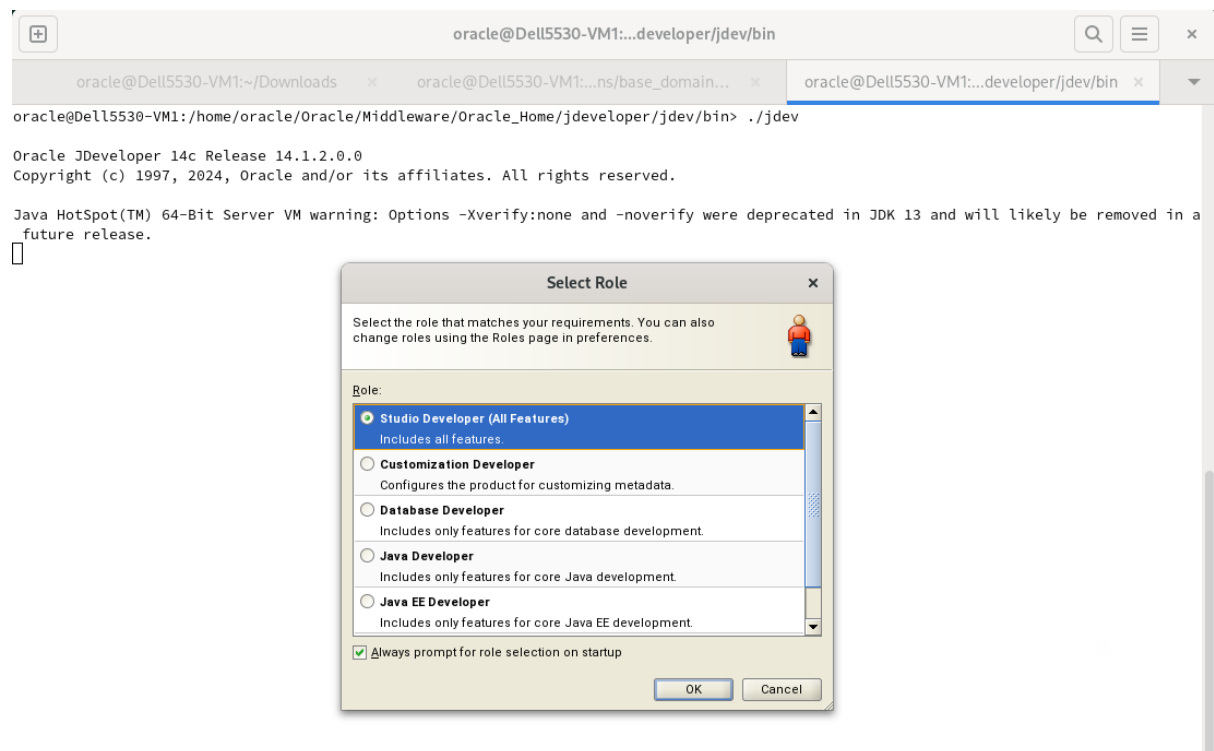
Launch Oracle JDeveloper with the appropriate command.

Ex:

```
cd $ORACLE_HOME/jdeveloper/jdev/bin
./jdev
```

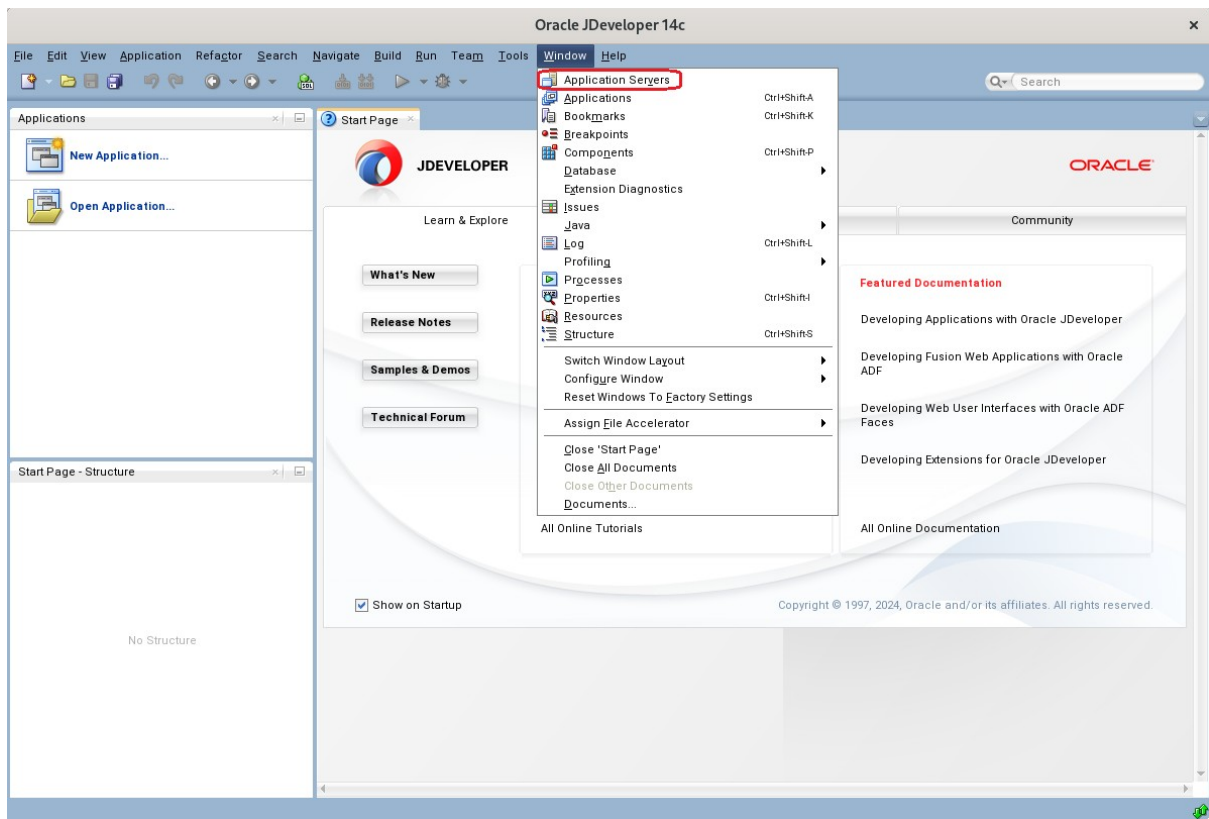
Follow these steps:

a1). Select Role.

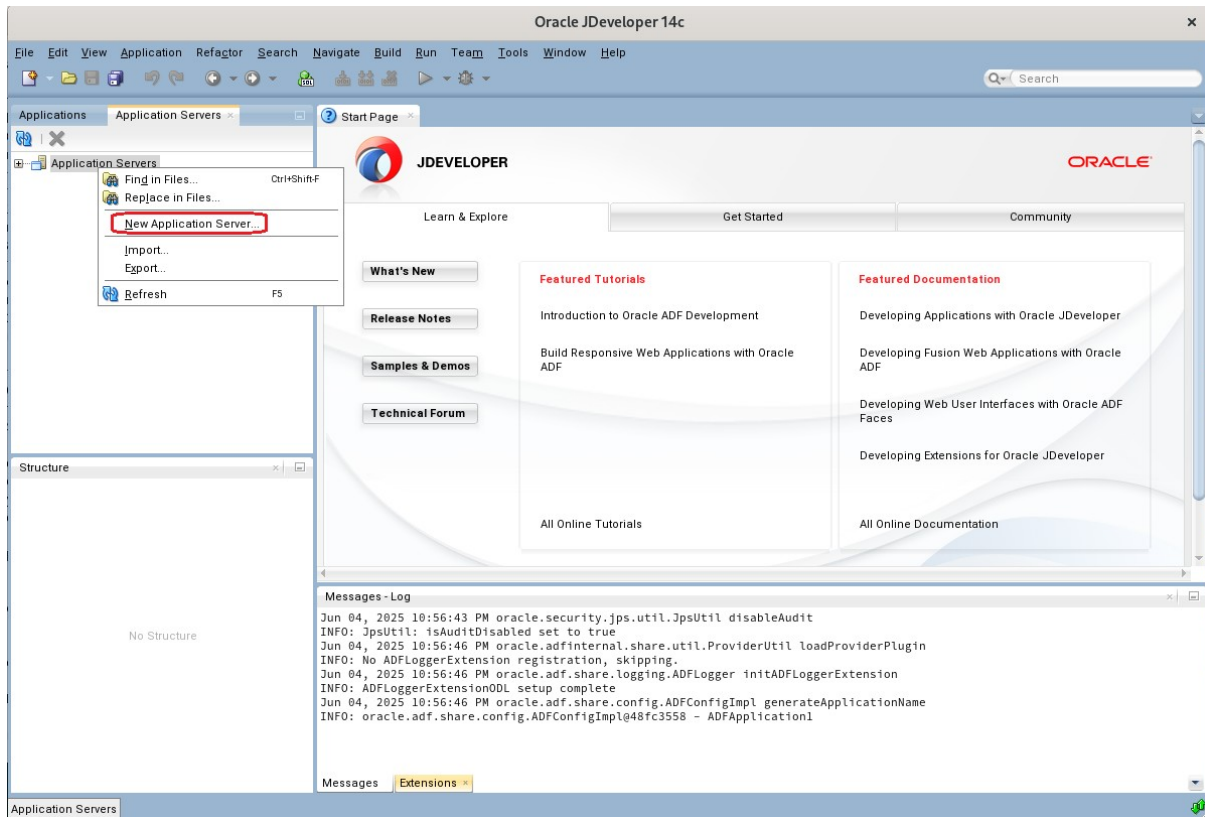


Select the role that matches your requirements. Click **OK** to continue.

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

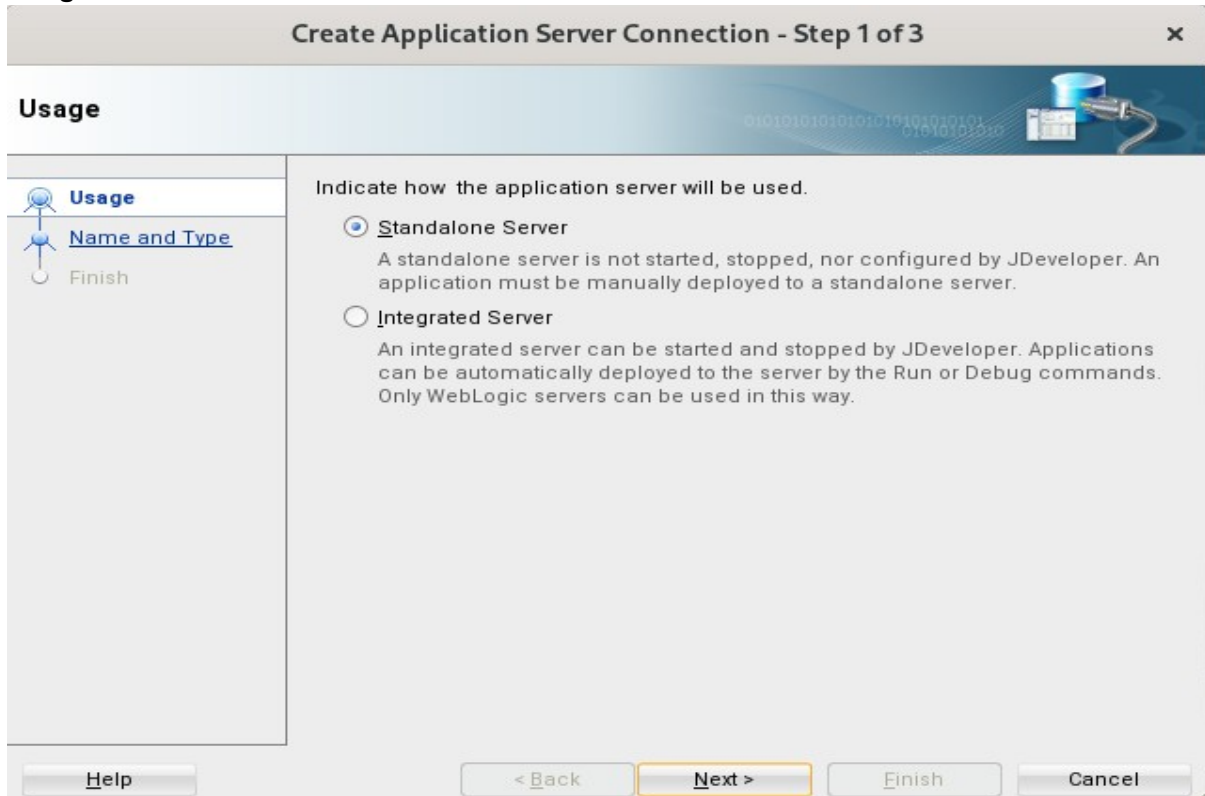


a3). Right-click on **Application Servers** in the Application Server Navigator. Select **New Application Server** from the drop-down menu to launch the **Create Application Server Connection** wizard.



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

Usage screen.



The screenshot shows the 'Create Application Server Connection - Step 1 of 3' dialog box. The title bar is grey with a close button. The main area has a blue header with the title 'Usage' and a decorative background with binary code and a server icon. On the left, a vertical pane shows three steps: 'Usage' (selected with a blue circle), 'Name and Type' (with a blue circle and a right-pointing arrow), and 'Finish' (with a grey circle). The main content area is titled 'Indicate how the application server will be used.' and contains two radio button options. The first option, 'Standalone Server', is selected and includes a description: 'A standalone server is not started, stopped, nor configured by JDeveloper. An application must be manually deployed to a standalone server.' The second option, 'Integrated Server', is unselected and includes a description: 'An integrated server can be started and stopped by JDeveloper. Applications can be automatically deployed to the server by the Run or Debug commands. Only WebLogic servers can be used in this way.' At the bottom, there are four buttons: 'Help', '< Back', 'Next >' (highlighted with a yellow border), and 'Finish'. A 'Cancel' button is also present on the right.

Create Application Server Connection - Step 1 of 3

Usage

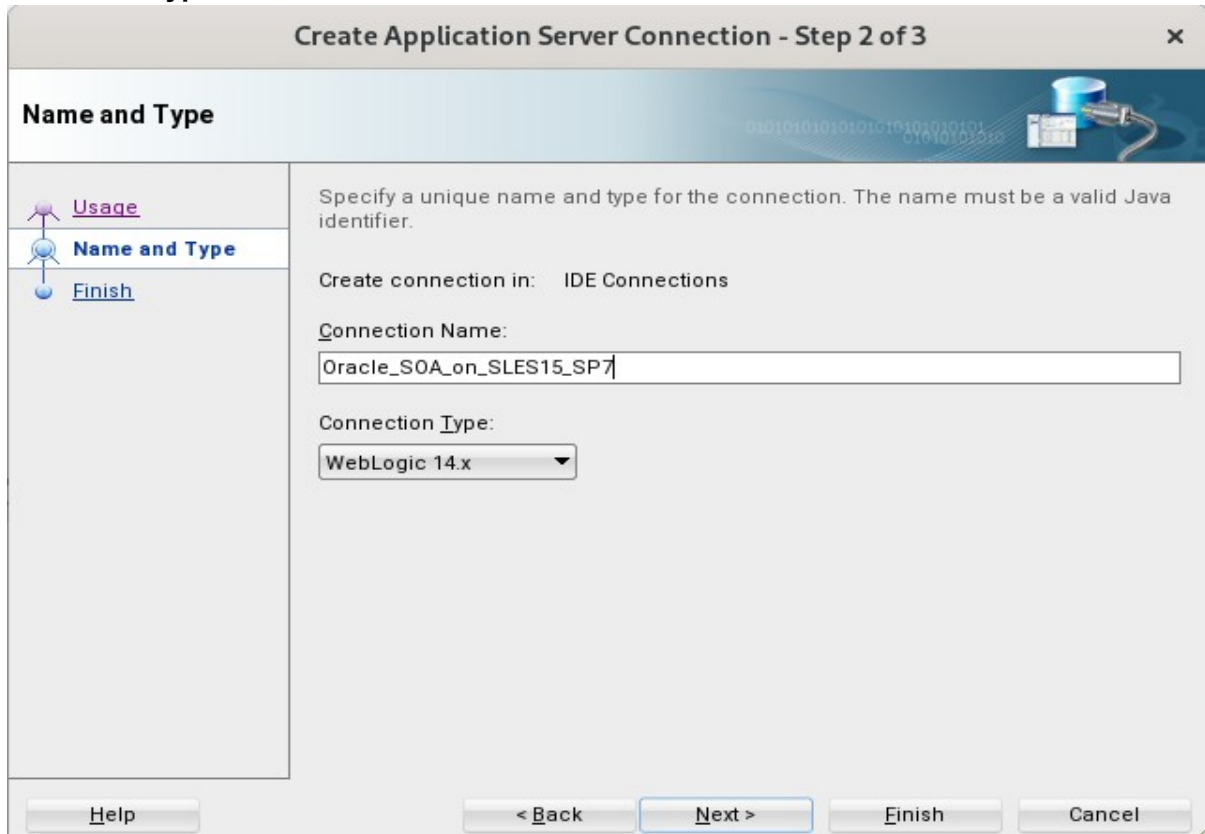
Indicate how the application server will be used.

☒ **Standalone Server**
A standalone server is not started, stopped, nor configured by JDeveloper. An application must be manually deployed to a standalone server.

☐ **Integrated Server**
An integrated server can be started and stopped by JDeveloper. Applications can be automatically deployed to the server by the Run or Debug commands. Only WebLogic servers can be used in this way.

Help < Back Next > Finish Cancel

Name and Type screen.



The screenshot shows the 'Create Application Server Connection - Step 2 of 3' dialog box. The title bar is grey with a close button. The main area has a blue header with the title 'Name and Type' and a decorative background with binary code and a server icon. On the left, a vertical pane shows three steps: 'Usage' (with a grey circle), 'Name and Type' (selected with a blue circle and a right-pointing arrow), and 'Finish' (with a blue circle). The main content area is titled 'Specify a unique name and type for the connection. The name must be a valid Java identifier.' and contains the following fields: 'Create connection in:' with the value 'IDE Connections', 'Connection Name:' with a text box containing 'Oracle_SOA_on_SLES15_SP7', and 'Connection Type:' with a dropdown menu showing 'WebLogic 14.x'. At the bottom, there are four buttons: 'Help', '< Back', 'Next >' (highlighted with a blue border), and 'Finish'. A 'Cancel' button is also present on the right.

Create Application Server Connection - Step 2 of 3

Name and Type

Specify a unique name and type for the connection. The name must be a valid Java identifier.

Create connection in: IDE Connections

Connection Name:
Oracle_SOA_on_SLES15_SP7

Connection Type:
WebLogic 14.x

Help < Back Next > Finish Cancel

Authentication screen.

Create Application Server Connection - Step 3 of 6

Authentication

Usage

Name and Type

Authentication

Configuration

Test

Finish

Specify a username and password to authenticate the connection.

Username:

weblogic

Password:

Help

< Back

Next >

Finish

Cancel

Configuration screen.

Create Application Server Connection - Step 4 of 6

Configuration

Usage

Name and Type

Authentication

Configuration

Test

Finish

WebLogic Server connections use a host name and port to establish a connection. The Domain of the target will be verified

WebLogic Hostname (Administration Server):
Dell5530-VM1

Port: 7001 SSL Port: 9002

☒ Always use SSL

WebLogic Domain:
base_domain

☐ Always use Rest

Help

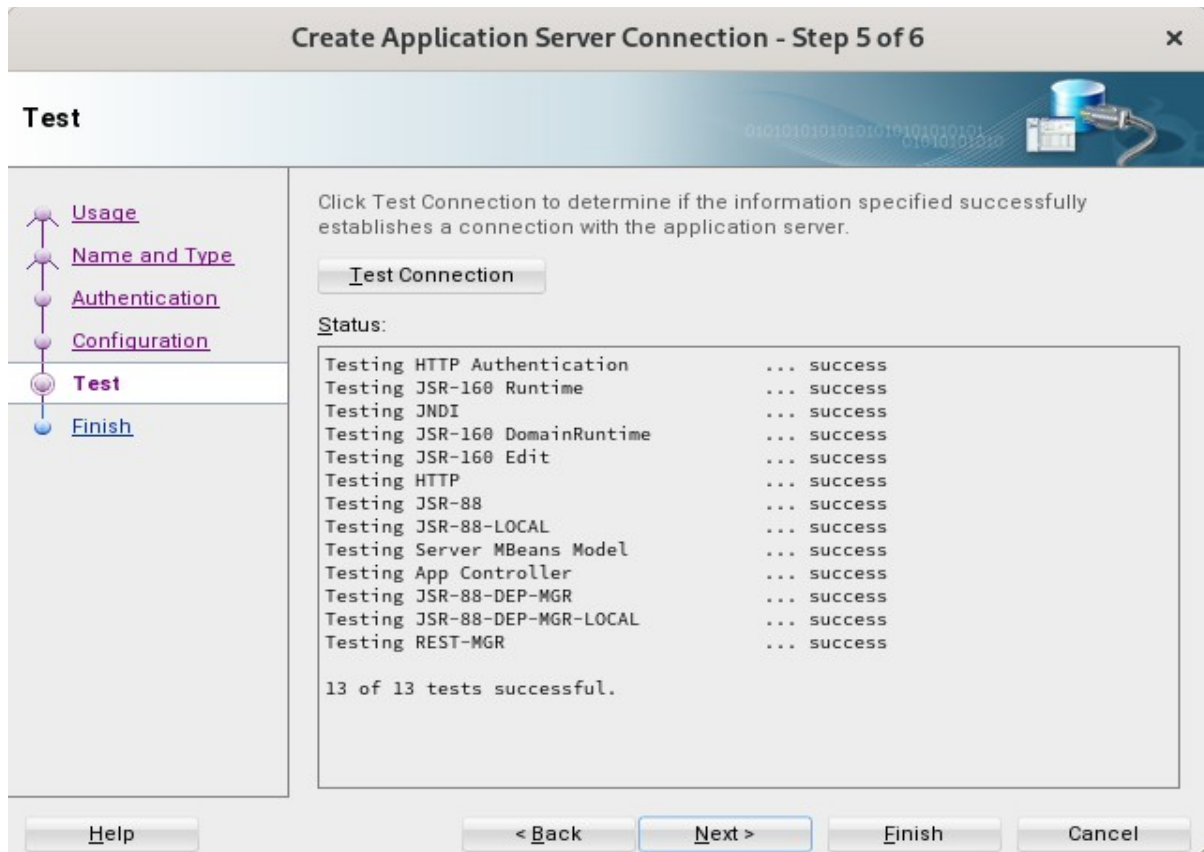
< Back

Next >

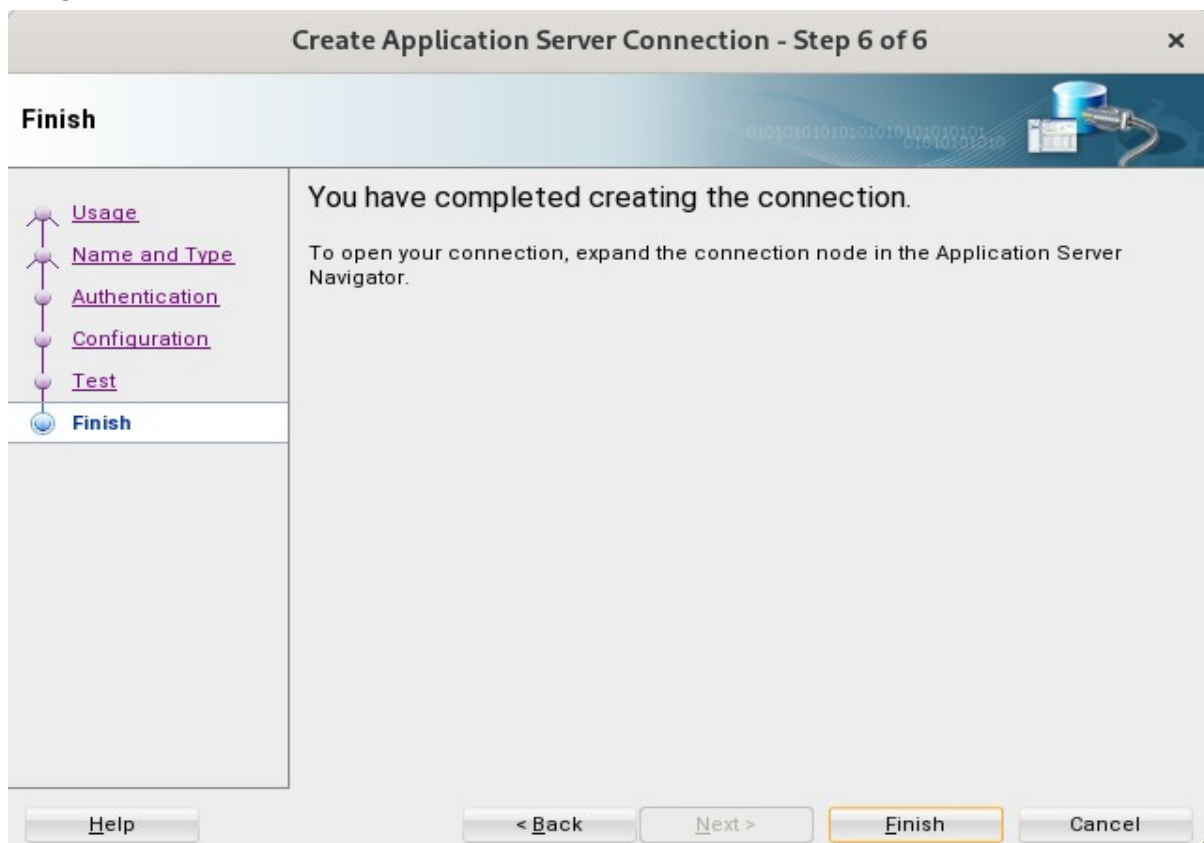
Finish

Cancel

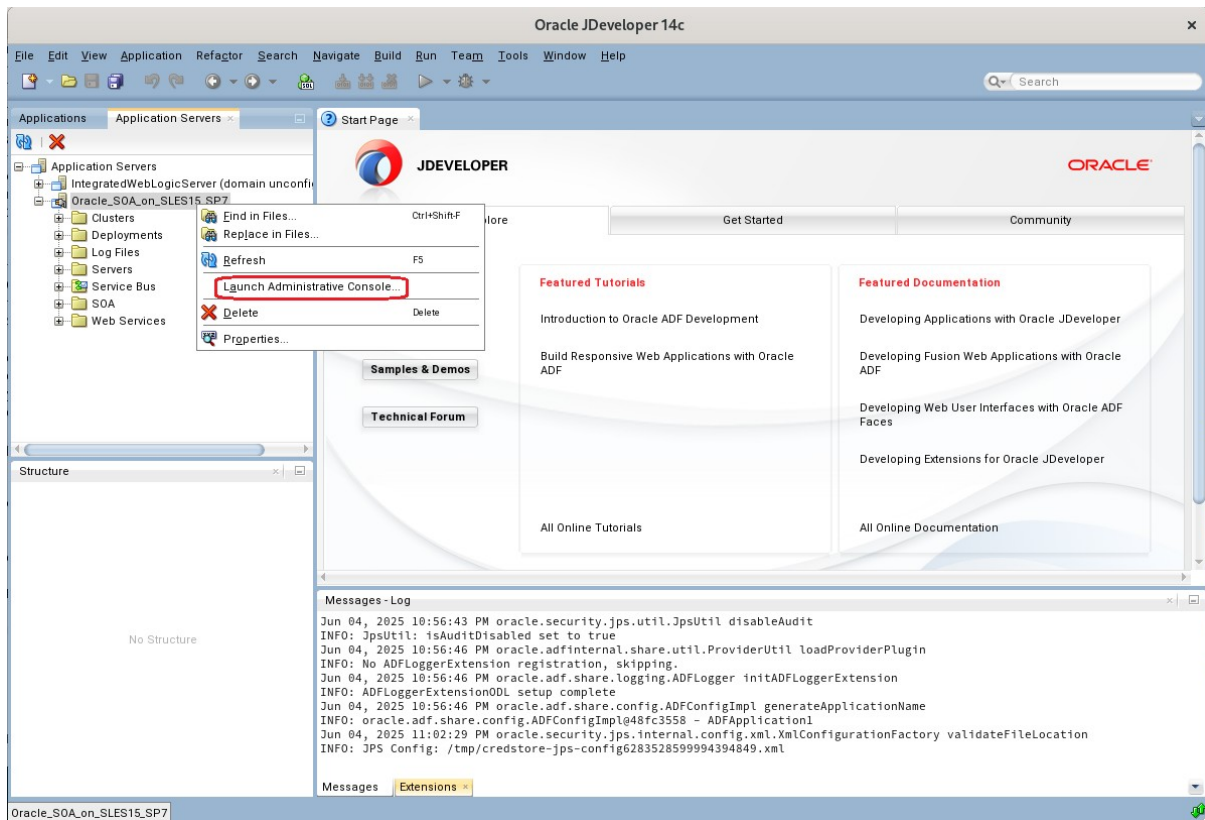
Test screen.



Finish screen.



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



Log into your administrative console.

WebLogic Server Sign In

WebLogic Server 14.1.2

ORACLE
WebLogic Server Sign In

Welcome

Username:
weblogic

Password:
.....

Sign In

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Log in successfully.

WebLogic Remote Console - ServerRuntimes

File Edit View Help

WebLogic Remote Console 2.4.16

Search

Security warnings detected.

Monitoring Tree (SOA Suite on SLES15 SP7)

Servers

Customize Table New Dashboard

A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration.

This page includes the monitoring data for each configured and/or running server in the current WebLogic Server domain.

Note: a managed server's State is 'Unreachable' when the administration server is unable to communicate with it. You can navigate to the managed server's page to get more information about its state. You can also customize this table to display the 'Server Life Cycle State' column, however doing so negates the 'Restart?' column.

Start Resume Suspend Shutdown Restart SSL

Name	State	Current Machine	Restart?	Complete Reqs	Open Sockets
AdminServer	Running		false	201631	6

Total Rows: 1

End of Oracle SOA Suite.

Oracle Access Manager

1. Installing Oracle Identity and Access Management 14c software

1-1. Prerequisites:

Installation of Oracle Identity and Access management requires:

- 1). Oracle Database 19c installed.

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

```
SQL> alter system set open_cursors=1600 scope=spfile;
System altered.
SQL> show parameter open_cursors;
NAME                                TYPE        VALUE
-----
open_cursors                        integer      300
SQL> shutdown immediate;
Database closed.
Database dismounted.
ORACLE instance shut down.
SQL> startup
ORACLE instance started.

Total System Global Area 1.5167E+10 bytes
Fixed Size                  18666064 bytes
Variable Size              2147483648 bytes
Database Buffers           1.2986E+10 bytes
Redo Buffers                14884864 bytes
Database mounted.
Database opened.
SQL> alter pluggable database all open;

Pluggable database altered.

SQL> show parameter open_cursors;
NAME                                TYPE        VALUE
-----
open_cursors                        integer      1600
SQL> 
```

- 2). Oracle JDK 17.0.12 or later installed.

1-2. Log in to the target system (SLES 15 SP7 64-bit OS) as a non-admin user. Download the Oracle Identity and Access Management 14c (14.1.2.1.0) 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 the .zip("V1048466-01.zip") file and launch the installation program by running `'java -jar fmw_14.1.2.1.0_idmquickstart.jar'`

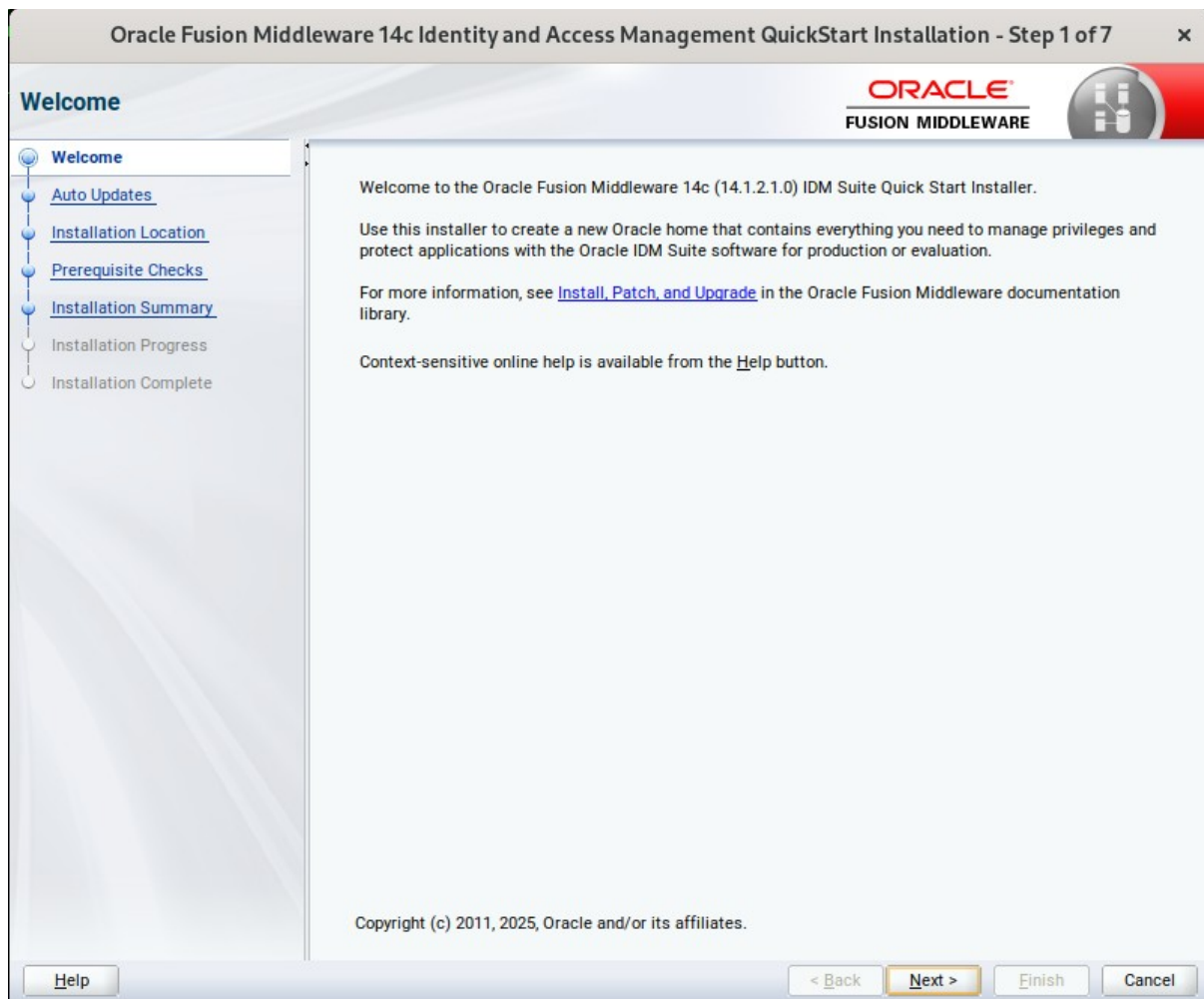
For the actual installation, follow the steps below:

1). Installation Inventory Setup.



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

2). **Welcome** page appears.



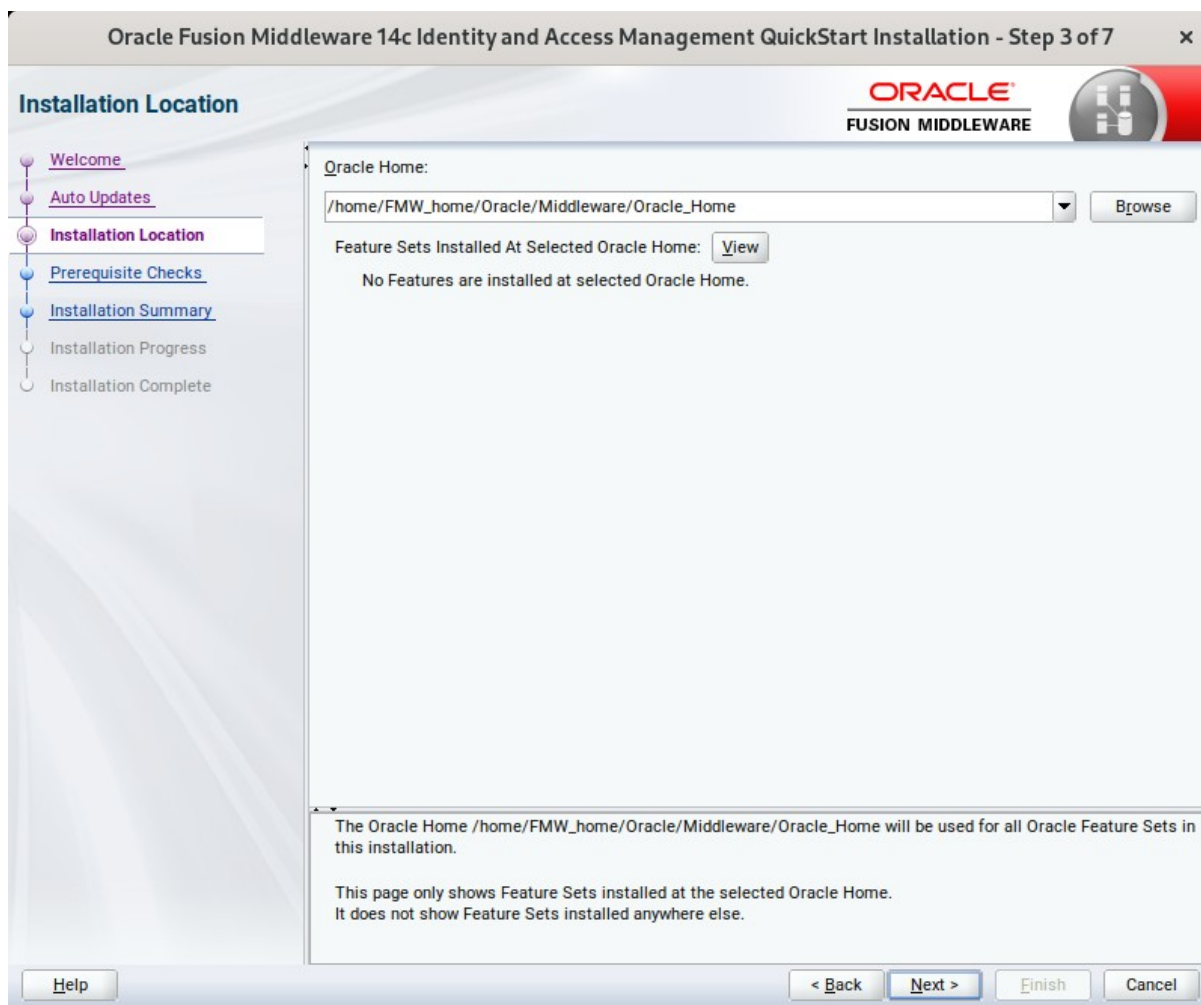
This page welcomes you to the installation. Click **Next** to continue.

3). The **Auto Updates** page appears.

The screenshot shows the 'Auto Updates' window of the Oracle Fusion Middleware 14c Identity and Access Management QuickStart Installation. The window title is 'Oracle Fusion Middleware 14c Identity and Access Management QuickStart Installation - Step 2 of 7'. The Oracle logo and 'FUSION MIDDLEWARE' text are in the top right. A sidebar on the left contains a list of steps: 'Welcome', 'Auto Updates' (selected), 'Installation Location', 'Prerequisite Checks', 'Installation Summary', 'Installation Progress', and 'Installation Complete'. The main area has two radio buttons: 'Skip Auto Updates' (selected) and 'Select patches from directory'. Below the second option is a 'Location:' text box with a 'Browse' button. Another radio button is 'Search My Oracle Support for Updates'. Below it are 'Username:' and 'Password:' text boxes, a 'Proxy Settings' button, and a 'Test Connection' button. A 'Search' button is at the bottom left of the main area. At the bottom of the window are buttons for '< Back', 'Next >', 'Finish', and 'Cancel'. A 'Help' button is in the bottom left corner of the sidebar area.

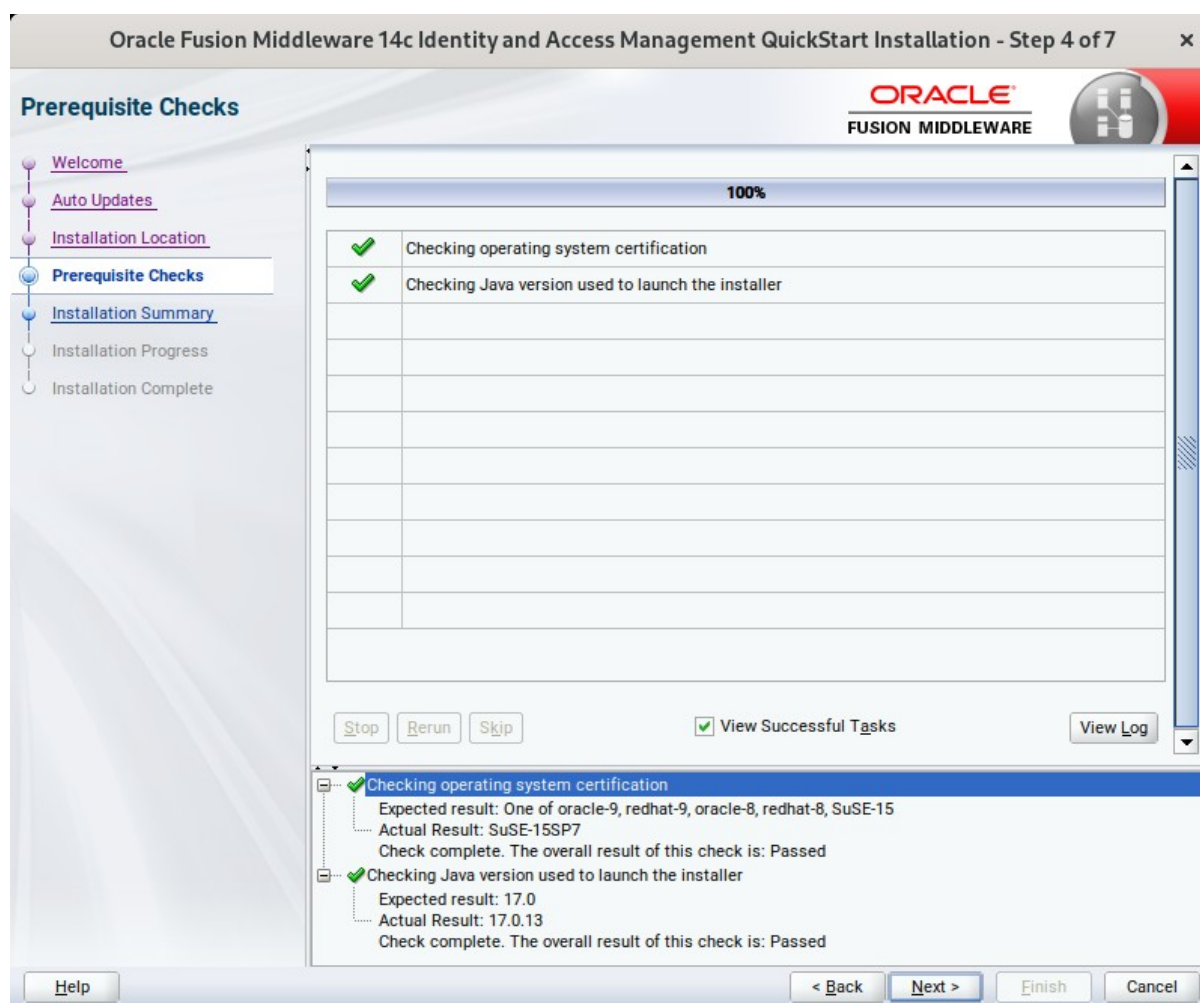
This screen helps to quickly and easily search for the latest software updates, including important security updates, via your My Oracle Support account. Make your choices, then click **Next** to continue.

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



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

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



This page 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.

(Note:

1). **Oracle Fusion Middleware 14c (14.1.2.0.0) - Minimum Requirements for the SLES OS.**

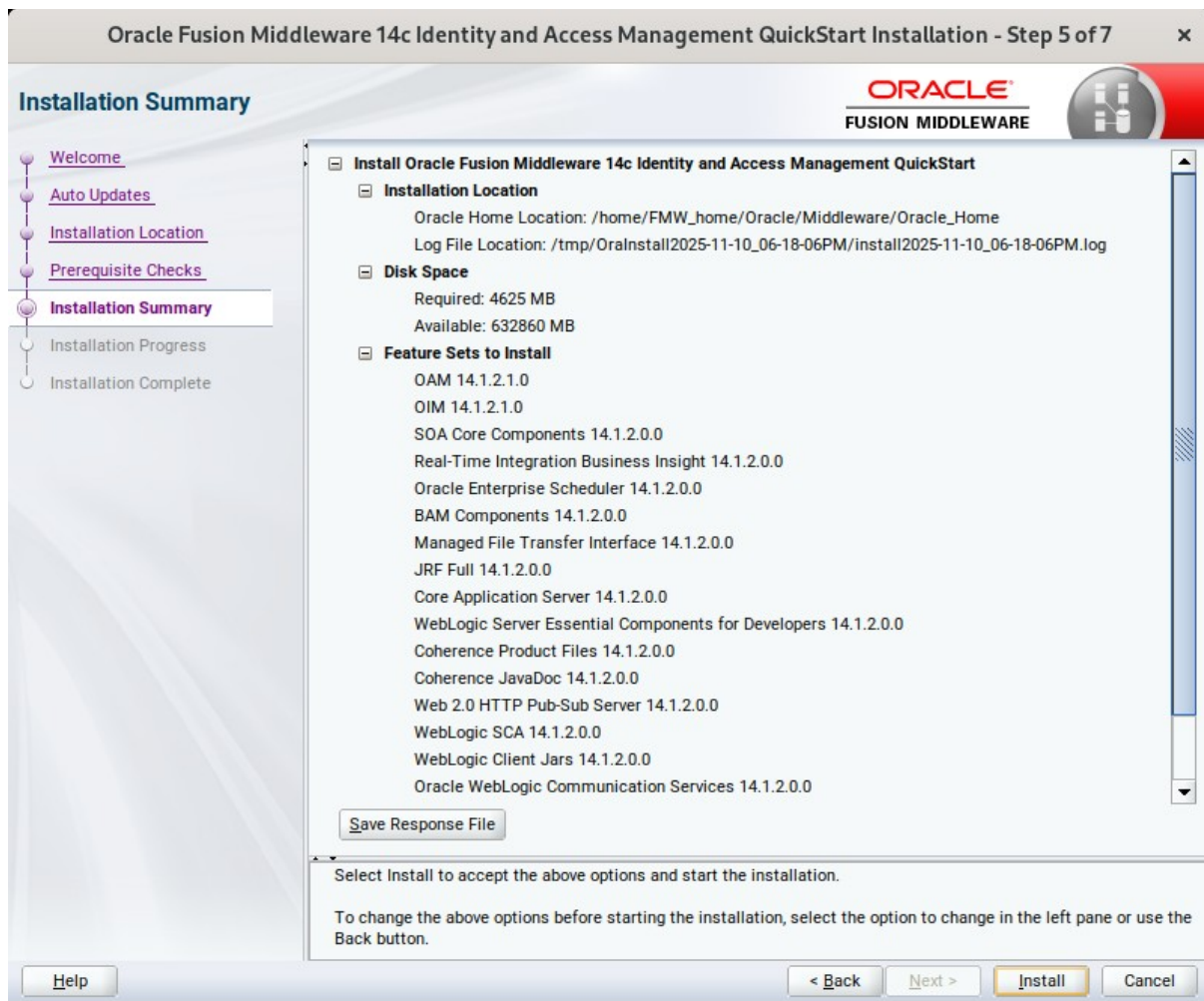
SUSE Linux Enterprise Server 15 (SP6+)

2). **Required Packages - Please ensure following packages(or later versions) are installed.**

```
binutils-2.41-150100.7.46.1-x86_64
glibc-2.38-150600.12.1-x86_64
linux-glibc-devel-6.4-150600.2.17-x86_64
glibc-devel-2.38-150600.12.1-x86_64
glibc-locale-2.38-150600.12.1-x86_64
glibc-extra-2.38-150600.12.1-x86_64
glibc-32bit-2.38-150600.12.1-x86_64
glibc-devel-32bit-2.38-150600.12.1-x86_64
```

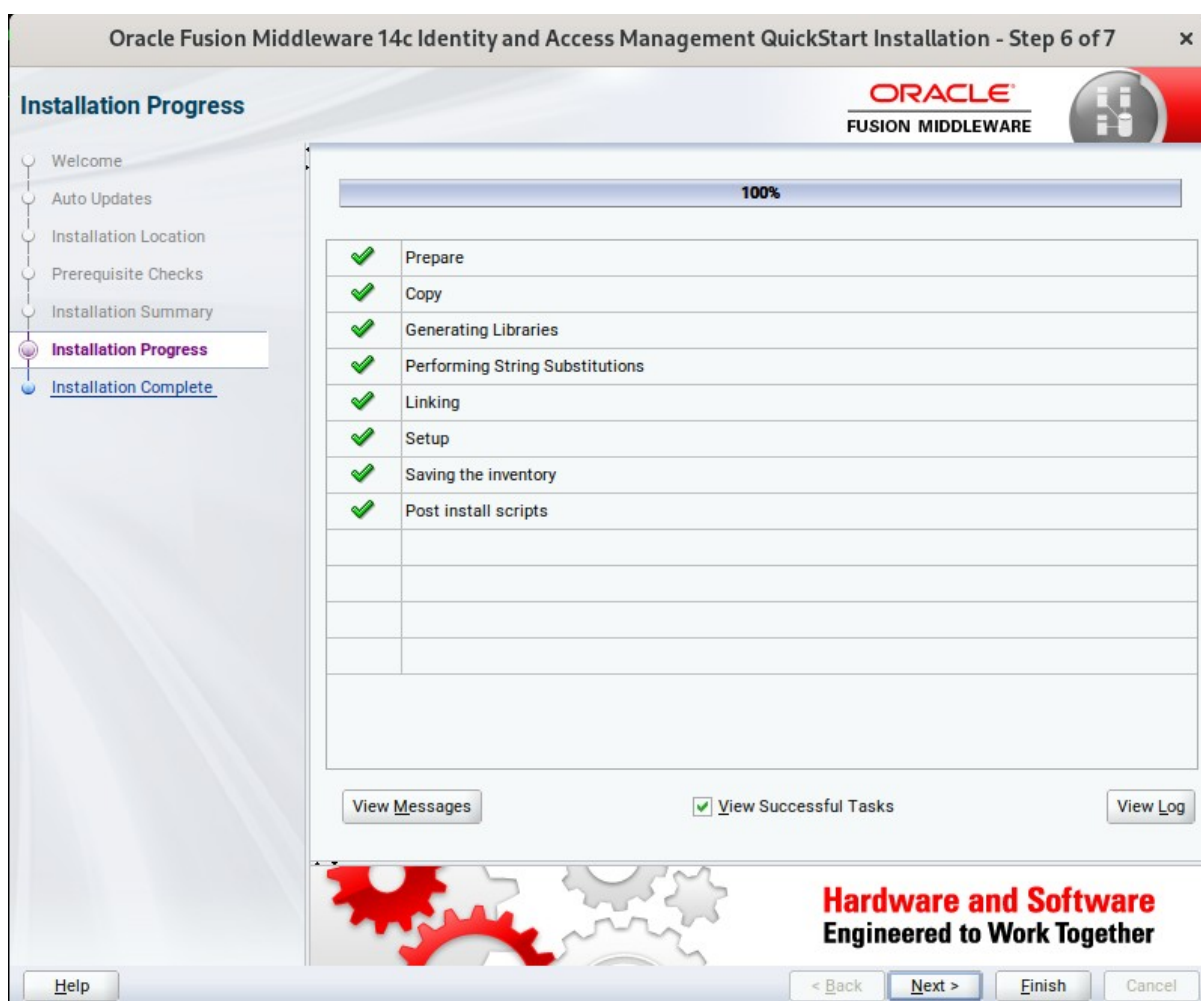
mksh-56c-1.10-x86_64
libaio1-0.3.109-1.25-x86_64
libaio1-32bit-0.3.109-1.25-x86_64
libaio-devel-32bit-0.3.109-1.25-x86_64
libaio-devel-0.3.109-1.25-x86_64
libcap2-2.63-150400.3.3.1-x86_64
libcap-ng0-0.7.9-4.37-x86_64
libcap2-32bit-2.63-150400.3.3.1-x86_64
libstdc++6-13.2.1+git8285-150000.1.9.1-x86_64
libstdc++6-devel-gcc7-7.5.0+r278197-150000.4.41.1-x86_64
libstdc++6-32bit-13.2.1+git8285-150000.1.9.1-x86_64
libstdc++6-devel-gcc7-32bit-7.5.0+r278197-150000.4.41.1-x86_64
libstdc++6-locale-13.2.1+git8285-150000.1.9.1-x86_64
libstdc++-devel-7-3.9.1-x86_64
libgcc_s1-13.2.1+git8285-150000.1.9.1-x86_64
libgcc_s1-32bit-13.2.1+git8285-150000.1.9.1-x86_64
make-4.2.1-7.3.2-x86_64
make-lang-4.2.1-7.3.2-noarch
makedumpfile-1.7.4-150600.1.3-x86_64
xorg-x11-7.6_1-1.22-noarch
xorg-x11-server-21.1.11-150600.3.2-x86_64
xorg-x11-fonts-7.6-13.6.1-noarch
xorg-x11-driver-video-7.6_1-9.10-x86_64
xorg-x11-Xvnc-1.13.1-150600.2.6-x86_64
xorg-x11-fonts-core-7.6-13.6.1-noarch
xorg-x11-server-extra-21.1.11-150600.3.2-x86_64
xorg-x11-essentials-7.6_1-1.22-noarch
)

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



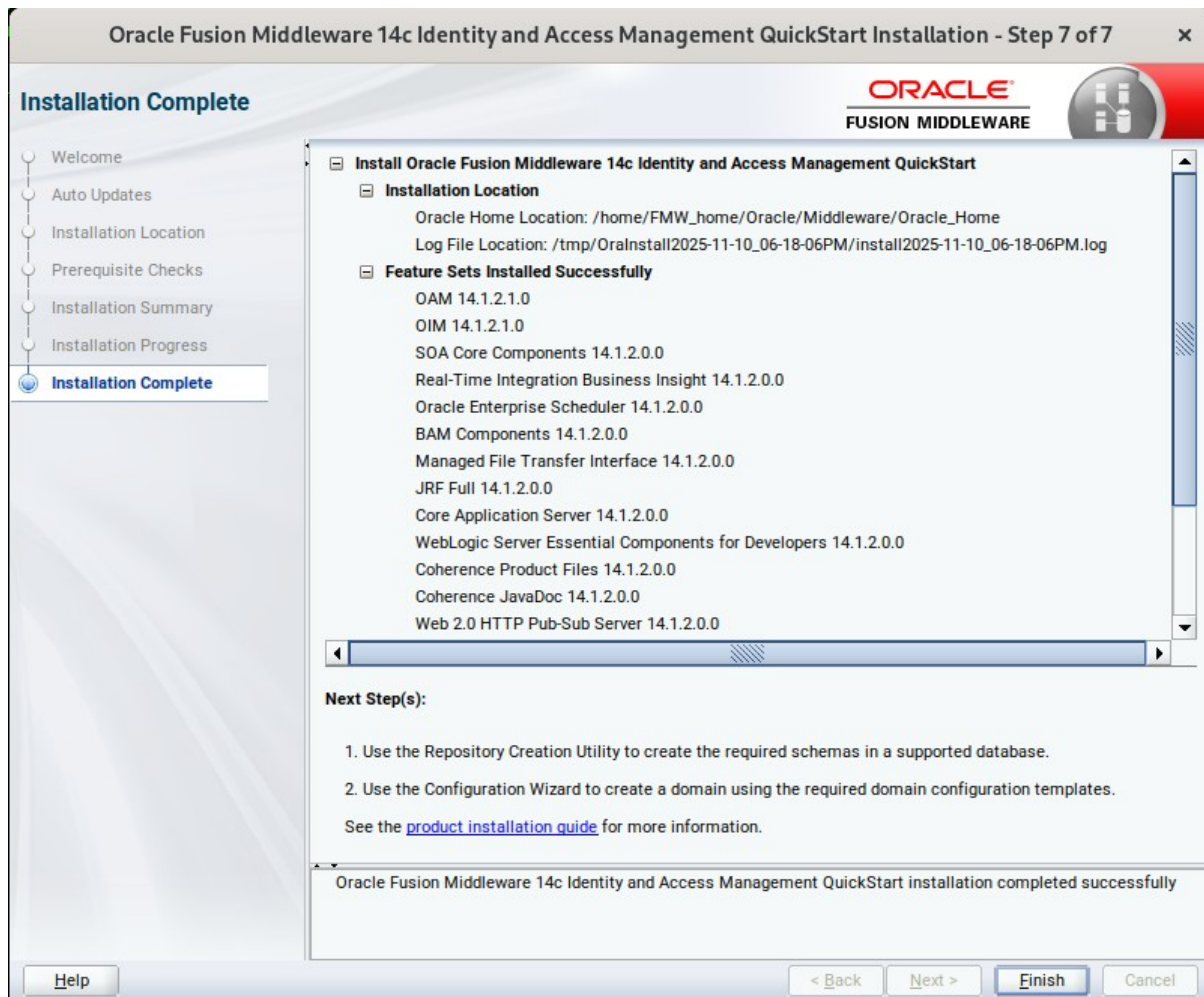
This page shows you what components and features are about to be installed. If you need to make changes, click **Back**, otherwise, click **Install** to start the installation.

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.



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 distribution. Run `$FMW_HOME/oracle_common/bin/rcu` and create required database schemas for Oracle Access Manager.

Screenshot: Database schemas creating for Oracle Access Manager.

Repository Creation Utility - Step 4 of 8

Repository Creation Utility

Specify a unique prefix for all schemas created in this session, so you can easily locate, reference, and manage the schemas later.

☐ Select existing prefix:

☒ Create new prefix:

Alpha numeric only. Cannot start with a number. No special characters.

Component	Schema Owner
<input type="checkbox"/> Oracle AS Repository Components	
<input checked="" type="checkbox"/> AS Common Schemas	
<input checked="" type="checkbox"/> Common Infrastructure Services *	DEV_STB
<input checked="" type="checkbox"/> Oracle Platform Security Services	DEV_OPSS
<input type="checkbox"/> Oracle Enterprise Scheduler	ESS
<input type="checkbox"/> User Messaging Service	UMS
<input checked="" type="checkbox"/> Audit Services	DEV_JAU
<input checked="" type="checkbox"/> Audit Services Append	DEV_JAU_APPEND
<input checked="" type="checkbox"/> Audit Services Viewer	DEV_JAU_VIEWER
<input checked="" type="checkbox"/> Metadata Services	DEV_MDS
<input checked="" type="checkbox"/> Weblogic Services *	DEV_WLS
<input type="checkbox"/> SOA Suite	
<input checked="" type="checkbox"/> IDM Schemas	
<input type="checkbox"/> Oracle Identity Manager	OIM
<input checked="" type="checkbox"/> Oracle Access Manager	DEV_OAM

* Mandatory component. Mandatory components cannot be deselected.

Help < Back Next > Finish Cancel

Select the **Create new prefix** radio button and specify a custom prefix(such as DEV1). Select the **Oracle Access Manager** schema, this action automatically selects the schemas as dependencies.

Ensure the schema creation is successful.

Repository Creation Utility - Step 8 of 8

Repository Creation Utility **ORACLE FUSION MIDDLEWARE**

Navigation: Welcome, Create Repository, Database Connection Details, Select Components, Schema Passwords, Map Tablespaces, Summary, **Completion Summary**

Database details:

Host Name: c3n1-sles16vm
Port: 1521
Service Name: SUSEPDB1
Connected As: sys
Operation: System and Data Load concurrently
Execution Time: 3 minutes 5 seconds

RCU Logfile: /tmp/RCU2025-11-11_18-57_1002322116/logs/rcu.log
Component Log: /tmp/RCU2025-11-11_18-57_1002322116/logs
Directory:
View Log: [rcu.log](#)

Prefix for (prefixable): DEV
Schema Owners:

Component	Status	Time	Logfile(Click to view)
Common Infrastructure Services	Success	00:10.060(sec)	stb.log
Oracle Platform Security Services	Success	00:29.393(sec)	opss.log
Oracle Access Manager	Success	00:50.905(sec)	oam.log
Audit Services	Success	00:17.018(sec)	iau.log
Audit Services Append	Success	00:09.396(sec)	iau_append.log
Audit Services Viewer	Success	00:09.383(sec)	iau_viewer.log
Metadata Services	Success	00:17.881(sec)	mds.log
Weblogic Services	Success	00:27.234(sec)	wls.log

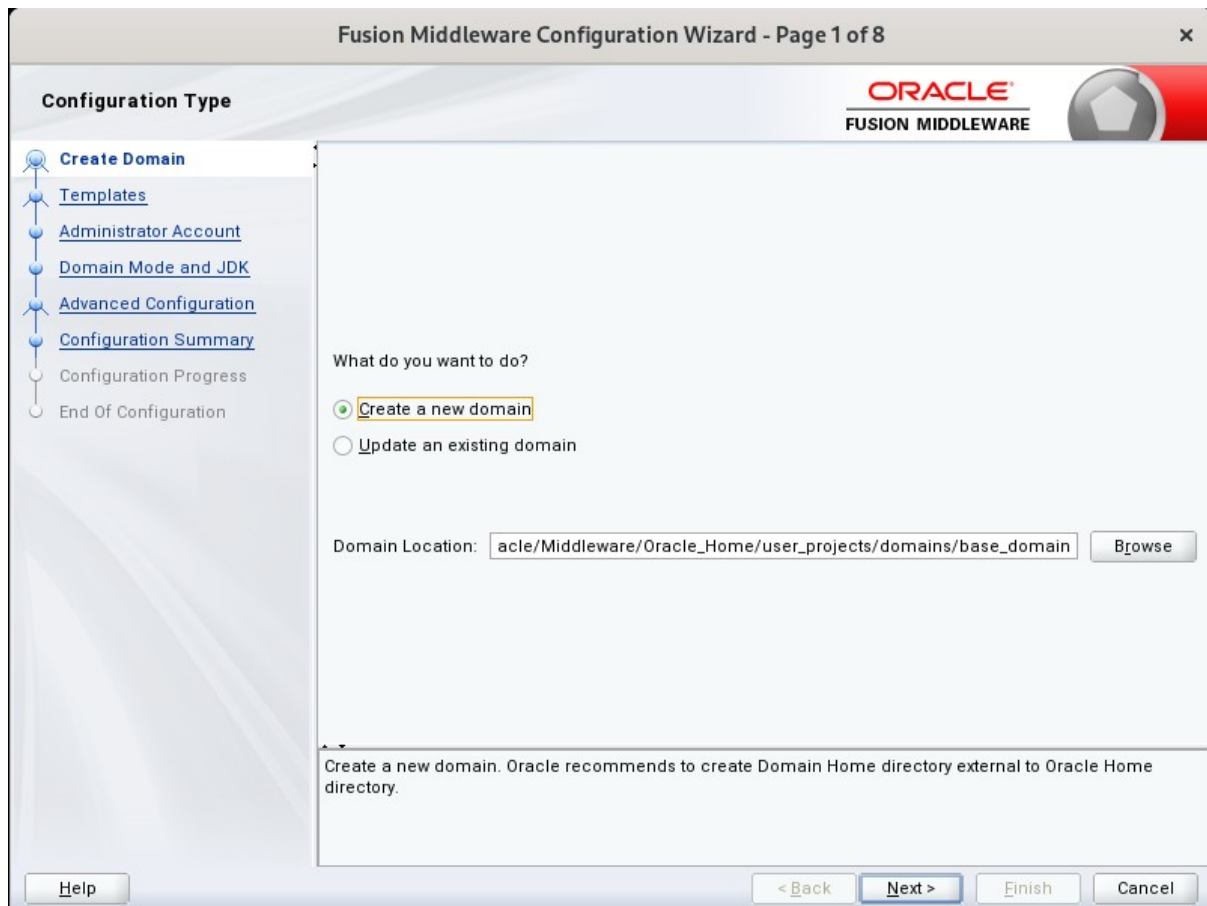
Help < Back Next > Create Close

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.

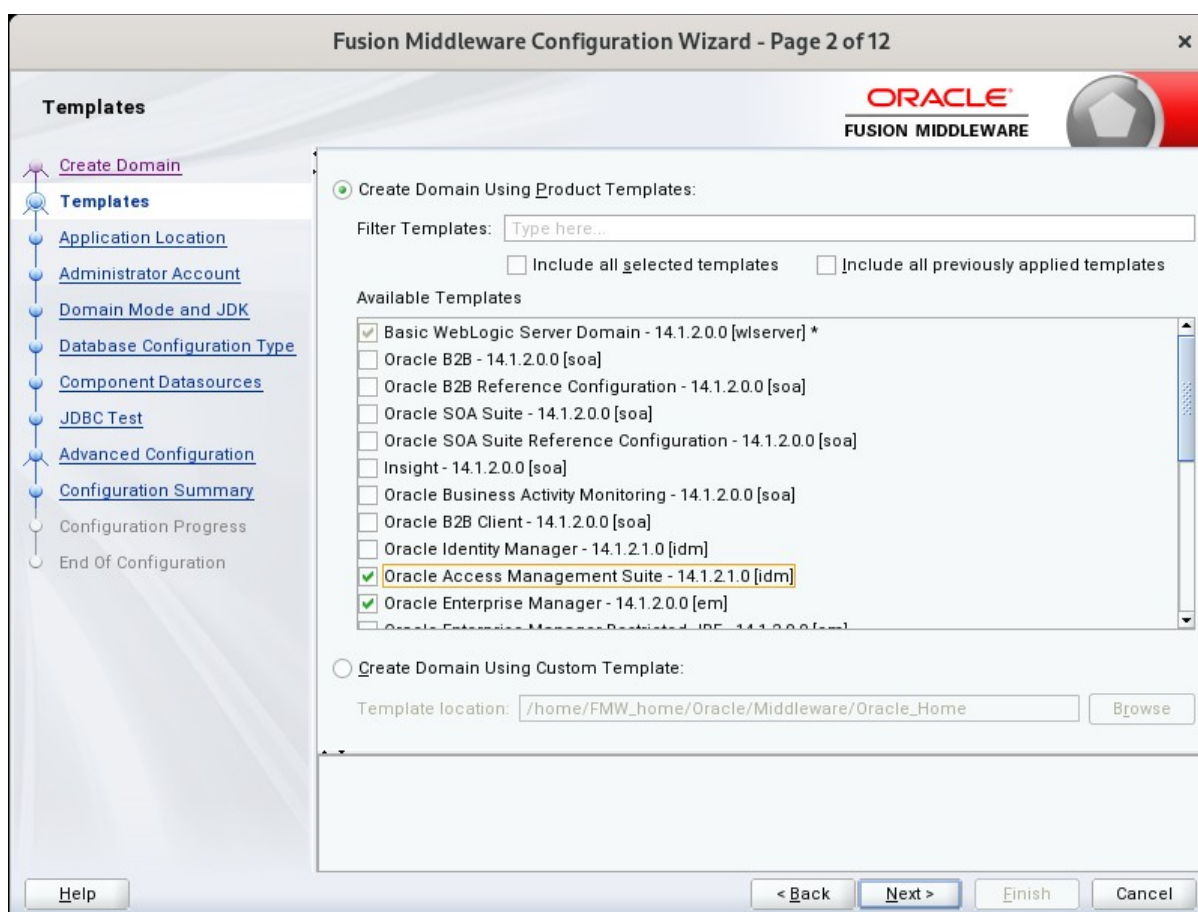
Follow these steps:

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



Click **Next** to continue.

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



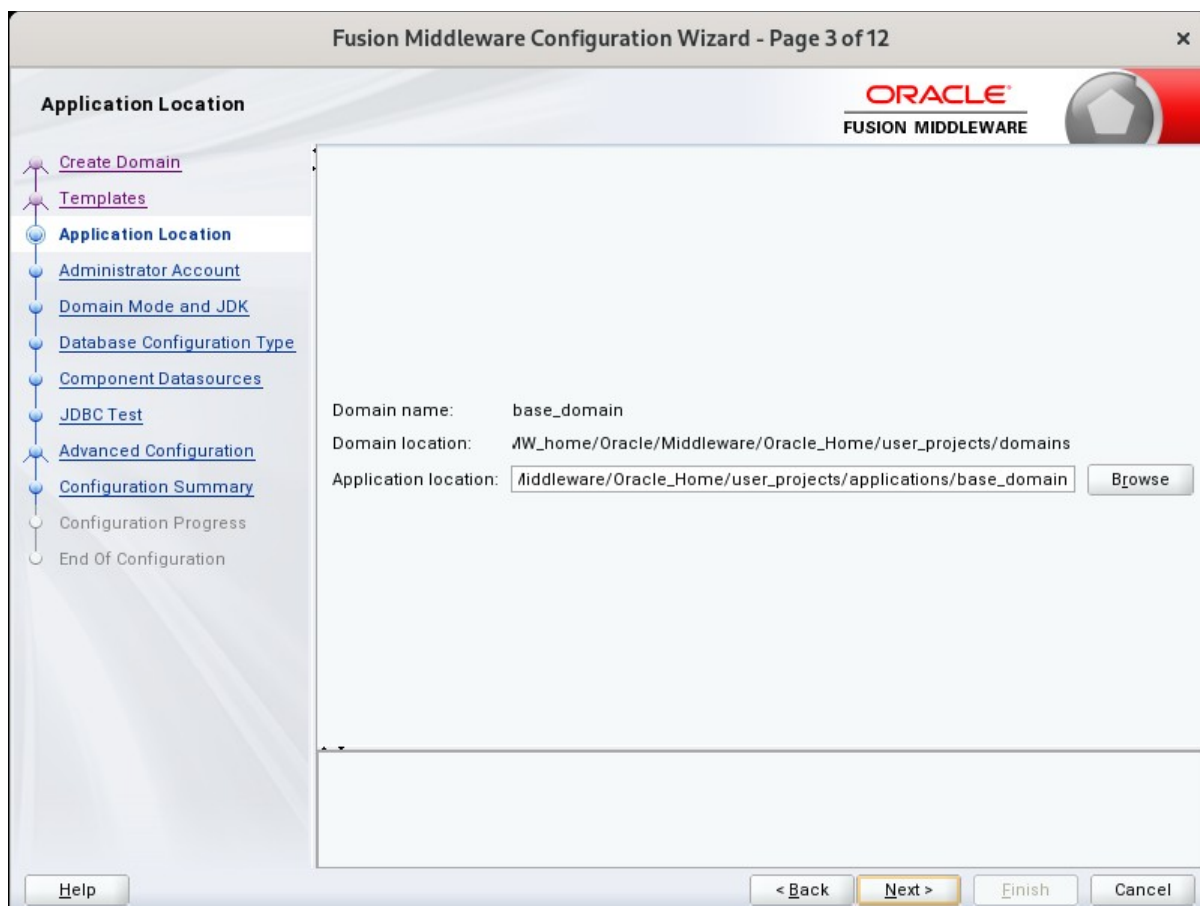
On the Templates screen, make sure **Create Domain Using Product Templates** is selected, then select the template **Oracle Access Management Suite [idm]**.

Selecting these templates automatically selects the following as dependencies:

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

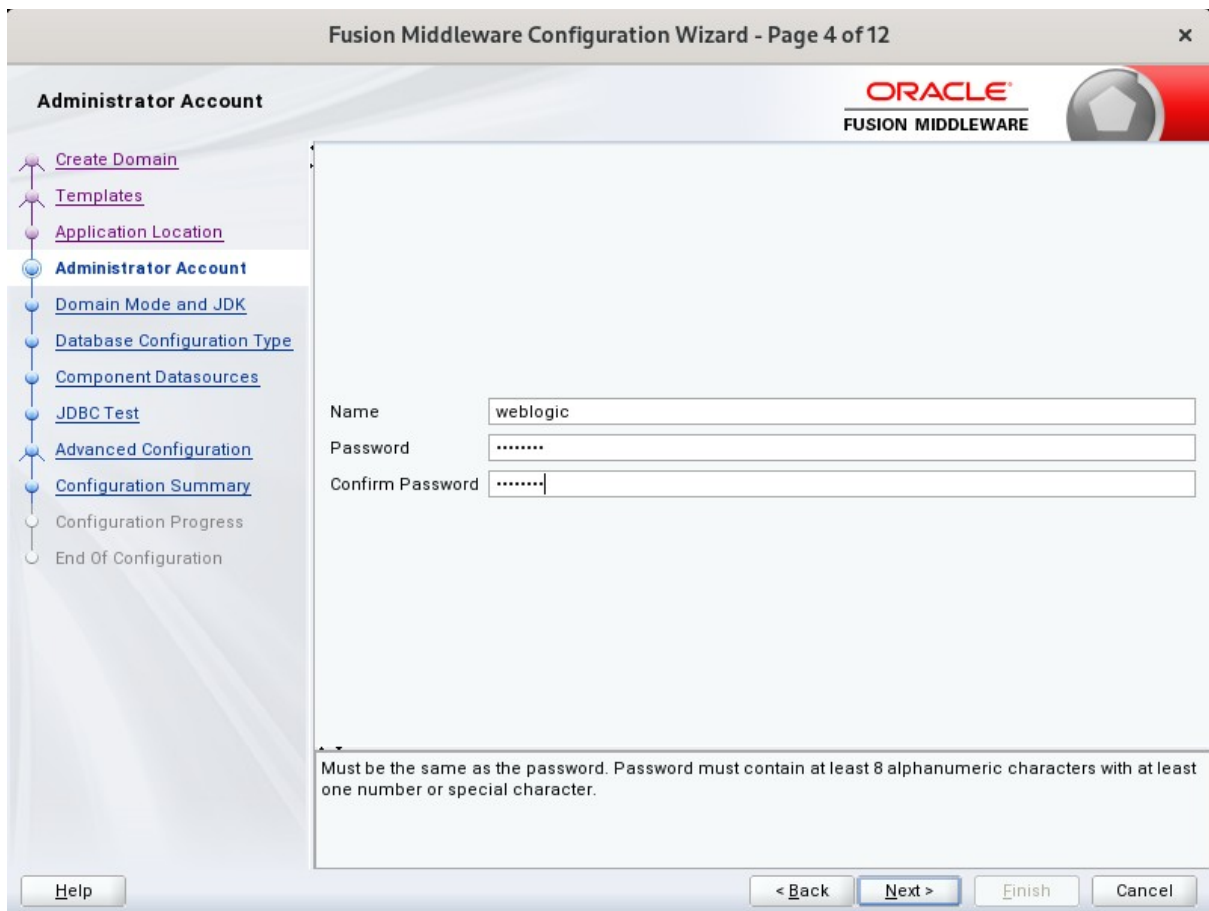
You can also select any of the Oracle products listed in the following table. You do not need to select all of these templates, and you can always run the configuration wizard again to add products to your domain later. Click **Next** to continue.

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



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

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



The screenshot shows the 'Administrator Account' screen of the Fusion Middleware Configuration Wizard. The title bar indicates 'Fusion Middleware Configuration Wizard - Page 4 of 12'. The Oracle logo and 'FUSION MIDDLEWARE' text are in the top right. A navigation pane on the left lists the steps: Create Domain, Templates, Application Location, Administrator Account (selected), Domain Mode and JDK, Database Configuration Type, Component Datasources, JDBC Test, Advanced Configuration, Configuration Summary, Configuration Progress, and End Of Configuration. The main area contains three input fields: 'Name' with the value 'weblogic', 'Password' with masked characters, and 'Confirm Password' with masked characters. A note at the bottom states: 'Must be the same as the password. Password must contain at least 8 alphanumeric characters with at least one number or special character.' Navigation buttons at the bottom include 'Help', '< Back', 'Next >', 'Finish', and 'Cancel'.

Fusion Middleware Configuration Wizard - Page 4 of 12

Administrator Account

ORACLE
FUSION MIDDLEWARE

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

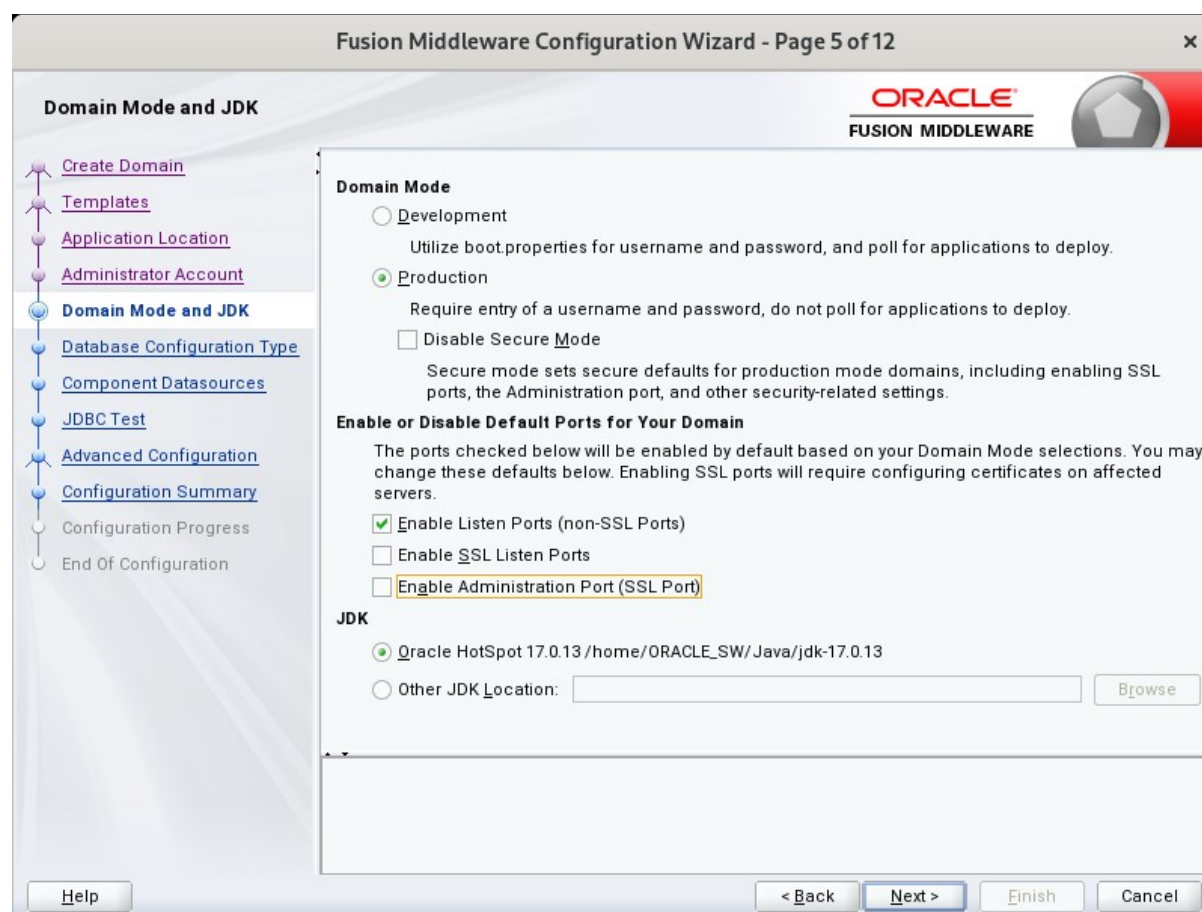
Name: weblogic
Password:
Confirm Password:

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

Help < Back Next > Finish Cancel

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

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



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

(**Note:** Select **Production** Mode to give your environment a higher degree of security. You need to enter a user name and password to deploy applications and to start the Administration Server.

As of WebLogic Server 14.1.2.0.0, when you select **Production** mode, WebLogic Server automatically sets some of the security configurations of **Secured Production** to more secure values. However, there are certain security configurations (such as SSL/TLS) that require manual configuration. If you want to disable the more secure default settings, then you may select **Disable Secure Mode**. This will enable the non-SSL listen ports.

If you want to retain the more secure default settings of **Secured Production** mode in general, but want to change which ports (listen ports, SSL listen ports, or administration ports) will be enabled by default in your domain, then you may:

- Leave **Disable Secure Mode** unselected, and
- Change the default port selections under **Enable or Disable Default Ports for Your Domain**.

)

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

The screenshot shows the 'Database Configuration Type' screen of the Fusion Middleware Configuration Wizard. The title bar indicates 'Fusion Middleware Configuration Wizard - Page 6 of 12'. The Oracle logo and 'FUSION MIDDLEWARE' text are in the top right. A left-hand navigation pane lists steps: 'Create Domain', 'Templates', 'Application Location', 'Administrator Account', 'Domain Mode and JDK', 'Database Configuration Type' (selected), 'Component Datasources', 'JDBC Test', 'Advanced Configuration', 'Configuration Summary', 'Configuration Progress', and 'End Of Configuration'. The main area is titled 'Specify AutoConfiguration Options Using:' and has two radio buttons: 'RCU Data' (selected) and 'Manual Configuration'. Below this, a text box explains that the wizard uses the schema credentials of the Common Infrastructure Services component in the Repository Creation Utility to automatically configure datasources. There are two dropdown menus: 'Vendor' set to 'Oracle' and 'Driver' set to '*Oracle's Driver (Thin) for Service connections; Versi...'. Below these are two radio buttons: 'Connection Parameters' (selected) and 'Connection URL String'. The 'Connection Parameters' section contains several text fields: 'Host Name' (c3n1-sles16vm), 'DBMS/Service' (susepdb1), 'Port' (1521), 'Schema Owner' (DEV_STB), and 'Schema Password' (masked with dots). There are 'Get RCU Configuration' and 'Cancel' buttons. A 'Connection Result Log' section shows the following text: 'Connecting to the database server...OK', 'Retrieving schema data from database server...OK', 'Binding local schema components with retrieved data...OK', and 'Successfully Done.'. At the bottom, a message says 'Click *Next* button to continue.' and there are buttons for '< Back', 'Next >', 'Finish', and 'Cancel'. A 'Help' button is in the bottom left corner of the wizard window.

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.

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

Fusion Middleware Configuration Wizard - Page 7 of 12

JDBC Component Schema

ORACLE
FUSION MIDDLEWARE

Vendor: Driver:

☐ Connection Parameters ☒ Connection URL String

URL:

Schema Owner: Schema Password:

Oracle RAC configuration for component schemas:

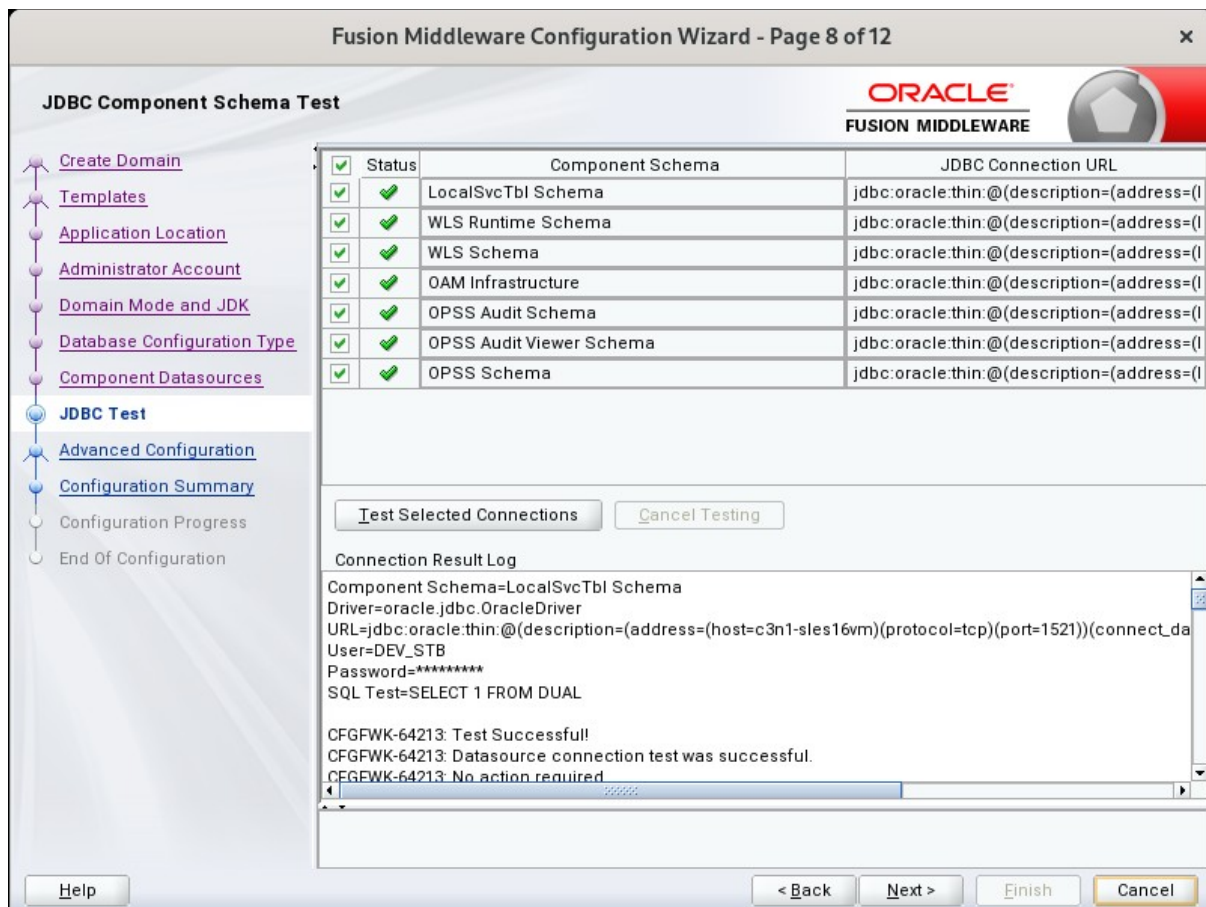
☐ Convert to GridLink ☐ Convert to RAC multi data source ☐ Don't convert

Edits to the data above will affect all checked rows in the table below.

<input type="checkbox"/>	Component Schema	URL	Schema Owner	Schema Password
<input type="checkbox"/>	LocalSvcTbi Schema	jdbc:oracle:thin:@(description=(addre:	DEV_STB	.....
<input type="checkbox"/>	WLS Runtime Schema	jdbc:oracle:thin:@(description=(addre:	DEV_WLS_RUNT	.....
<input type="checkbox"/>	WLS Schema	jdbc:oracle:thin:@(description=(addre:	DEV_WLS	.....
<input type="checkbox"/>	OAM Infrastructure	jdbc:oracle:thin:@(description=(addre:	DEV_OAM	.....
<input type="checkbox"/>	OPSS Audit Schema	jdbc:oracle:thin:@(description=(addre:	DEV_IJU_APPEN	.....
<input type="checkbox"/>	OPSS Audit Viewer Sche	jdbc:oracle:thin:@(description=(addre:	DEV_IJU_VIEWEI	.....
<input type="checkbox"/>	OPSS Schema	jdbc:oracle:thin:@(description=(addre:	DEV_OPSS	.....

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

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



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

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



On the Advanced Configuration screen, select:

- Administration Server
- Node Manager
- Topology

Then, click **Next** to continue.

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

The screenshot shows the 'Administration Server' configuration screen in the Fusion Middleware Configuration Wizard. The window title is 'Fusion Middleware Configuration Wizard - Page 10 of 19'. The Oracle Fusion Middleware logo is in the top right corner. On the left is a navigation pane with a tree view containing the following items: 'Create Domain', 'Templates', 'Application Location', 'Administrator Account', 'Domain Mode and JDK', 'Database Configuration Type', 'Component Datasources', 'JDBC Test', 'Advanced Configuration', 'Administration Server' (highlighted with a blue circle), 'Node Manager', 'Managed Servers', 'Clusters', 'Server Templates', 'Coherence Clusters', 'Machines', 'Configuration Summary', 'Configuration Progress', and 'End Of Configuration'. The main area contains the following fields and options:

- Server Name:** A text field containing 'AdminServer'.
- Listen Address:** A dropdown menu showing '10.200.176.11'.
- Configure Administration Server Ports:**
 - ☒ **Enable Listen Port**: A checkbox that is checked.
 - ☐ **Enable SSL Listen Port**: An unchecked checkbox.
 - Listen Port:** A text field containing '7001'.
 - SSL Listen Port:** A text field containing '7002'.
 - Administration Port:** A text field containing '9002'.
- Server Groups:** A dropdown menu showing 'Unspecified'.

At the bottom of the window are four buttons: 'Help', '< Back', 'Next >', 'Finish', and 'Cancel'.

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, or All Local Addresses. Click **Next** to continue.

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

The screenshot shows the 'Node Manager' configuration screen in the Fusion Middleware Configuration Wizard. The title bar indicates 'Page 11 of 19'. The Oracle Fusion Middleware logo is in the top right. A left-hand navigation pane lists various configuration steps, with 'Node Manager' currently selected and highlighted. The main content area is divided into two sections: 'Node Manager Topology' and 'Node Manager Credentials'. In the 'Node Manager Topology' section, the 'Per Domain Default Location' radio button is selected. Below it, the 'Node Manager Home' text field contains the path '%_Home/user_projects/domains/base_domain/nodemanager', with a 'Browse' button to its right. The 'Manual Node Manager Setup' radio button is unselected. In the 'Node Manager Credentials' section, there are three text fields: 'Username' (containing 'weblogic'), 'Password' (containing seven dots), and 'Confirm Password' (containing seven dots). A note at the bottom of this section states: 'Must be the same as the password. Password must contain at least 8 alphanumeric characters with at least one number or special character.' At the bottom of the window, there are four buttons: 'Help', '< Back', 'Next >', and 'Finish'. The 'Next >' button is highlighted with a blue border.

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

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

Fusion Middleware Configuration Wizard - Page 12 of 19

Managed Servers

ORACLE
FUSION MIDDLEWARE

+ Add Clone X Delete Discard Changes

Server Name	Listen Address	Enable Listen	Listen Port	Enable SSL Port	SSL Listen Port	Administration Port	Server Groups
oam_server1	10.200.176.11	<input checked="" type="checkbox"/>	14100	<input type="checkbox"/>	Disabled	Disabled	OAM-...
oam_policy_mgr1	10.200.176.11	<input checked="" type="checkbox"/>	14150	<input type="checkbox"/>	Disabled	Disabled	OAM-...

Navigation: < Back Next > Finish Cancel

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

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

Fusion Middleware Configuration Wizard - Page 13 of 21

Clusters

ORACLE
FUSION MIDDLEWARE

[+ Add](#) [X Delete](#) [Discard Changes](#)

Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS
oam_cluster_1			0	0
oam-policy_cluster_1			0	0

[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](#)
[Configuration Summary](#)
[Configuration Progress](#)

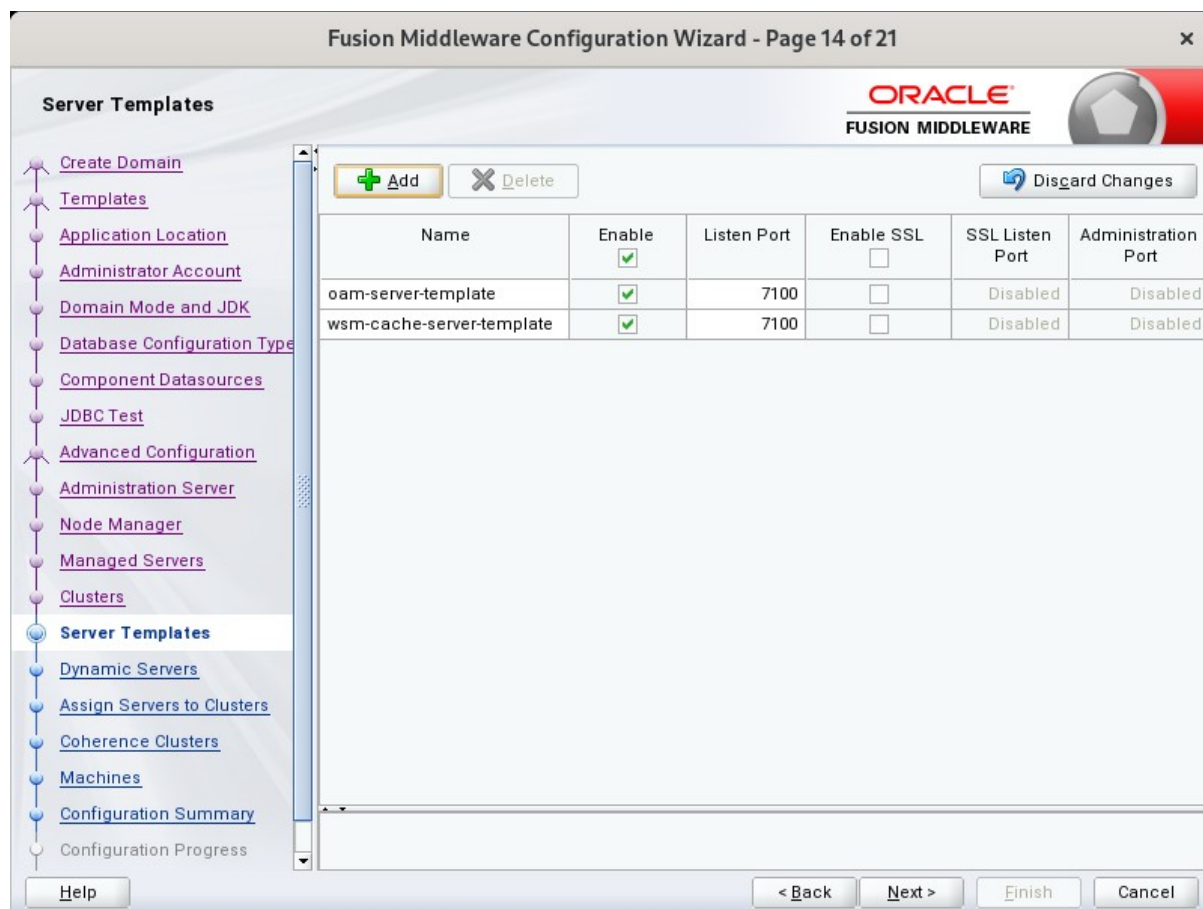
[Help](#) [< Back](#) [Next >](#) [Finish](#) [Cancel](#)

On the Clusters screen:

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

Click **Next** to continue.

14). The **Server templates** screen appears.



Fusion Middleware Configuration Wizard - Page 14 of 21

ORACLE
FUSION MIDDLEWARE

Server Templates

+ Add X Delete Discard Changes

Name	Enable	Listen Port	Enable SSL	SSL Listen Port	Administration Port
oam-server-template	<input checked="" type="checkbox"/>	7100	<input type="checkbox"/>	Disabled	Disabled
wsm-cache-server-template	<input checked="" type="checkbox"/>	7100	<input type="checkbox"/>	Disabled	Disabled

Help < Back Next > Finish Cancel

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

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

Fusion Middleware Configuration Wizard - Page 15 of 21

Dynamic Servers

ORACLE
FUSION MIDDLEWARE

Discard Changes

Cluster Name	Server Name Prefix	Server Template	Dynamic Cluster Size	Machine Name Match Expression	Calculated Machine Names	Calculated Listen Ports	Dynamic Server Groups
oam_cluster_1	Disabled	Unsp...	Disabled	Disabled	<input type="checkbox"/>	<input type="checkbox"/>	Unspeci...
oam-policy_cluster_1	Disabled	Unsp...	Disabled	Disabled	<input type="checkbox"/>	<input type="checkbox"/>	Unspeci...

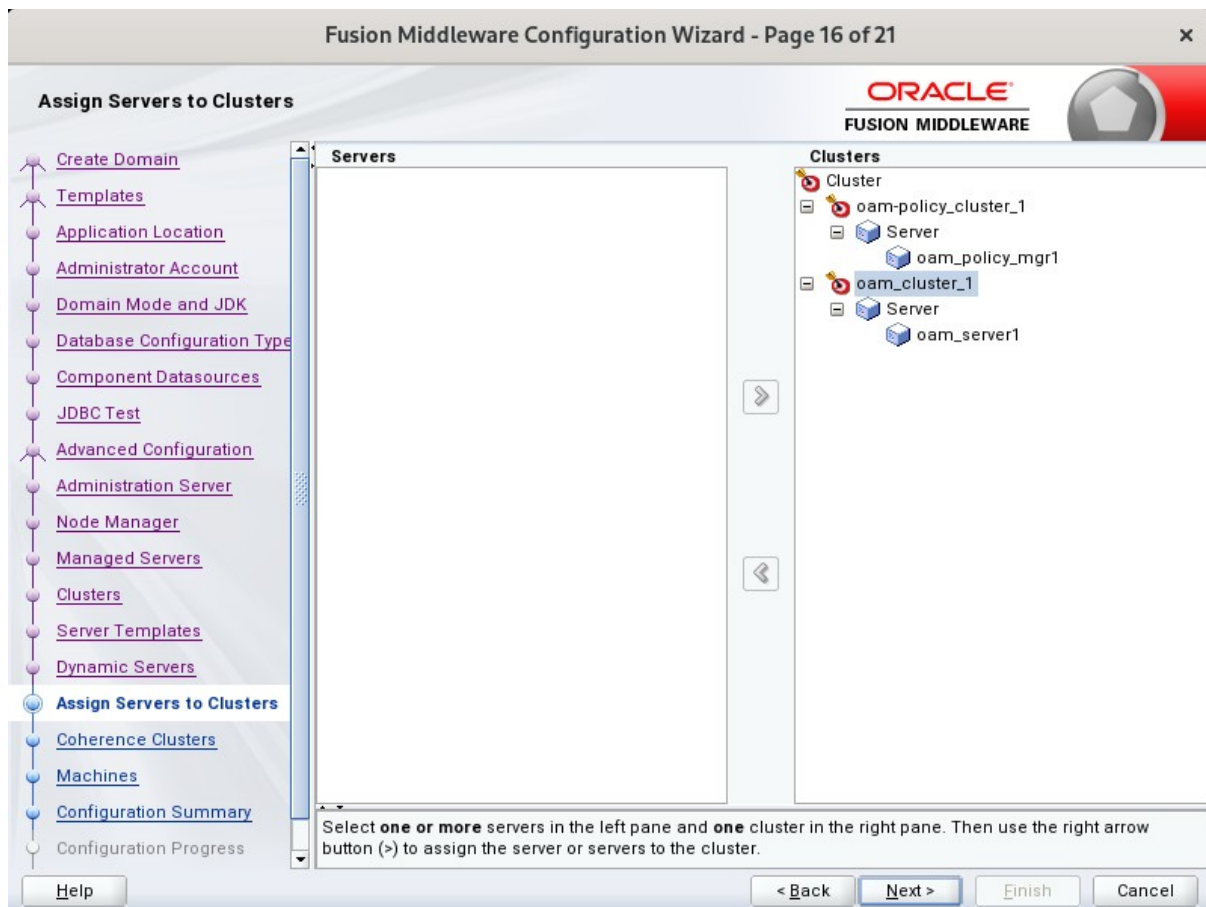
Navigation pane (left):

- 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
- Configuration Summary
- Configuration Progress

Buttons: Help, < Back, Next >, Finish, Cancel

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

16). The **Assign Servers to Clusters** screen appears.



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

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

Fusion Middleware Configuration Wizard - Page 17 of 21

ORACLE
FUSION MIDDLEWARE

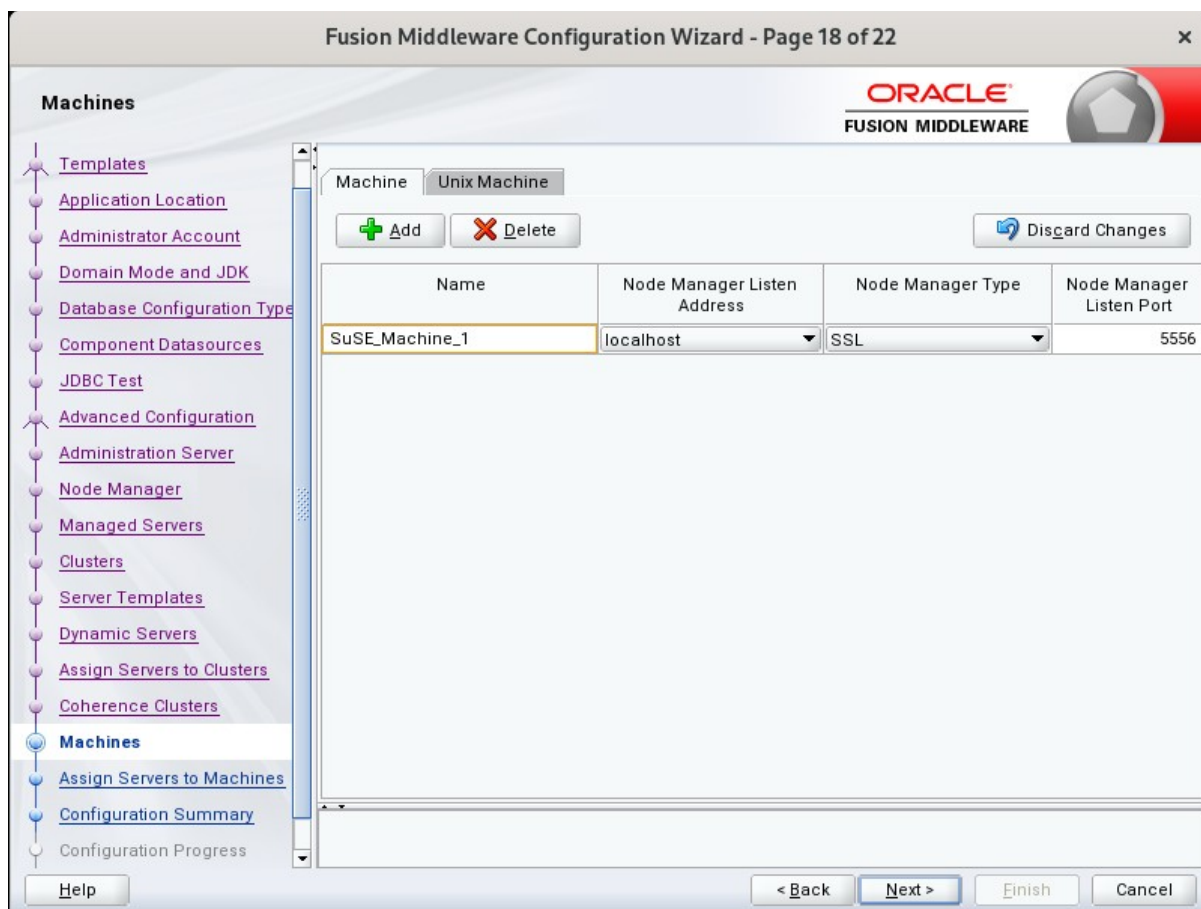
Discard Changes

Cluster Name	Cluster Listen Port
defaultCoherenceCluster	7574

Help < Back Next > Finish Cancel

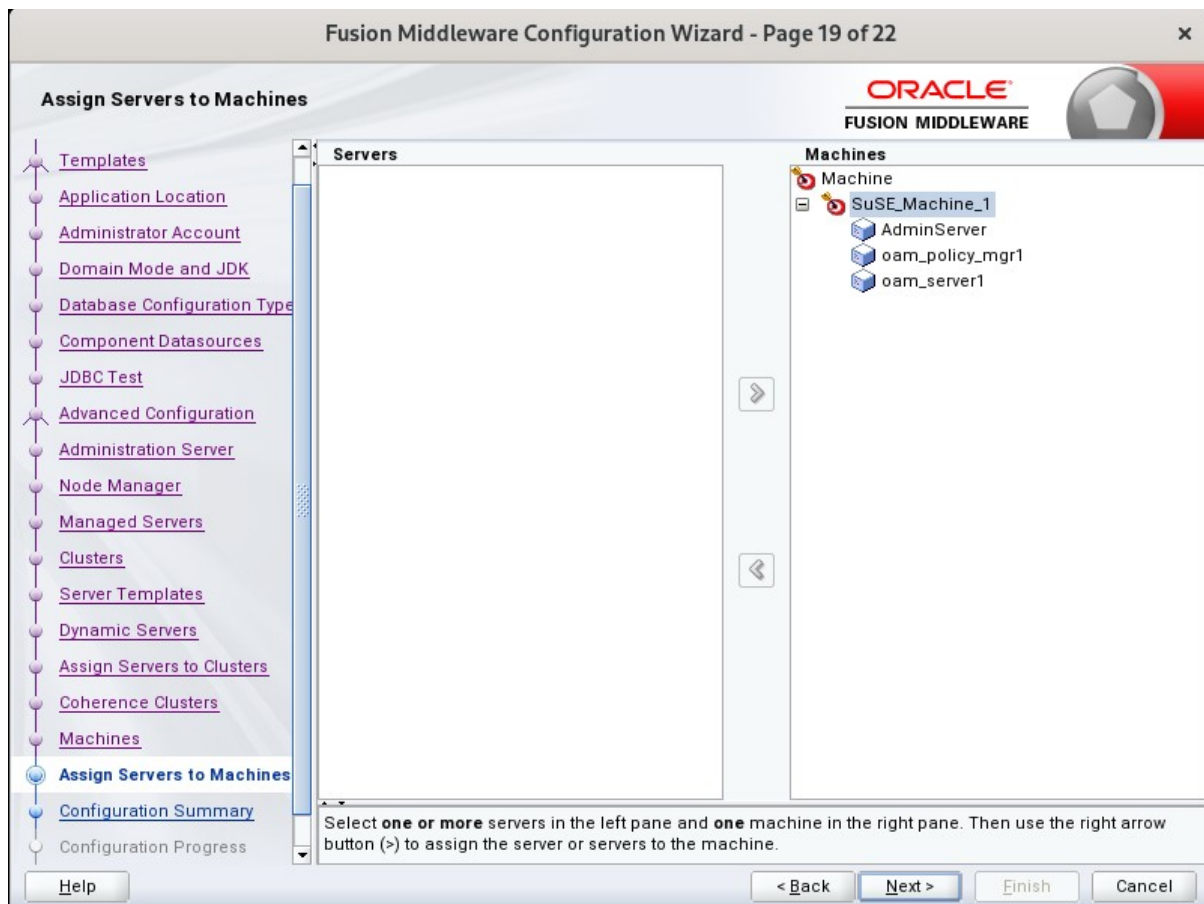
Leave the default port number as the Coherence cluster listen port. After configuration, the Coherence cluster is automatically added to the domain. Click **Next** to continue.

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



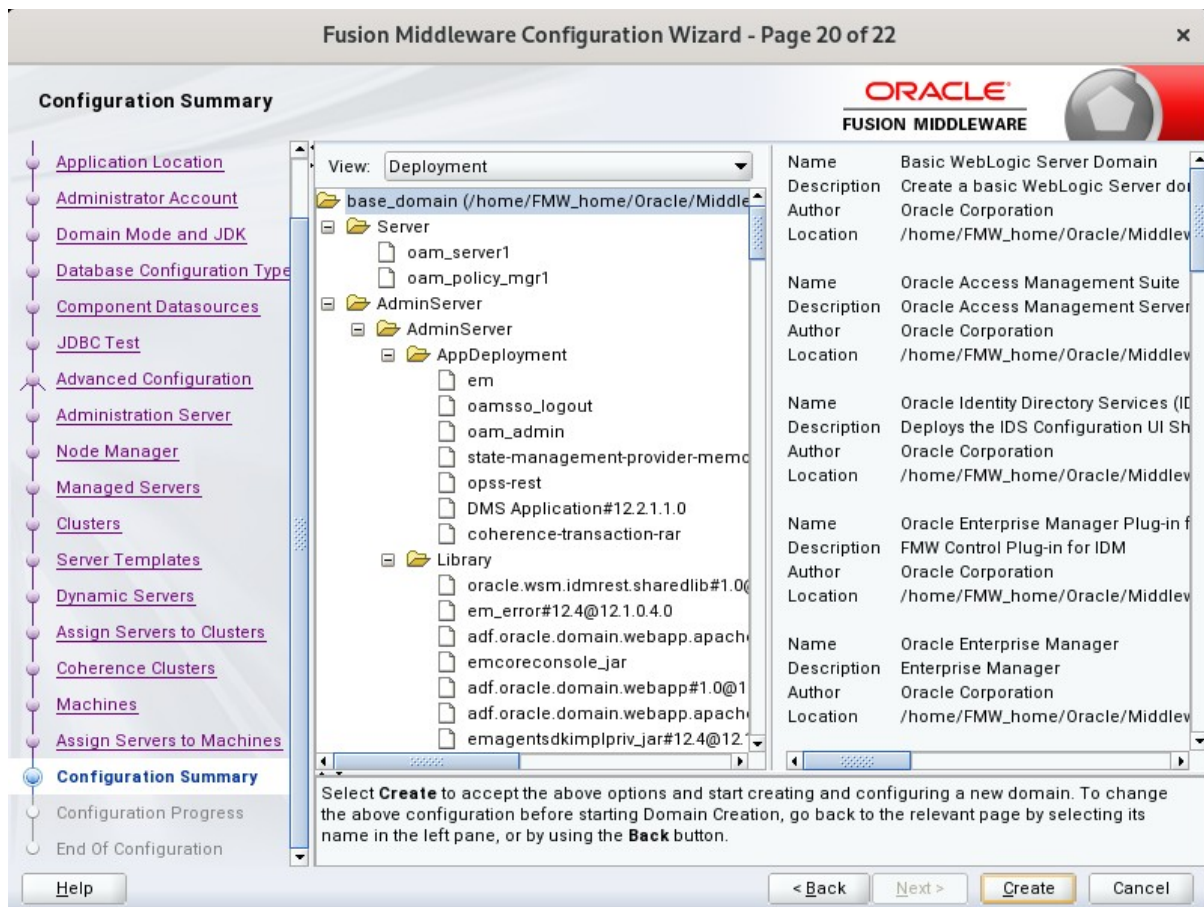
To create a new machine so that Node Manager can start and stop servers. Click **Next** to continue.

19). The **Assign Servers to Machines** screen appears.



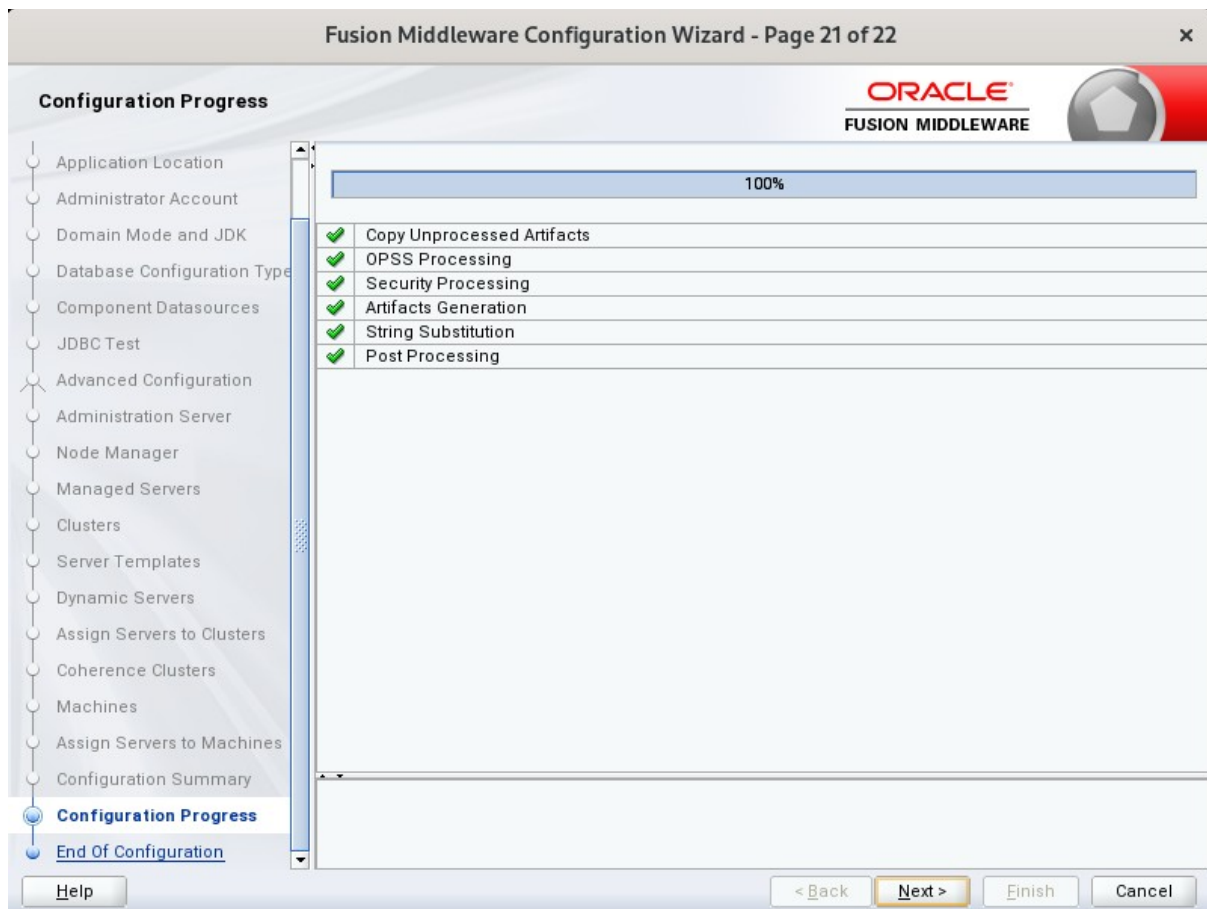
Use the **Assign Servers to Machines** screen to assign the Managed Servers to the new machine you just created. Click **Next** to continue.

20). The **Configuration Summary** screen appears.



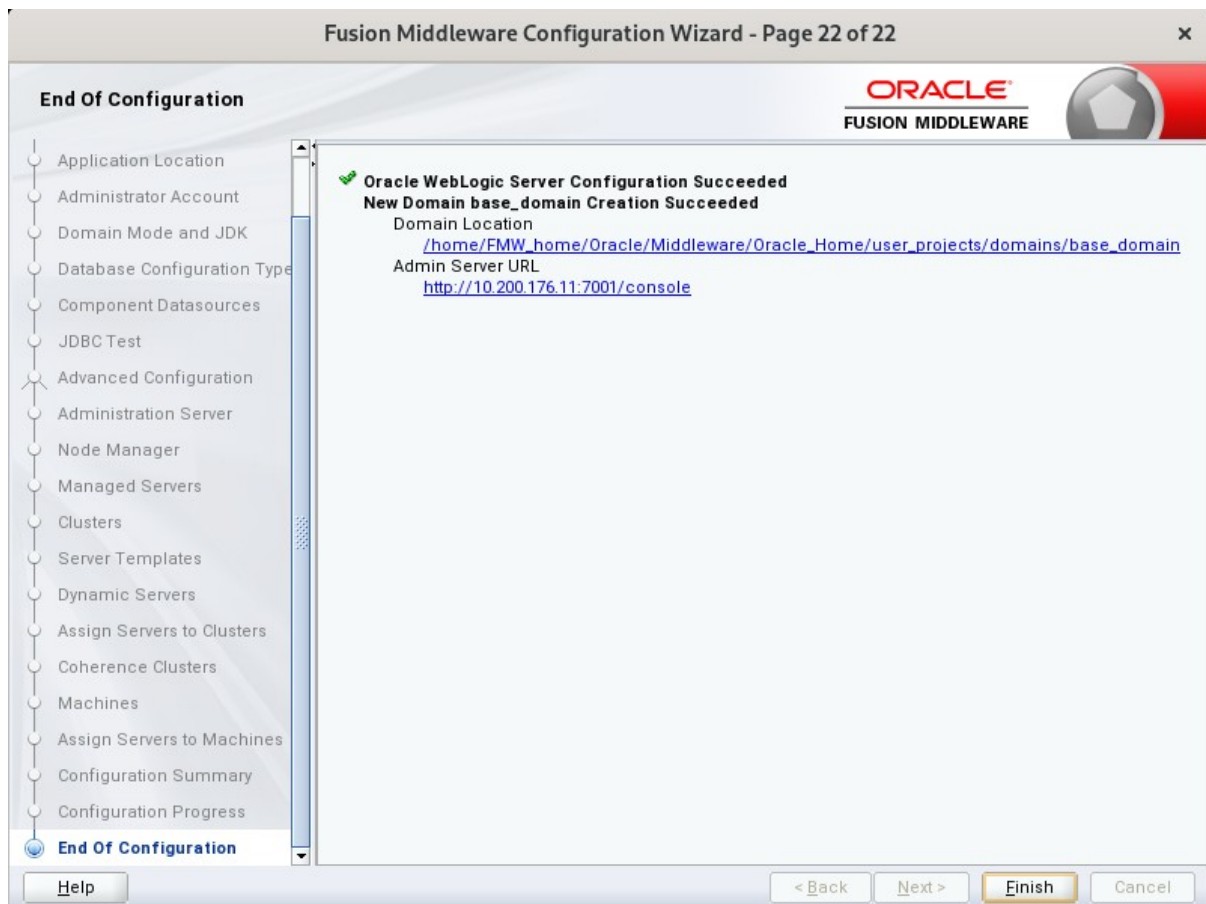
Select **Create** to accept the above options and start creating and configuring a new domain.

21). 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.

22). The **End of Configuration** screen appears.



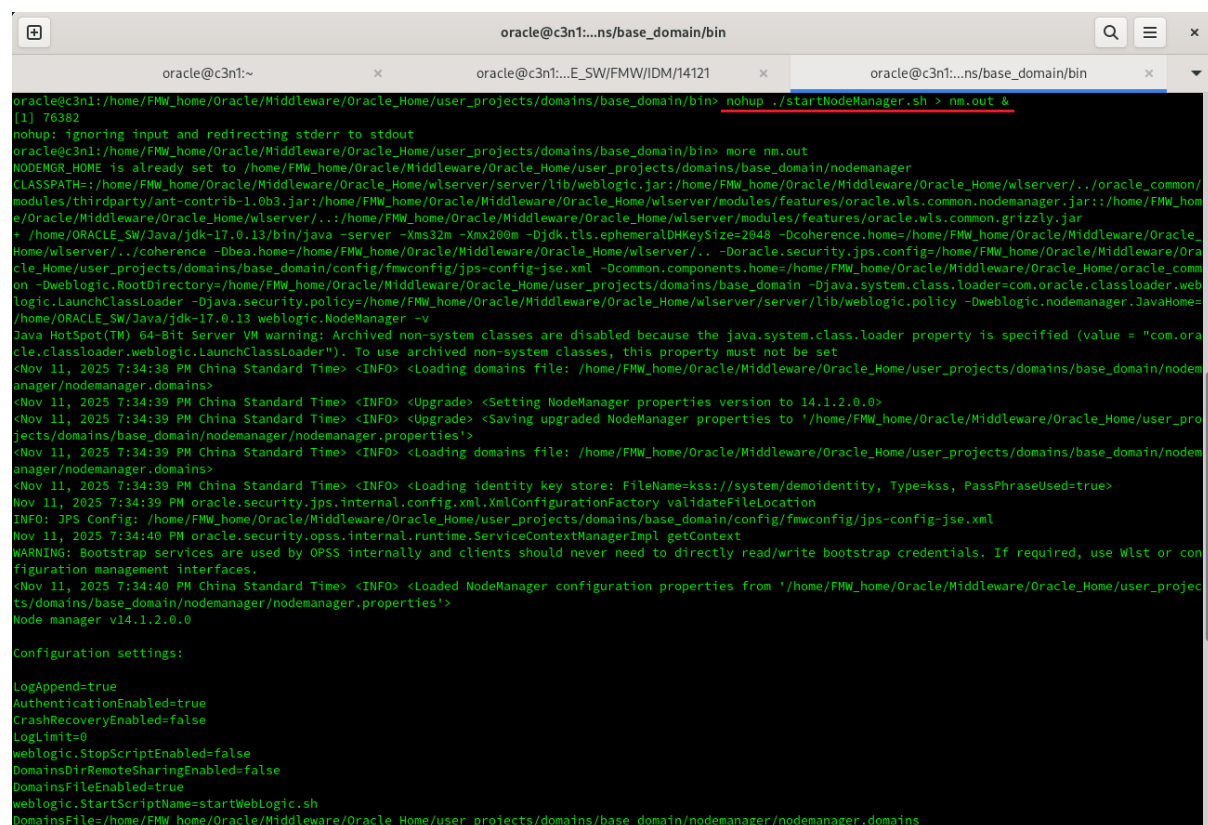
Once you see: "Oracle Weblogic Server Configuration Succeeded", record the '**Domain Location**' and '**Admin Server URL**', then click **Finish** to dismiss the Configuration Wizard.

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

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

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

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



```

oracle@c3n1:...ns/base_domain/bin
[1] 76382
nohup: ignoring input and redirecting stderr to stdout
oracle@c3n1:/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/bin> more nm.out
NODEMGR_HOME is already set to /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/nodemanager
CLASSPATH=:/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/server/lib/weblogic.jar:/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/modules/features/oracle.wls.common.nodemanager.jar:/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/modules/features/oracle.wls.common.grizzly.jar
+ /home/ORACLE_SW/java/jdk-17.0.13/bin/java -server -Xms32m -Xmx200m -Djdk.tls.ephemeralDHKeySize=2048 -Dcoherence.home=/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/.../coherence -Dbea.home=/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/... -Doracle.security.jps.config=/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/jps-config-jse.xml -Dcommon.components.home=/home/FMW_home/Oracle/Middleware/Oracle_Home/oracle_common -Dweblogic.BootDirectory=/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain -Djava.system.class.loader=com.oracle.classloader.weblogic.LaunchClassLoader -Djava.security.policies=/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/server/lib/weblogic.policy -Dweblogic.nodemanager.JavaHome=/home/ORACLE_SW/java/jdk-17.0.13/weblogic.NodeManager -v
Java HotSpot(TM) 64-Bit Server VM warning: Archived non-system classes are disabled because the java.system.class.loader property is specified (value = "com.oracle.classloader.weblogic.LaunchClassLoader"). To use archived non-system classes, this property must not be set
<Nov 11, 2025 7:34:38 PM China Standard Time> <INFO> <Loading domains file: /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/nodemanager/nodemanager.domains>
<Nov 11, 2025 7:34:39 PM China Standard Time> <INFO> <Upgrade> <Setting NodeManager properties version to 14.1.2.0.0>
<Nov 11, 2025 7:34:39 PM China Standard Time> <INFO> <Upgrade> <Saving upgraded NodeManager properties to '/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/nodemanager/nodemanager.properties'>
<Nov 11, 2025 7:34:39 PM China Standard Time> <INFO> <Loading domains file: /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/nodemanager/nodemanager.domains>
<Nov 11, 2025 7:34:39 PM China Standard Time> <INFO> <Loading identity key store: FileName=kss://system/demoidentity, Type=kss, PassPhraseUsed=true>
Nov 11, 2025 7:34:39 PM oracle.security.jps.internal.config.xml.XmlConfigurationFactory validateFileLocation
INFO: JPS Config: /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/jps-config-jse.xml
Nov 11, 2025 7:34:40 PM oracle.security.opss.internal.runtime.ServiceContextManagerImpl getContext
WARNING: Bootstrap services are used by OPSS internally and clients should never need to directly read/write bootstrap credentials. If required, use Wlst or configuration management interfaces.
<Nov 11, 2025 7:34:40 PM China Standard Time> <INFO> <Loaded NodeManager configuration properties from '/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/nodemanager/nodemanager.properties'>
Node manager v14.1.2.0.0

Configuration settings:

LogAppend=true
AuthenticationEnabled=true
CrashRecoveryEnabled=false
LogLimit=0
weblogic.StopScriptEnabled=false
DomainsDirRemoteSharingEnabled=false
DomainsFileEnabled=true
weblogic.StartScriptName=startWebLogic.sh
DomainsFile=/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/nodemanager/nodemanager.domains
  
```

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

```

oracle@c3n1:...ns/base_domain/bin
oracle@c3n1:~
oracle@c3n1:...E_SW/FMW/IDM/14121
oracle@c3n1:...ns/base_domain/bin
oracle@c3n1:...ns/base_domain/bin

<Nov 11, 2025, 7:48:55,845 PM China Standard Time> <Warning> <oracle.adfinternal.view.faces.partition.FeatureUtils> <ADF_FACES-30130> <Ignoring feature-dependen
cy on feature "AdfUIChoose". No such feature exists.>
<Nov 11, 2025, 7:48:59,829 PM China Standard Time> <Warning> <oracle.oam.foundation.access> <OAMSSA-05502> <Class declaration oracle.security.am.common.rest.key
store.SecurityAdminResource is invalid.>
<Nov 11, 2025, 7:48:59,831 PM China Standard Time> <Warning> <oracle.oam.foundation.access> <OAMSSA-05502> <Class declaration oracle.security.am.common.rest.key
store.SecurityAdminResource is invalid.>
<Nov 11, 2025, 7:41:00,618 PM China Standard Time> <Warning> <org.glassfish.jersey.servlet.init.JerseyServletContainerInitializer> <BEA-000000> <The Jersey serv
let application, named oracle.security.am.esso.admin.jersey.container.servlet.CustomApplicationImpl, is not annotated with ApplicationPath and has no servlet ma
pping.>
<Nov 11, 2025, 7:41:02,075 PM China Standard Time> <Warning> <oracle.oam.foundation.access> <OAMSSA-05502> <Class declaration oracle.security.am.common.rest.key
store.SecurityAdminResource is invalid.>
<Nov 11, 2025, 7:41:02,076 PM China Standard Time> <Warning> <oracle.oam.foundation.access> <OAMSSA-05502> <Class declaration oracle.security.am.common.rest.key
store.SecurityAdminResource is invalid.>
<Nov 11, 2025, 7:41:04,577 PM China Standard Time> <Warning> <oracle.adfinternal.view.faces.partition.FeatureUtils> <ADF_FACES-30130> <Ignoring feature-dependen
cy on feature "AdfUIChoose". No such feature exists.>
2025-11-11 19:41:04.722/285.276 Oracle Coherence GE 14.1.2.0.0 <Info> (thread=[STANDBY] ExecuteThread: '1' for queue: 'weblogic.kernel.Default (self-tuning)', m
ember=n/a): Loaded cache configuration from "jar:file:/home/FMW_home/Oracle/Middleware/Oracle_Home/oracle_common/modules/oracle.wsm.common/wsm-agent-core.jar!/o
racle-wsm-coherence-cache-config.xml"
2025-11-11 19:41:04.739/285.293 Oracle Coherence GE 14.1.2.0.0 <D5> (thread=[STANDBY] ExecuteThread: '1' for queue: 'weblogic.kernel.Default (self-tuning)', mem
ber=n/a): Created cache factory com.tangosol.net.ExtensibleConfigurableCacheFactory
<Nov 11, 2025, 7:41:05,070 PM China Standard Time> <Notice> <Log Management> <BEA-170027> <The server has successfully established a connection with the Domain
Level Diagnostic Service.>
<Nov 11, 2025, 7:41:05,310 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to ADMIN.>
<Nov 11, 2025, 7:41:05,343 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to RESUMING.>
<Nov 11, 2025, 7:41:05,343 PM China Standard Time> <Notice> <JMX> <BEA-149535> <JMX Resiliency Activity Server=All Servers : Resolving connection list DomainRun
timeServiceMBean>
<Nov 11, 2025, 7:41:05,476 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000398> <Secure mode enabled for WebLogic Server "AdminServer".>
<Nov 11, 2025, 7:41:05,476 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000329> <Started the WebLogic Server Administration Server "AdminServer" for d
omain "base_domain" running in production mode.>
<Nov 11, 2025, 7:41:05,479 PM China Standard Time> <Notice> <Server> <BEA-002613> <Channel "Default" is now listening on 10.200.176.11:7001 for protocols tiop,
t3, ldap, snmp, http.>
<Nov 11, 2025, 7:41:05,482 PM China Standard Time> <Warning> <Security> <BEA-090985> <Production Mode is enabled but the the file or directory /home/FMW_home/Or
acle/Middleware/Oracle_Home/user_projects/domains/base_domain/bin/nm.out is insecure since its permission is not a minimum of umask 027. SOLUTION: Change the fi
le or directory permission to at most allow only write by owner, read by group.>
<Nov 11, 2025, 7:41:05,484 PM China Standard Time> <Warning> <Security> <BEA-090983> <Secure Mode is enabled but the administration port is not enabled. SOLUTIO
N: Enable the administration port.>
<Nov 11, 2025, 7:41:05,484 PM China Standard Time> <Warning> <Security> <BEA-091033> <No dedicated network channel configured for HTTPS traffic. SOLUTION: Orac
le recommends creating a network channel for only HTTPS traffic for externally available applications. Configure your firewall so that the network channel is ava
ilable externally, and that the default network channel and other customer internal channels are only accessible internally.>
<Nov 11, 2025, 7:41:05,491 PM China Standard Time> <Warning> <Security> <BEA-091003> <Secure Mode requires that users in the Administrators group do not have ob
vious user names. SOLUTION: Change the user name "weblogic" so it is not a commonly used administrator name.>
<Nov 11, 2025, 7:41:05,625 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000360> <The server started in RUNNING mode.>
<Nov 11, 2025, 7:41:05,630 PM China Standard Time> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to RUNNING.>

```

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

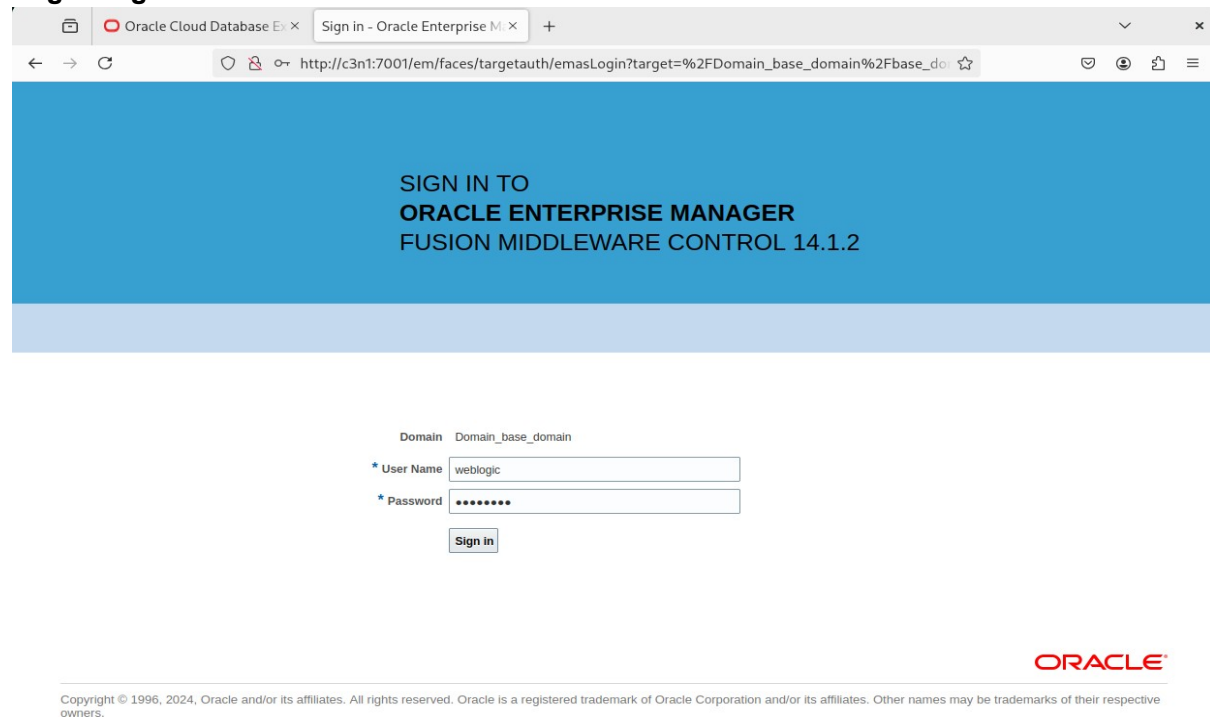
Server state changed to *RUNNING*.



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

1). Access to Enterprise Manager Console.

Login Page:



Domain Domain_base_domain

* User Name weblogic

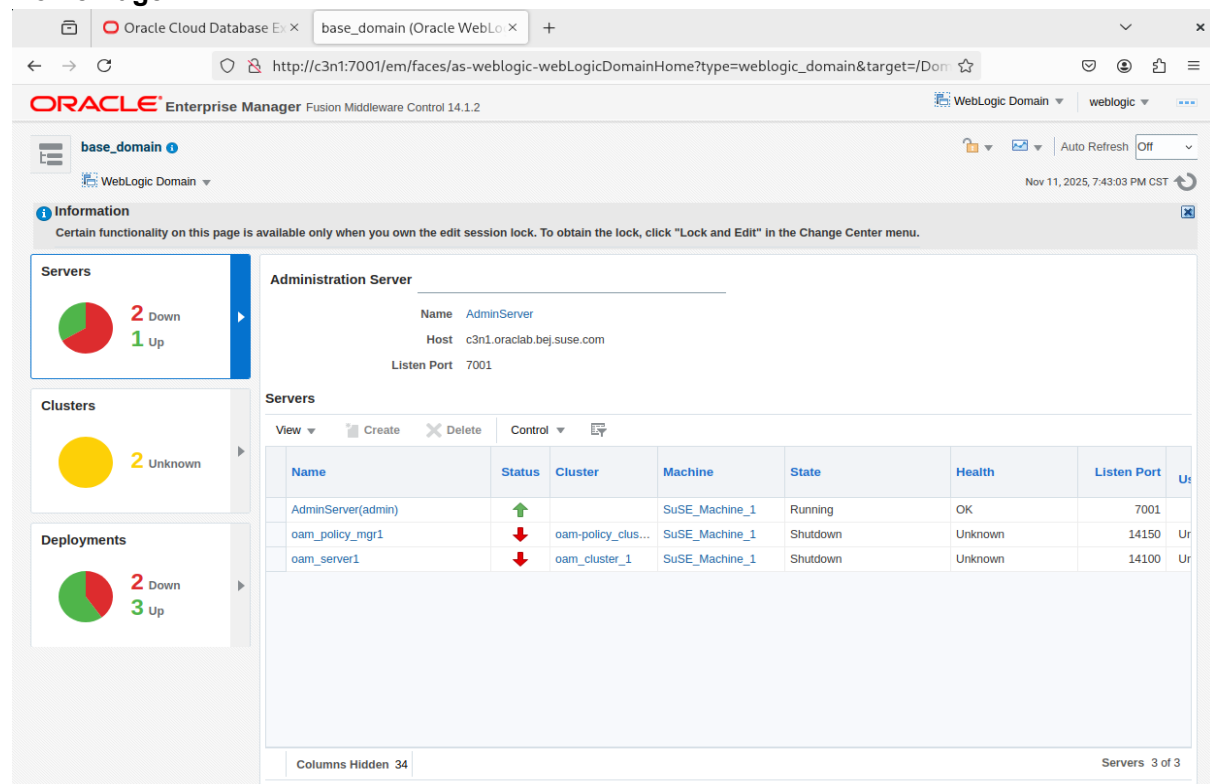
* Password

Sign in

ORACLE

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Home Page:



ORACLE Enterprise Manager Fusion Middleware Control 14.1.2

base_domain

WebLogic Domain

Nov 11, 2025, 7:43:03 PM CST

Information

Certain functionality on this page is available only when you own the edit session lock. To obtain the lock, click "Lock and Edit" in the Change Center menu.

Servers

2 Down
1 Up

Clusters

2 Unknown

Deployments

2 Down
3 Up

Administration Server

Name AdminServer

Host c3n1.oraclelab.bej.suse.com

Listen Port 7001

Servers

Name	Status	Cluster	Machine	State	Health	Listen Port	User
AdminServer(admin)	Running		SuSE_Machine_1	Running	OK	7001	
oam_policy_mgr1	Shutdown	oam-policy_clus...	SuSE_Machine_1	Shutdown	Unknown	14150	Ur
oam_server1	Shutdown	oam_cluster_1	SuSE_Machine_1	Shutdown	Unknown	14100	Ur

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:

base_domain WebLogic Domain

Nov 11, 2025, 7:45:21 PM CST

Information
Certain functionality on this page is available only when you own the edit session lock. To obtain the lock, click "Lock and Edit" in the Change Center menu.

Servers
1 Down
2 Up

Clusters
1 Down
1 Unknown

Deployments
1 Down
4 Up

Administration Server
Name: AdminServer
Host: c3n1.oraclelab.bej.suse.com
Listen Port: 7001

Servers

Name	Status	Cluster	Machine	State	Health	Listen Port	CP
AdminServer(admin)	↑		SuSE_Machine_1	Running	OK	7001	
oam_policy_mgr1	↓	oam-policy_cluster_1	SuSE_Machine_1	Shutdown	Unknown	14150	Ur
oam_server1	↑	oam_cluster_1	SuSE_Machine_1	Running	OK	14100	Ur

Columns Hidden 34 Servers 3 of 3

base_domain WebLogic Domain

Nov 11, 2025, 7:49:20 PM CST

Information
Certain functionality on this page is available only when you own the edit session lock. To obtain the lock, click "Lock and Edit" in the Change Center menu.

Servers
3 Up

Clusters
2 Up

Deployments
5 Up

Administration Server
Name: AdminServer
Host: c3n1.oraclelab.bej.suse.com
Listen Port: 7001

Servers

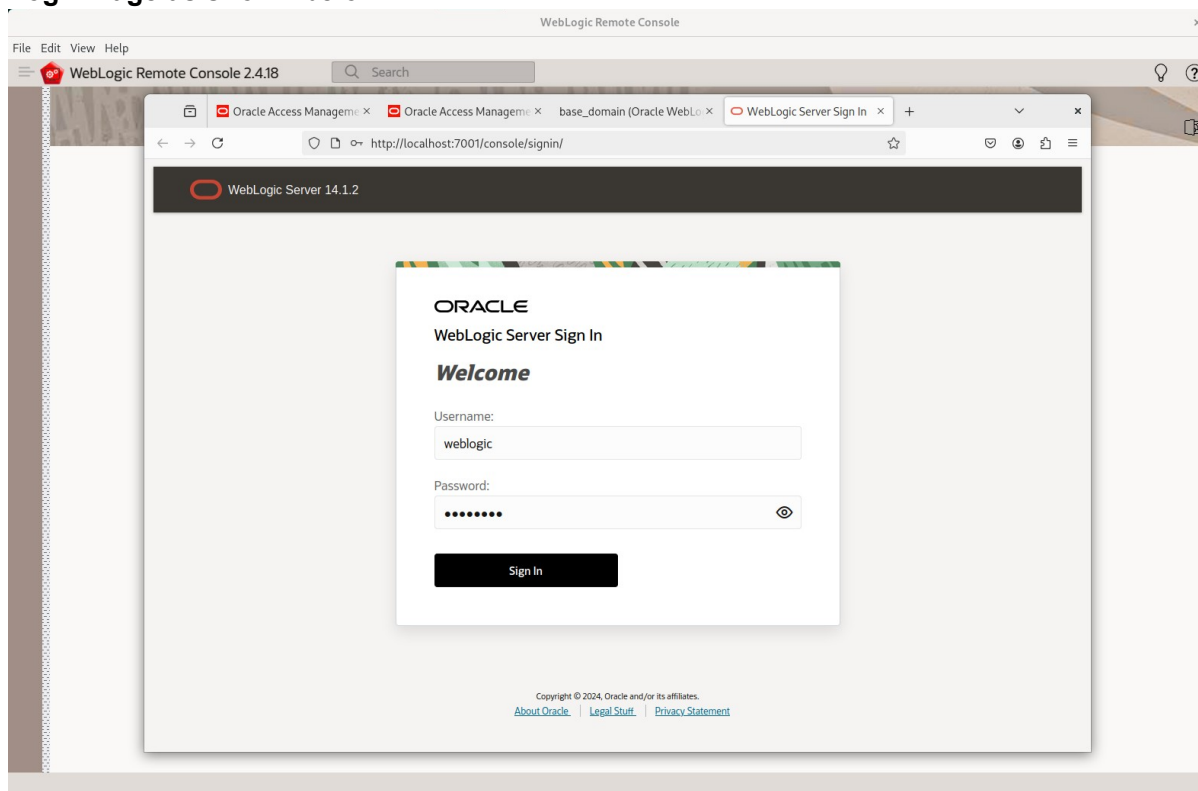
Name	Status	Cluster	Machine	State	Health	Listen Port	U
AdminServer(admin)	↑		SuSE_Machine_1	Running	OK	7001	
oam_policy_mgr1	↑	oam-policy_clus...	SuSE_Machine_1	Running	OK	14150	Ur
oam_server1	↑	oam_cluster_1	SuSE_Machine_1	Running	OK	14100	

Columns Hidden 34 Servers 3 of 3

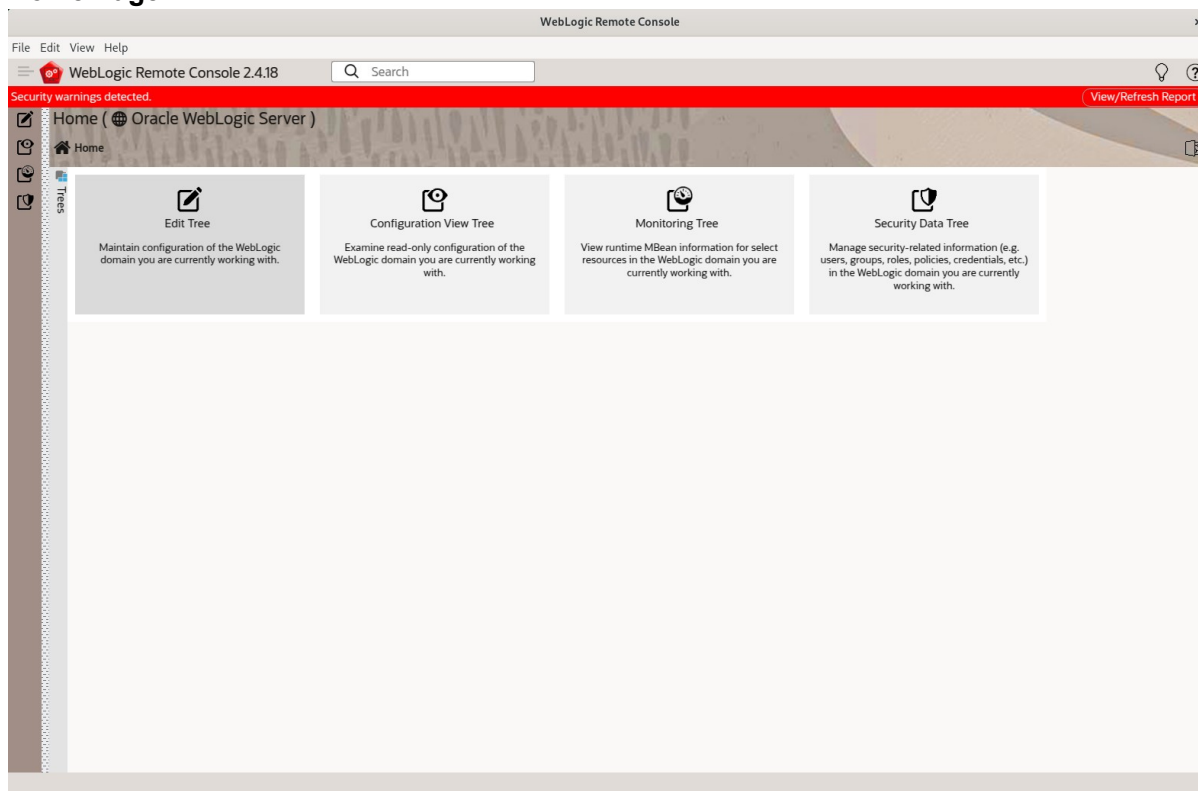
After they start up successfully, each managed server is listed as Running.

2). Access to Administration Server Console through WebLogic Remote Console.

Login Page as shown below:



Home Page:



Viewing the summary of servers:

WebLogic Remote Console - ServerRuntimes

File Edit View Help

WebLogic Remote Console 2.4.18

Security warnings detected. [View/Refresh Report](#)

Monitoring Tree (Oracle WebLogic Server)

Home

Servers

Customize Table New Dashboard

A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration.

This page includes the monitoring data for each configured and/or running server in the current WebLogic Server domain.

Note: a managed server's State is 'Unreachable' when the administration server is unable to communicate with it. You can navigate to the managed server to get more information about its state. You can also customize this table to display the 'Server Life Cycle State' column, however doing so negatively impact the performance of this page.

Start Resume Suspend Shutdown Restart SSL

	Name	State	Current Machine	Complete Reqs	Open Sockets	Health	Stuck Threads	Hogging Threads
<input type="checkbox"/>	AdminServer	Running	SuSE_Machine_1	9241	9	Okay	0	0
<input type="checkbox"/>	oam_policy_mgr1	Running	SuSE_Machine_1	2139	3	Okay	0	0
<input type="checkbox"/>	oam_server1	Running	SuSE_Machine_1	5674	3	Okay	0	0

Total Rows: 3

Verify that the Admin Server can connect to the node manager running on your machine.

WebLogic Remote Console - NodeManagerRuntimes

File Edit View Help

WebLogic Remote Console 2.4.18

Security warnings detected. [View/Refresh Report](#)

Monitoring Tree (Oracle WebLogic Server)

Home

Node Manager Logs

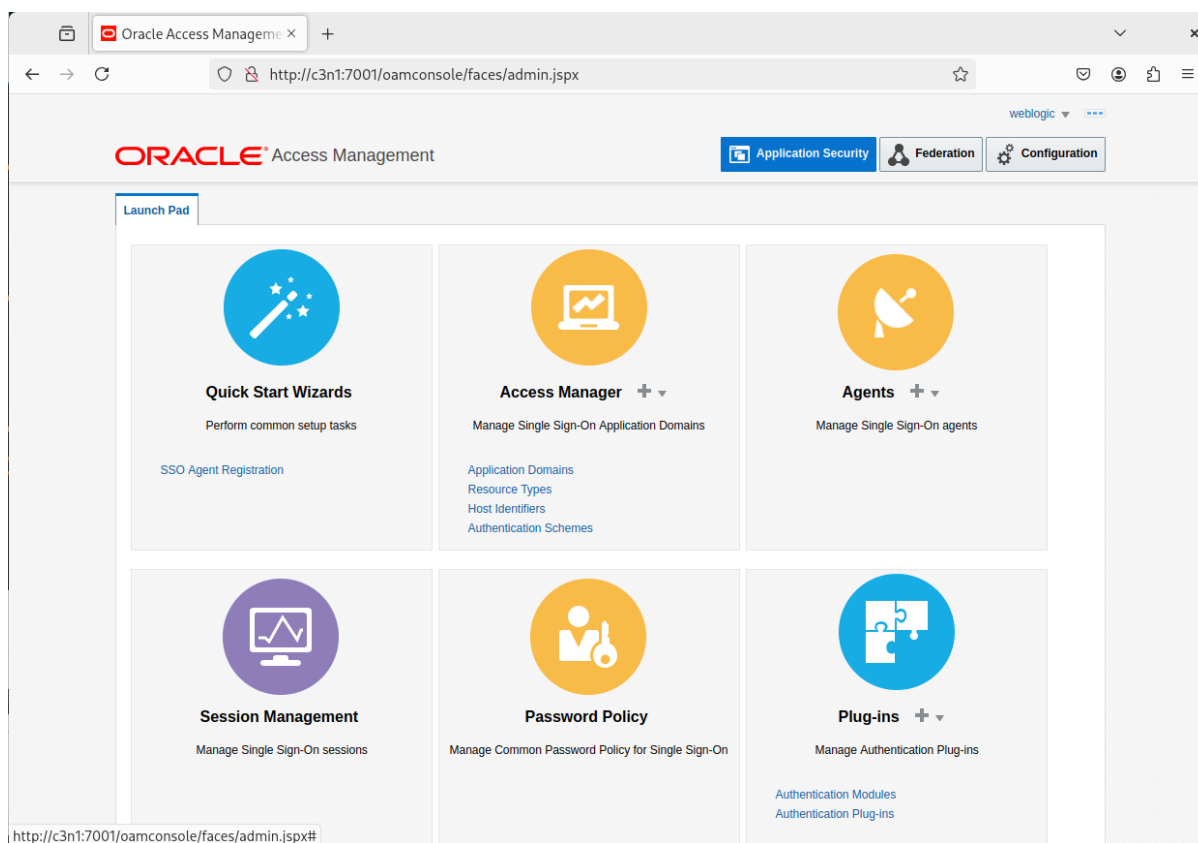
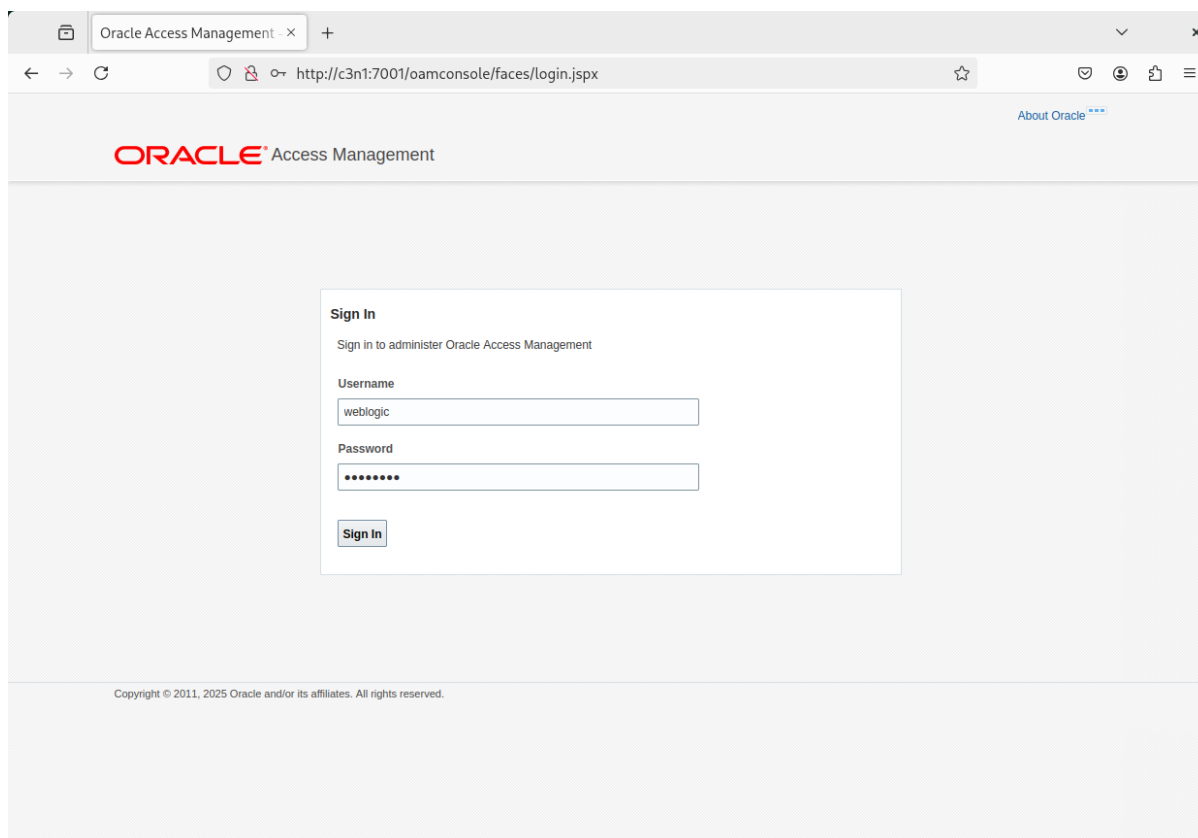
Customize Table New Dashboard

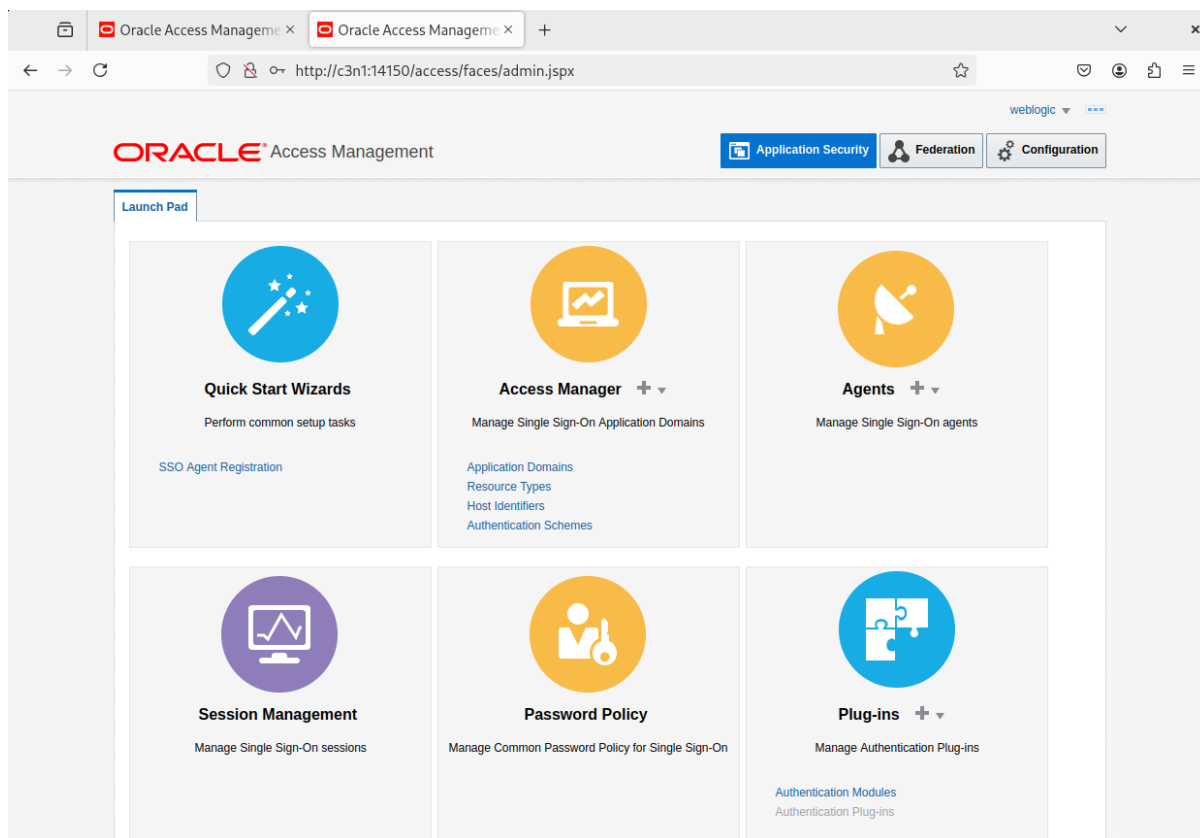
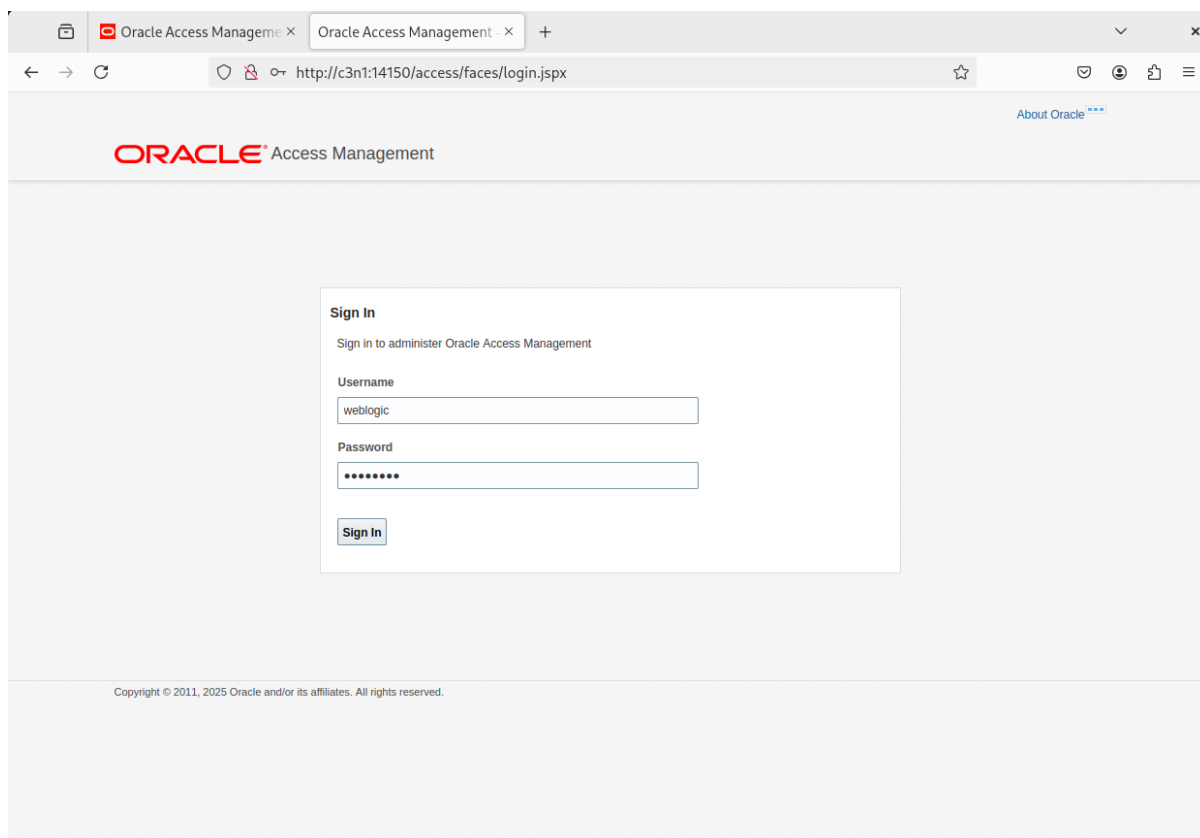
Provides methods for retrieving runtime information about a server instance and for transitioning a server from one state to another.

	Name	Reachable	Log
	SuSE_Machine_1	true	Download

Total Rows: 1

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



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

Oracle Access Management

Application Security Federation Configuration

Launch Pad Create Application Domain x

Access Manager >

Create Application Domain Application Domain

Application Domain provides a logical container for resources or sets of resources, and the associated policies that dictate who can access specific protected resources.

Summary

* Name Oracle Access Management on sles15 SP7

Description

* Session Idle Timeout (minutes) 0

Enable Policy Ordering ☐

Apply

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Oracle Access Management

Application Security Federation Configuration

Launch Pad Oracle Access Management ... x

Access Manager >

Oracle Access Management on sles15 SP7 Application Domain

Application Domain provides a logical container for resources or sets of resources, and the associated policies that dictate who can access specific protected resources.

Confirmation

Application Domain, Oracle Access Management on sles15 SP7, created successfully

Summary Resources Authentication Policies Authorization Policies Token Issuance Policies Administration

* Name Oracle Access Management on sles15 SP7

Description

* Session Idle Timeout (minutes) 0

Enable Policy Ordering ☐

Apply

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End of Oracle Access Manager.

Oracle Identity Manager

1. Installing Oracle Identity and Access Management 14c software

1-1. Prerequisites:

Installation of Oracle Identity and Access Management requires:

- 1). Oracle Database 19c installed.

(Note: With DB version 19c, XA transaction recovery views/synonyms are required by the OIM Schema. To install these views/synonyms via the initxa.sql and xaview.sql scripts.

```
SQL> @/home/oracle/db_19c/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.
```


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	integer	1600

```
SQL> █
```

-)
- 2). Oracle JDK 17.0.12 or later installed.

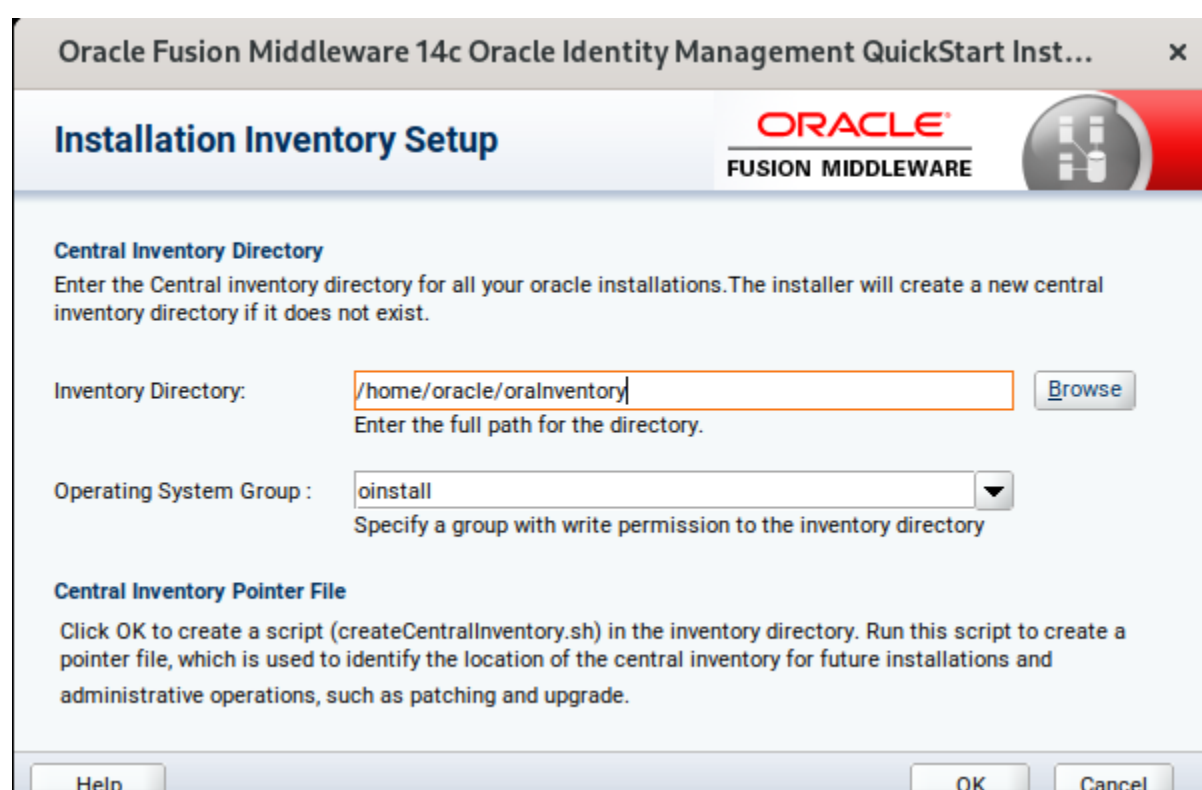
1-2. Log in to the target system (SLES 15 SP7 64-bit OS) as a non-admin user. Download the Oracle Identity and Access Management 14c (14.1.2.1.0) generic installer .zip file from <http://www.oracle.com/technetwork/indexes/downloads/index.html#middleware>.

(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 the .zip("V1048466-01.zip") file and launch the installation program by running `'java -jar fmw_14.1.2.1.0_idmquickstart.jar'`

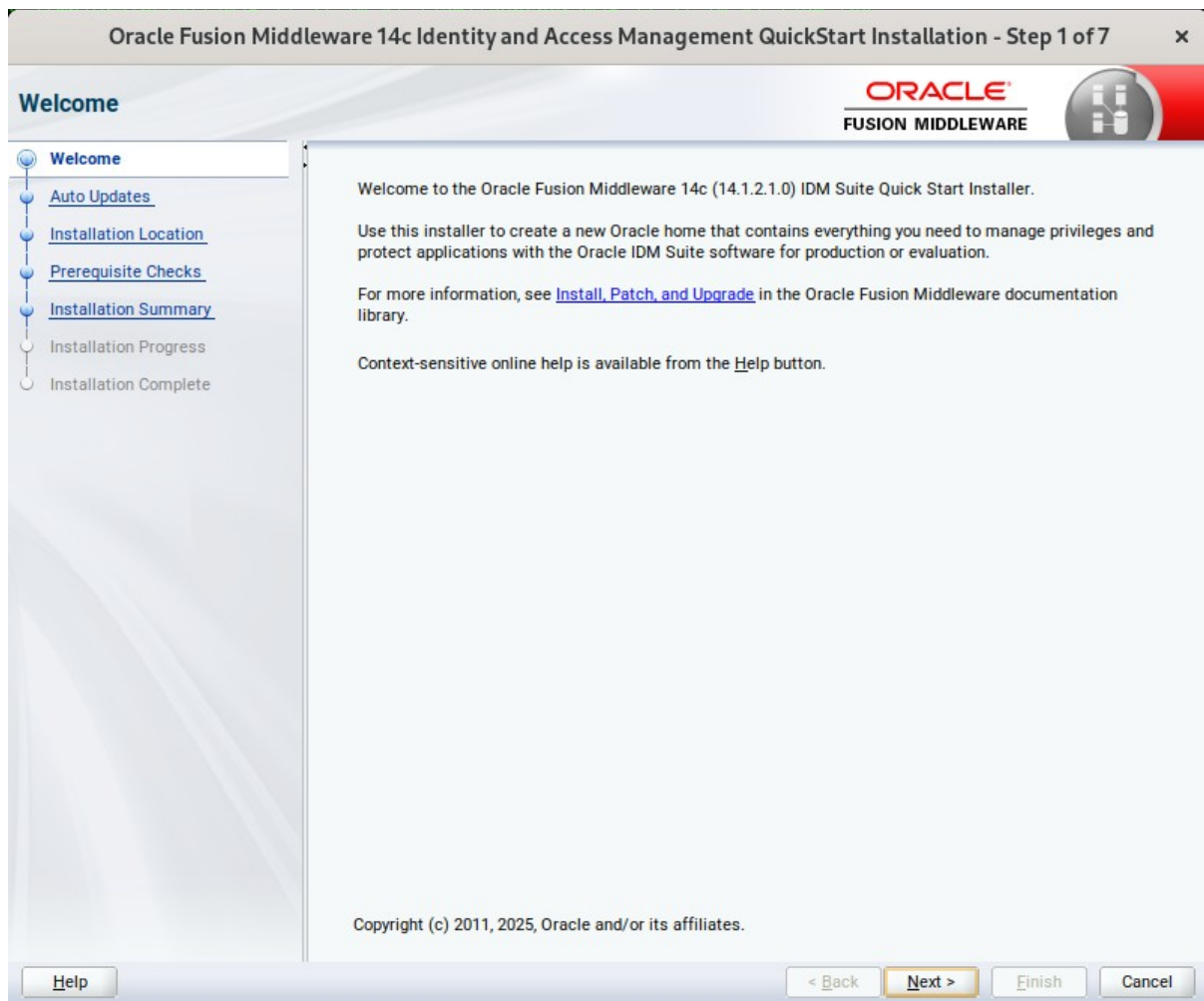
For the actual installation, follow the steps below:

1). Installation Inventory Setup.



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.



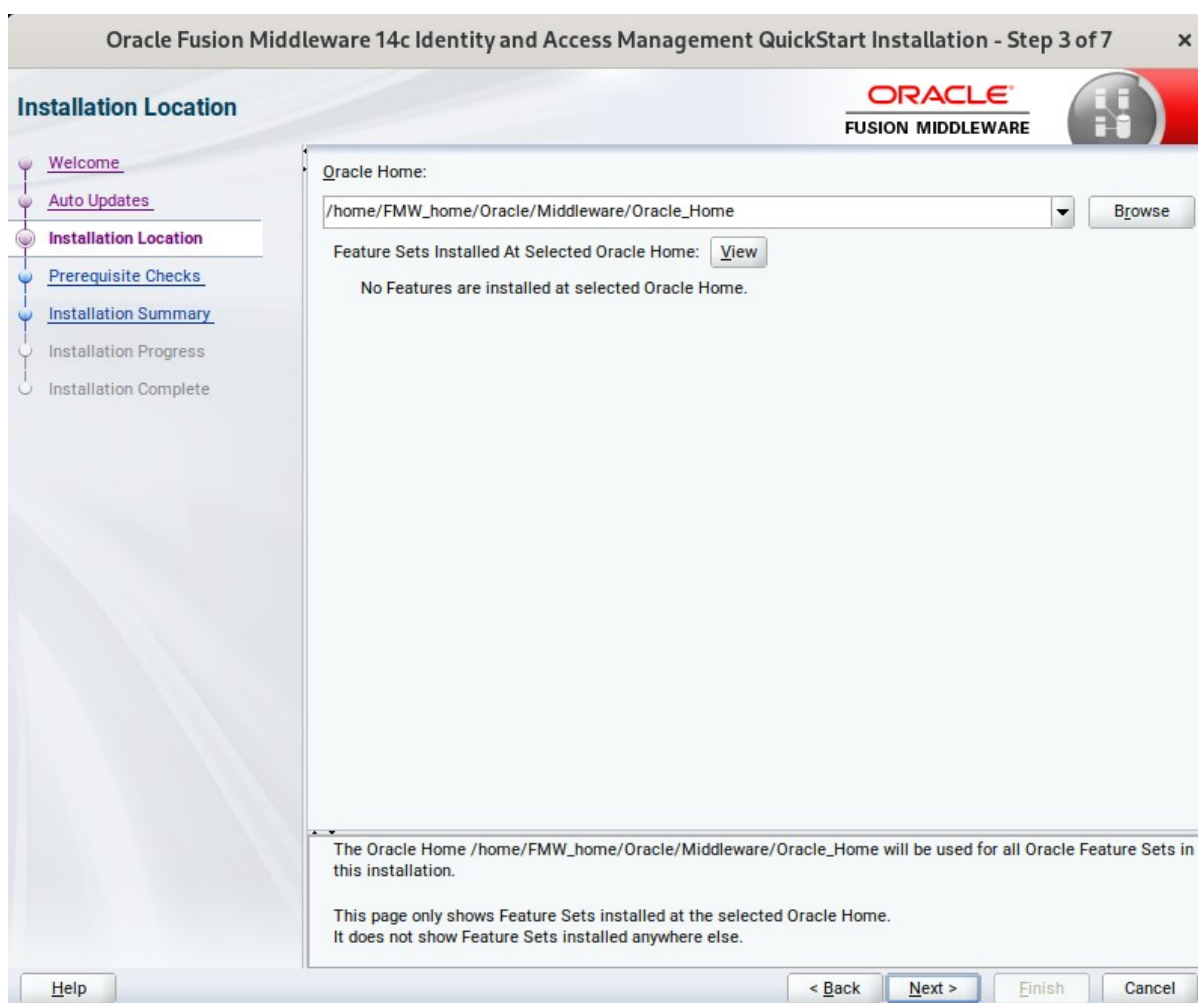
This page welcomes you to the installation. Click **Next** to continue.

3). The **Auto Updates** page appears.

The screenshot shows the 'Auto Updates' window in the Oracle Fusion Middleware 14c Identity and Access Management QuickStart Installation. The window title is 'Oracle Fusion Middleware 14c Identity and Access Management QuickStart Installation - Step 2 of 7'. The left sidebar contains a navigation menu with the following items: 'Welcome', 'Auto Updates' (selected), 'Installation Location', 'Prerequisite Checks', 'Installation Summary', 'Installation Progress', and 'Installation Complete'. The main content area has the 'ORACLE FUSION MIDDLEWARE' logo in the top right. The 'Auto Updates' section contains three radio buttons: 'Skip Auto Updates' (selected), 'Select patches from directory', and 'Search My Oracle Support for Updates'. Below 'Select patches from directory' is a 'Location:' text box and a 'Browse' button. Below 'Search My Oracle Support for Updates' are 'Username:' and 'Password:' text boxes, a 'Proxy Settings' button, and a 'Test Connection' button. A 'Search' button is located below the 'Search My Oracle Support for Updates' section. A large empty rectangular box is positioned below the 'Search' button. At the bottom of the window are buttons for 'Help', '< Back', 'Next >', 'Finish', and 'Cancel'.

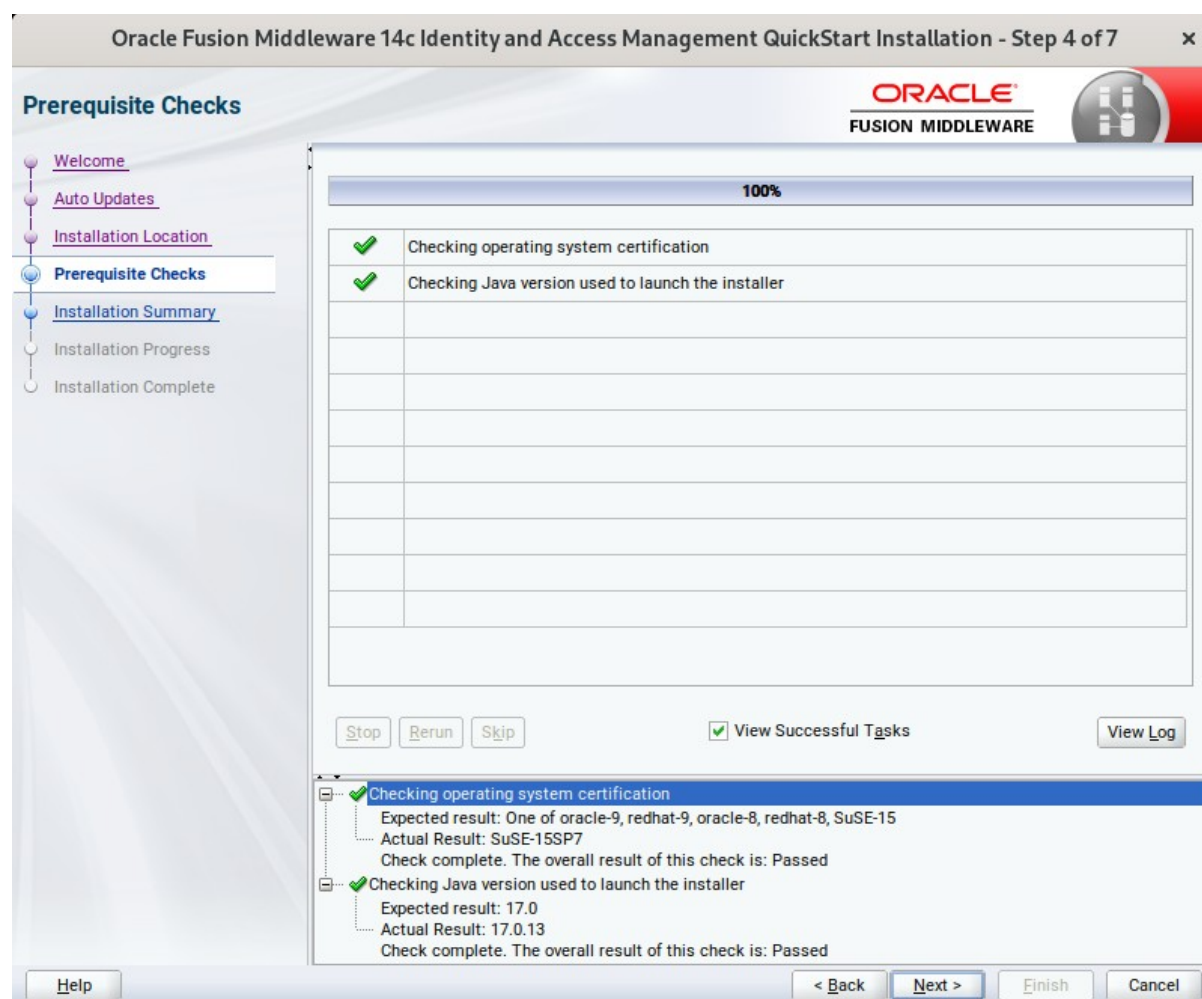
This screen helps to quickly and easily search for the latest software updates, including important security updates, via your My Oracle Support account. Make your choices, then click **Next** to continue.

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



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

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



This page 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.

(Note:

1). Oracle Fusion Middleware 14c (14.1.2.0.0) - Minimum Requirements for the SLES OS.

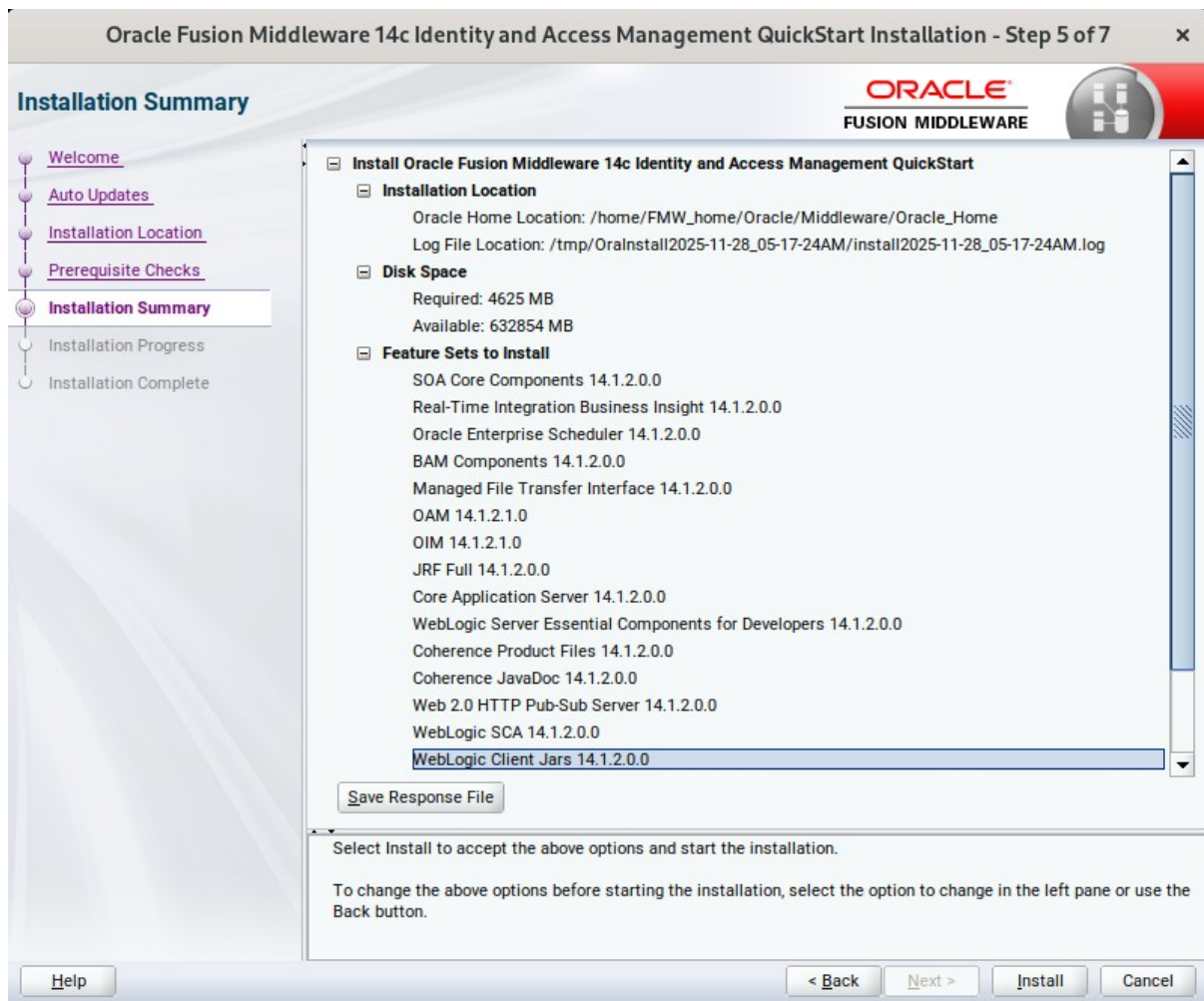
SUSE Linux Enterprise Server 15 (SP6+)

2). Required Packages - Please ensure following packages(or later versions) are installed.

```
binutils-2.41-150100.7.46.1-x86_64
glibc-2.38-150600.12.1-x86_64
linux-glibc-devel-6.4-150600.2.17-x86_64
glibc-devel-2.38-150600.12.1-x86_64
glibc-locale-2.38-150600.12.1-x86_64
glibc-extra-2.38-150600.12.1-x86_64
glibc-32bit-2.38-150600.12.1-x86_64
glibc-devel-32bit-2.38-150600.12.1-x86_64
```

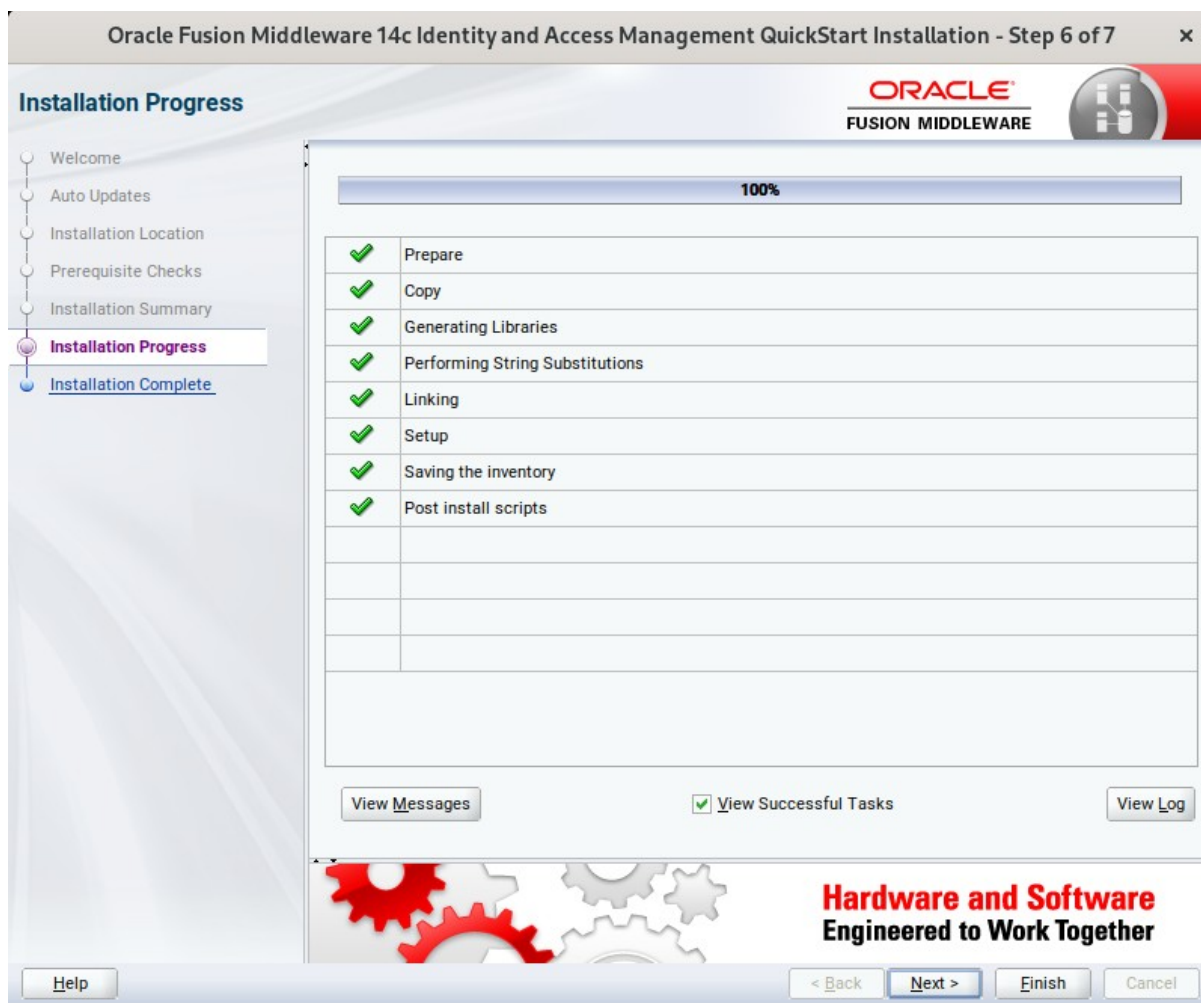
mksh-56c-1.10-x86_64
libaio1-0.3.109-1.25-x86_64
libaio1-32bit-0.3.109-1.25-x86_64
libaio-devel-32bit-0.3.109-1.25-x86_64
libaio-devel-0.3.109-1.25-x86_64
libcap2-2.63-150400.3.3.1-x86_64
libcap-ng0-0.7.9-4.37-x86_64
libcap2-32bit-2.63-150400.3.3.1-x86_64
libstdc++6-13.2.1+git8285-150000.1.9.1-x86_64
libstdc++6-devel-gcc7-7.5.0+r278197-150000.4.41.1-x86_64
libstdc++6-32bit-13.2.1+git8285-150000.1.9.1-x86_64
libstdc++6-devel-gcc7-32bit-7.5.0+r278197-150000.4.41.1-x86_64
libstdc++6-locale-13.2.1+git8285-150000.1.9.1-x86_64
libstdc++-devel-7-3.9.1-x86_64
libgcc_s1-13.2.1+git8285-150000.1.9.1-x86_64
libgcc_s1-32bit-13.2.1+git8285-150000.1.9.1-x86_64
make-4.2.1-7.3.2-x86_64
make-lang-4.2.1-7.3.2-noarch
makedumpfile-1.7.4-150600.1.3-x86_64
xorg-x11-7.6_1-1.22-noarch
xorg-x11-server-21.1.11-150600.3.2-x86_64
xorg-x11-fonts-7.6-13.6.1-noarch
xorg-x11-driver-video-7.6_1-9.10-x86_64
xorg-x11-Xvnc-1.13.1-150600.2.6-x86_64
xorg-x11-fonts-core-7.6-13.6.1-noarch
xorg-x11-server-extra-21.1.11-150600.3.2-x86_64
xorg-x11-essentials-7.6_1-1.22-noarch
)

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



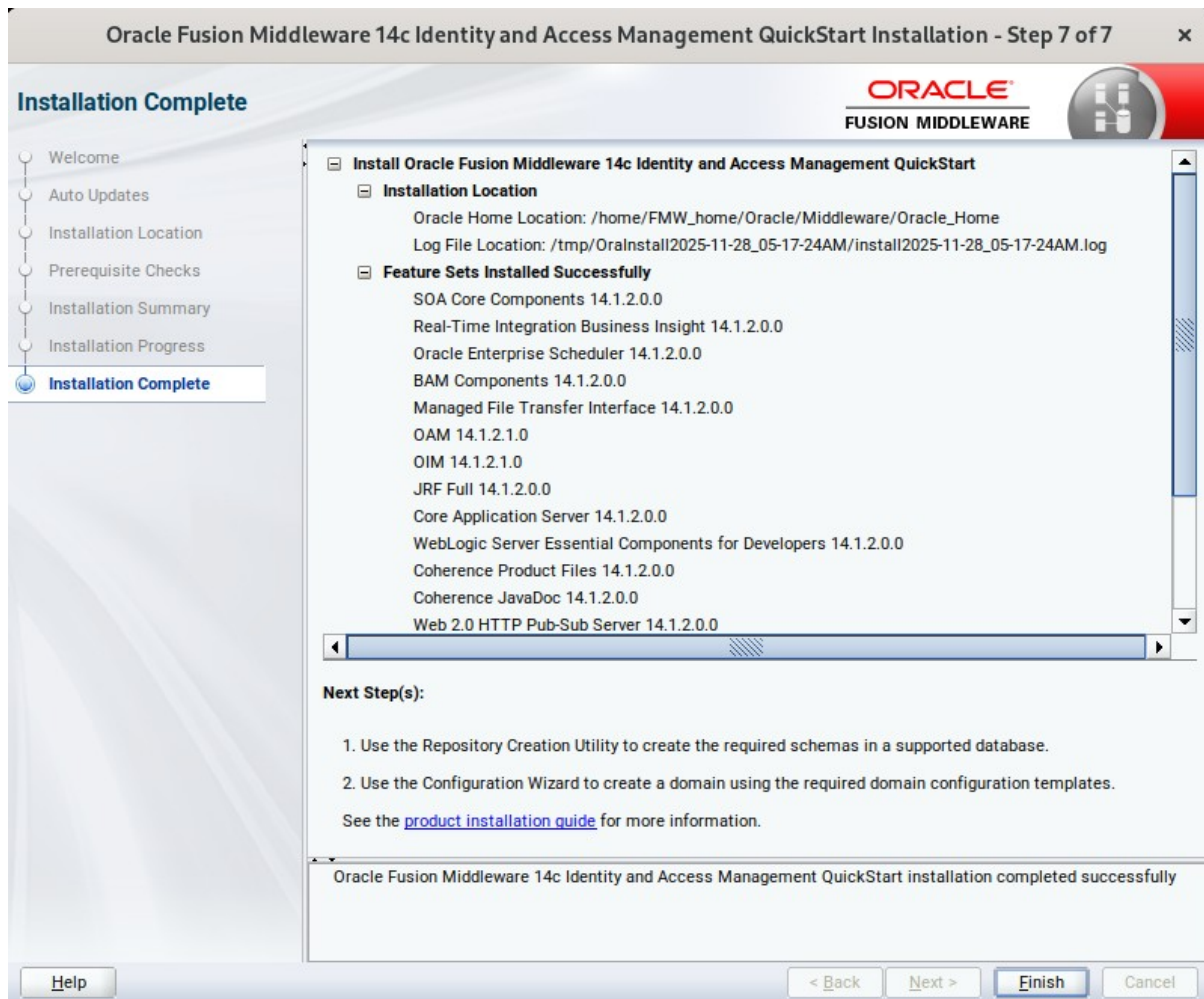
This page shows you what components and features are about to be installed. If you need to make changes, click **Back**, otherwise, click **Install** to start the installation.

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.



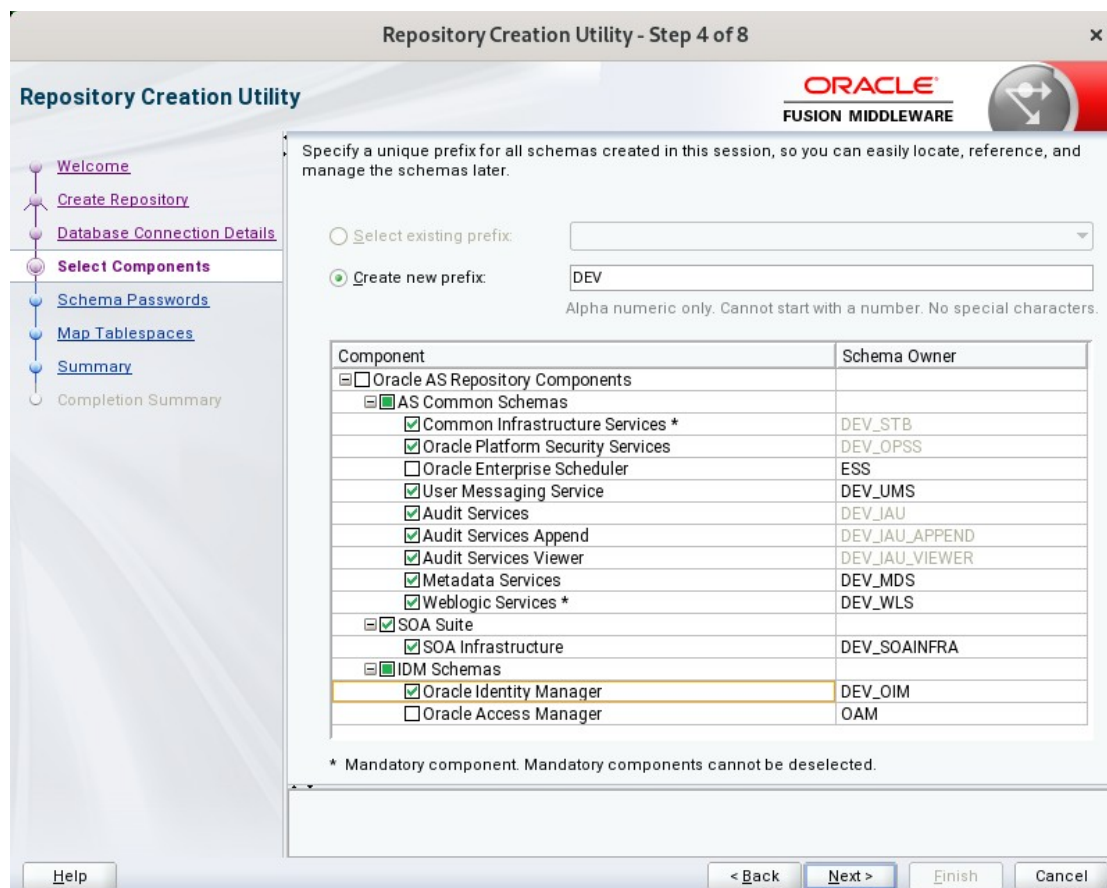
This screen displays the Installation Location and the Feature Sets that are installed. Review this information and click **Finish** to close the installer.

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 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.



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.

Ensure the schema creation is successful.

Repository Creation Utility - Step 9 of 9

Repository Creation Utility

ORACLE
FUSION MIDDLEWARE

Database details:

Host Name: c3n1-sles16wm
Port: 1521
Service Name: SUSEPDB1
Connected As: sys
Operation: System and Data Load concurrently
Execution Time: 5 minutes 41 seconds

RCU Logfile: /tmp/RCU2025-11-28_05-27_1158997936/logs/rcu.log
Component Log: /tmp/RCU2025-11-28_05-27_1158997936/logs
Directory: /tmp/RCU2025-11-28_05-27_1158997936/logs
View Log: rcu.log

Prefix for (prefixable): DEV
Schema Owners

Component	Status	Time	Logfile(Click to view)
Common Infrastructure Services	Success	00:10.019(sec)	stb.log
Oracle Platform Security Services	Success	00:28.092(sec)	opss.log
SOA Infrastructure	Success	01:28.239(min)	soainfra.log
Oracle Identity Manager	Success	01:46.645(min)	oim.log
User Messaging Service	Success	00:14.327(sec)	ucsums.log
Audit Services	Success	00:16.301(sec)	iau.log
Audit Services Append	Success	00:09.473(sec)	iau_append.log
Audit Services Viewer	Success	00:09.416(sec)	iau_viewer.log
Metadata Services	Success	00:16.902(sec)	mds.log
Weblogic Services	Success	00:22.327(sec)	wls.log

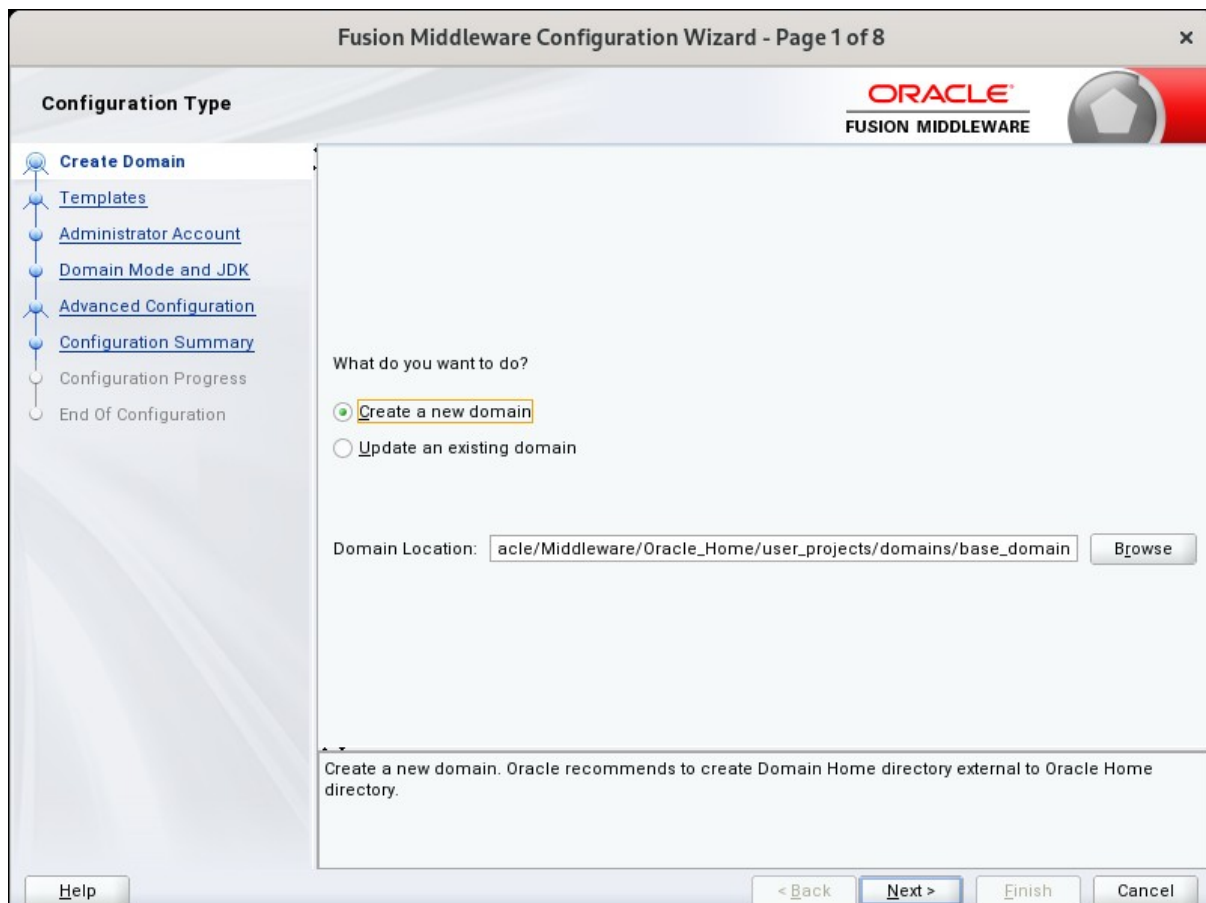
Help < Back Next > Create Close

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.

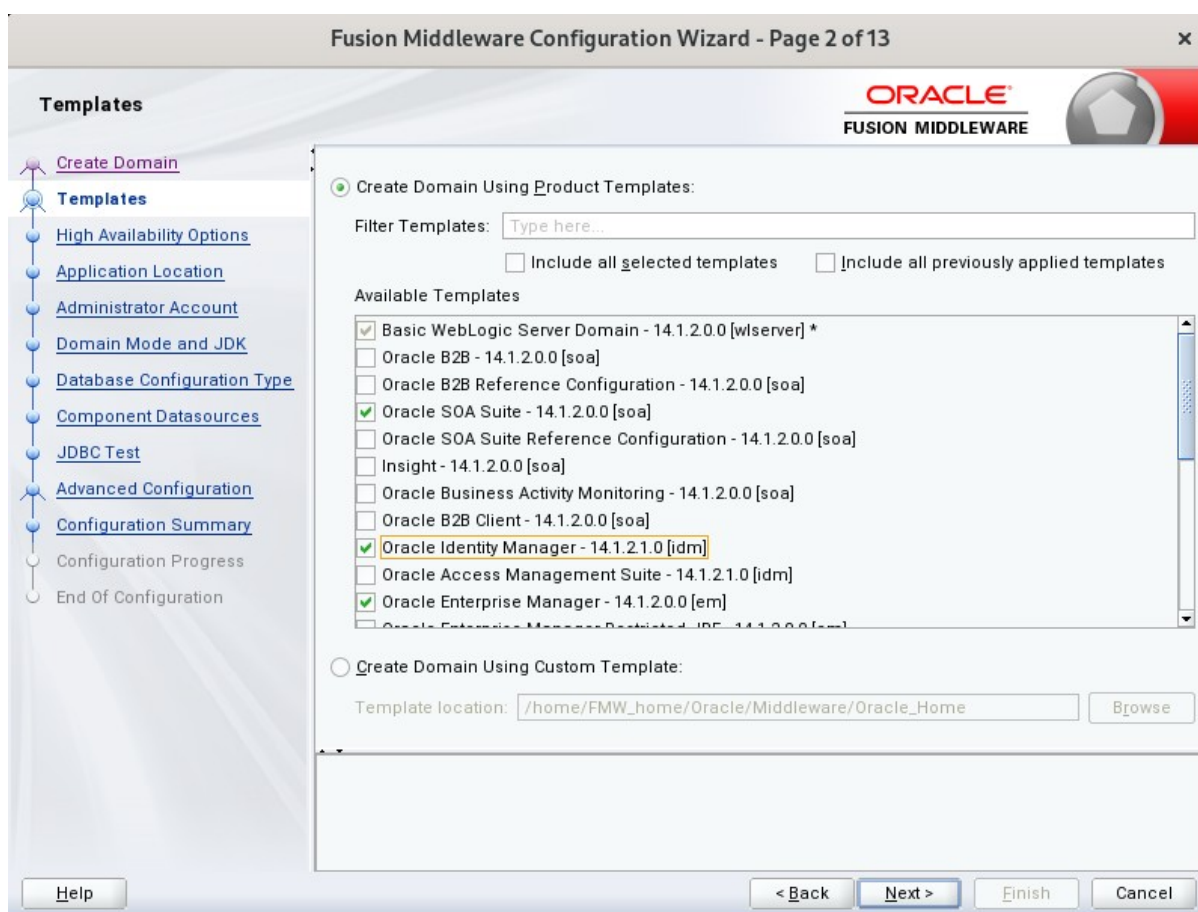
Follow these steps:

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



Click **Next** to continue.

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



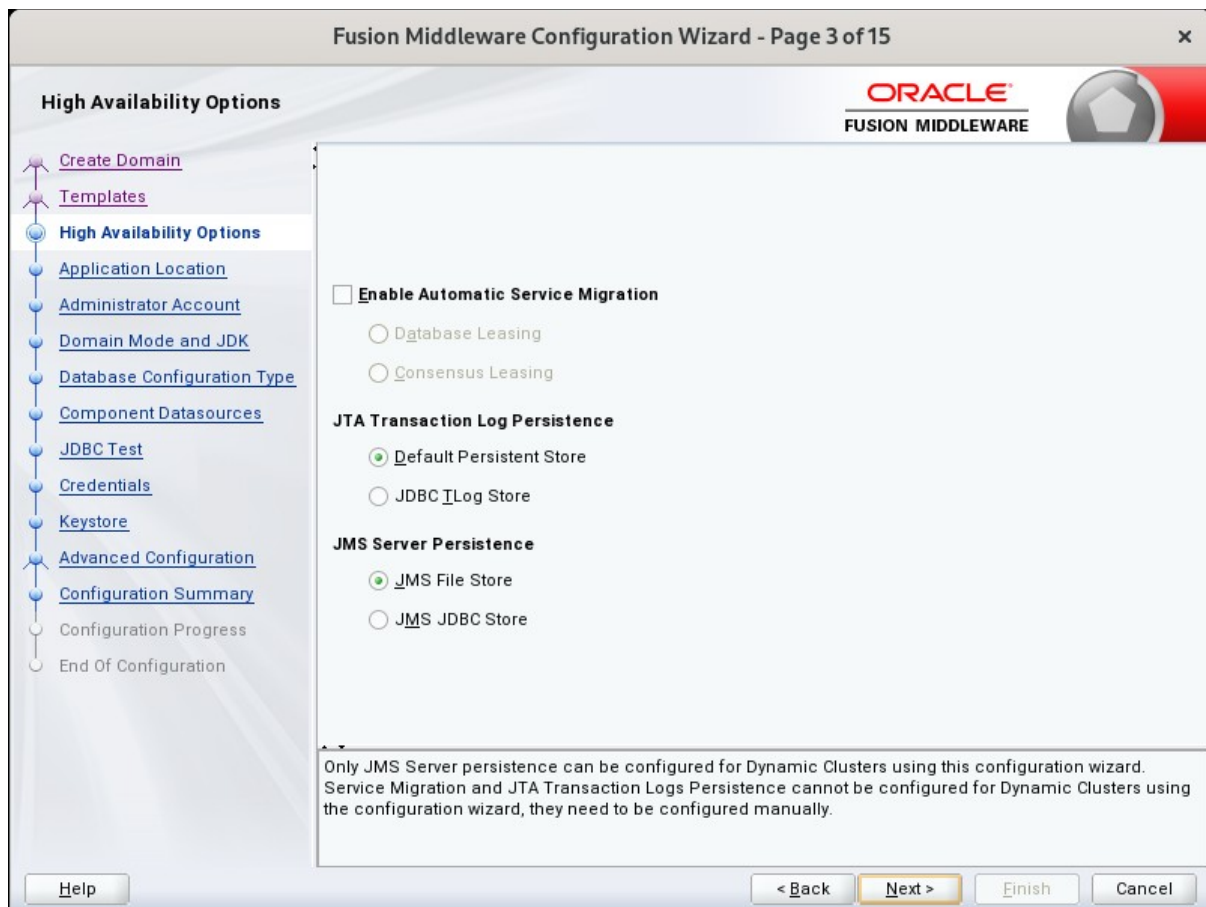
On the Templates screen, make sure **Create Domain Using Product Templates** is selected, then select the template **Oracle Identity Manager [idm]**.

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.



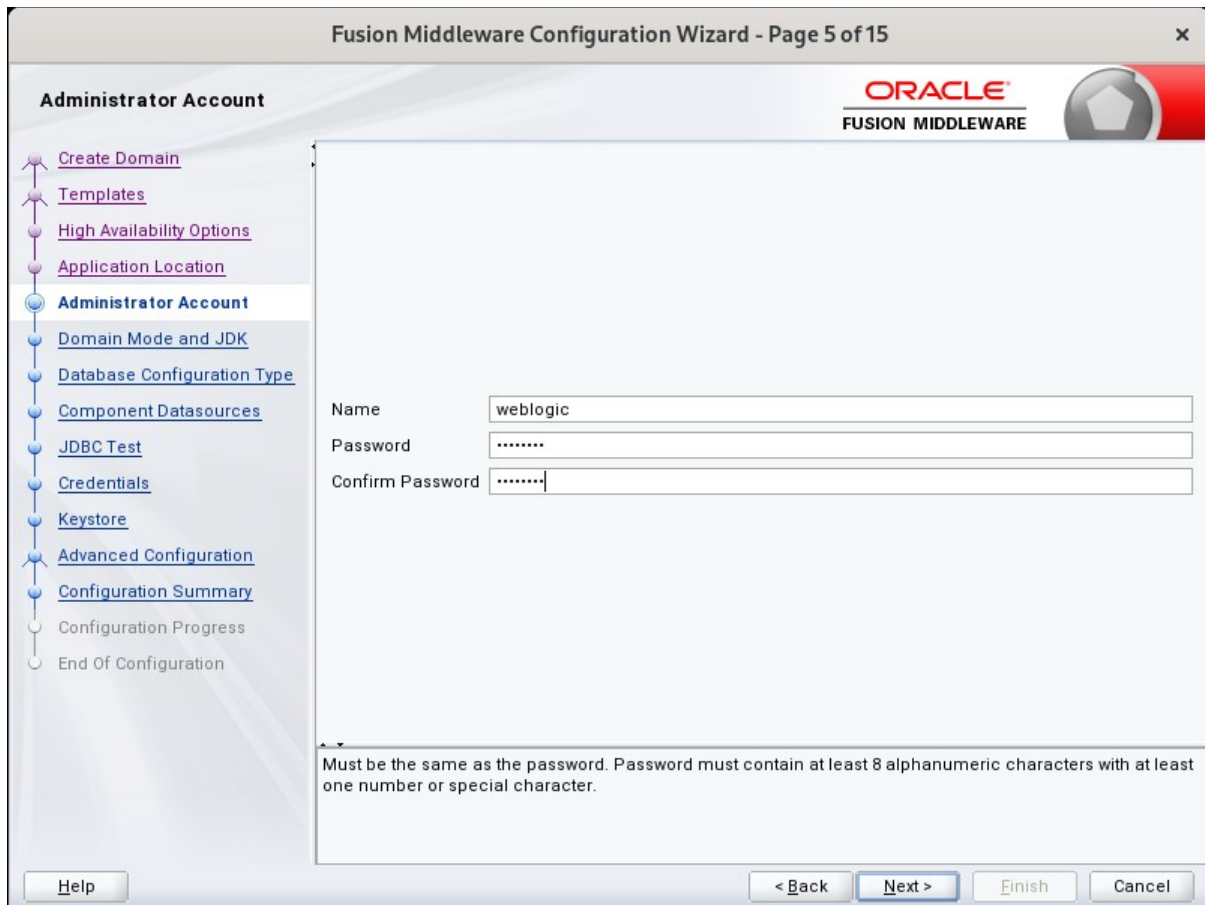
Keep the default value for Application location. Click **Next** to continue.

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



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

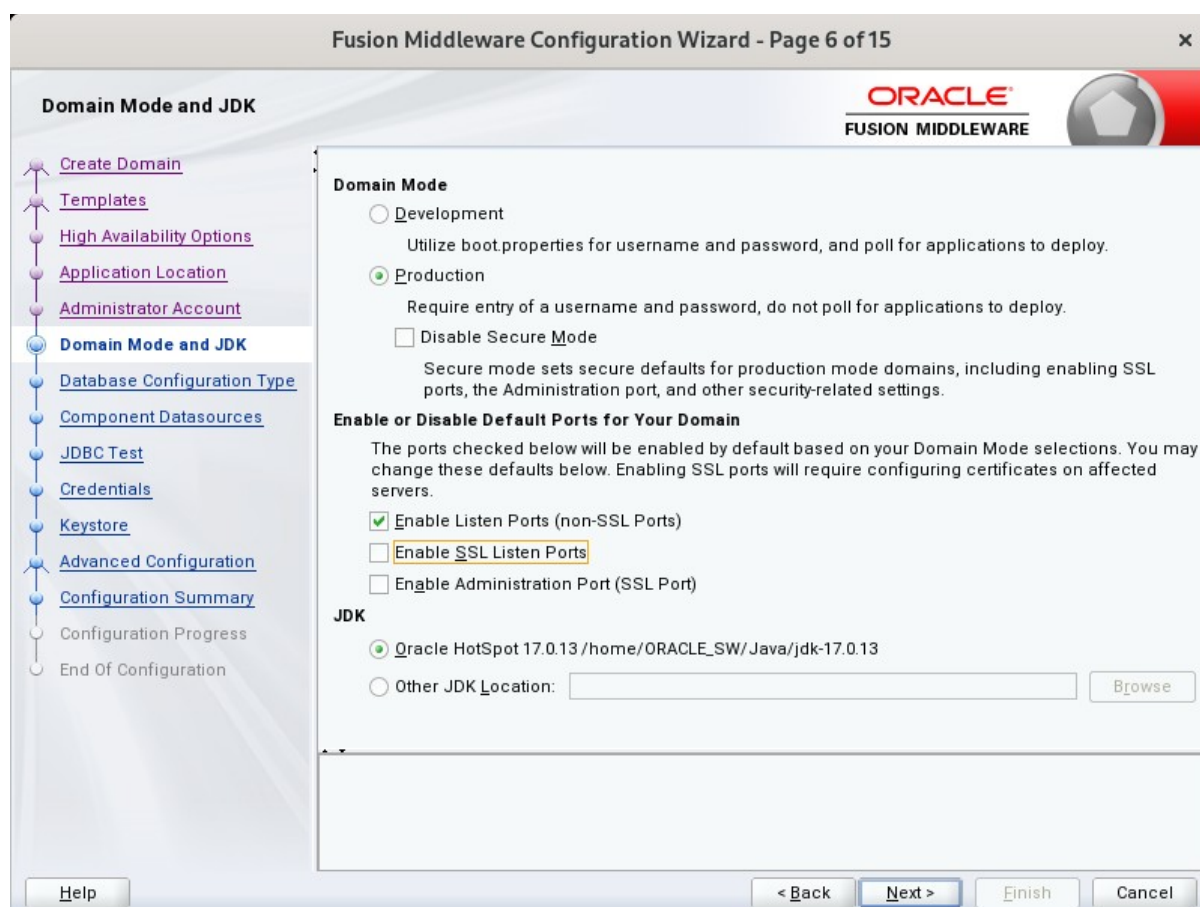
5). The **Administrator Account** screen appears.



The screenshot shows the 'Administrator Account' screen of the Fusion Middleware Configuration Wizard. The title bar indicates 'Fusion Middleware Configuration Wizard - Page 5 of 15'. The Oracle Fusion Middleware logo is in the top right. A left-hand navigation pane lists the following steps: Create Domain, Templates, High Availability Options, Application Location, **Administrator Account** (highlighted), Domain Mode and JDK, Database Configuration Type, Component Datasources, JDBC Test, Credentials, Keystore, Advanced Configuration, Configuration Summary, Configuration Progress, and End Of Configuration. The main area contains three input fields: 'Name' with the value 'weblogic', 'Password' with masked characters '.....', and 'Confirm Password' with masked characters '.....'. A note at the bottom states: 'Must be the same as the password. Password must contain at least 8 alphanumeric characters with at least one number or special character.' At the bottom of the window are buttons for 'Help', '< Back', 'Next >', 'Finish', and 'Cancel'.

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

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



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

(**Note:** Select **Production** Mode to give your environment a higher degree of security. You need to enter a user name and password to deploy applications and to start the Administration Server.

As of WebLogic Server 14.1.2.0.0, when you select **Production** mode, WebLogic Server automatically sets some of the security configurations of **Secured Production** to more secure values. However, there are certain security configurations (such as SSL/TLS) that require manual configuration. If you want to disable the more secure default settings, then you may select **Disable Secure Mode**. This will enable the non-SSL listen ports.

If you want to retain the more secure default settings of **Secured Production** mode in general, but want to change which ports (listen ports, SSL listen ports, or administration ports) will be enabled by default in your domain, then you may:

- Leave **Disable Secure Mode** unselected, and
- Change the default port selections under **Enable or Disable Default Ports for Your Domain**.

)

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

Fusion Middleware Configuration Wizard - Page 7 of 15

Database Configuration Type

ORACLE
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Specify AutoConfiguration Options Using:

☒ RCU Data ☐ Manual Configuration

Enter the database connection details using the schema credentials corresponding to Common Infrastructure Services component in the Repository Creation Utility. The Wizard uses this connection to automatically configure the datasources required for components in this domain.

Vendor: Oracle Driver: *Oracle's Driver (Thin) for Service connections; Versi...

☒ Connection Parameters ☐ Connection URL String

Host Name: c3n1-sles16vm

DBMS/Service: susepdb1 Port: 1521

Schema Owner: DEV_STB Schema Password:

Get RCU Configuration Cancel

Connection Result Log

Connecting to the database server...OK
Retrieving schema data from database server...OK
Binding local schema components with retrieved data...OK

Successfully Done.

Click 'Next' button to continue.

Help < Back Next > Finish Cancel

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

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

Fusion Middleware Configuration Wizard - Page 8 of 15

JDBC Component Schema

ORACLE
FUSION MIDDLEWARE

Vendor: Driver:

☐ Connection Parameters ☒ Connection URL String

URL:

Schema Owner: Schema Password:

Oracle RAC configuration for component schemas:

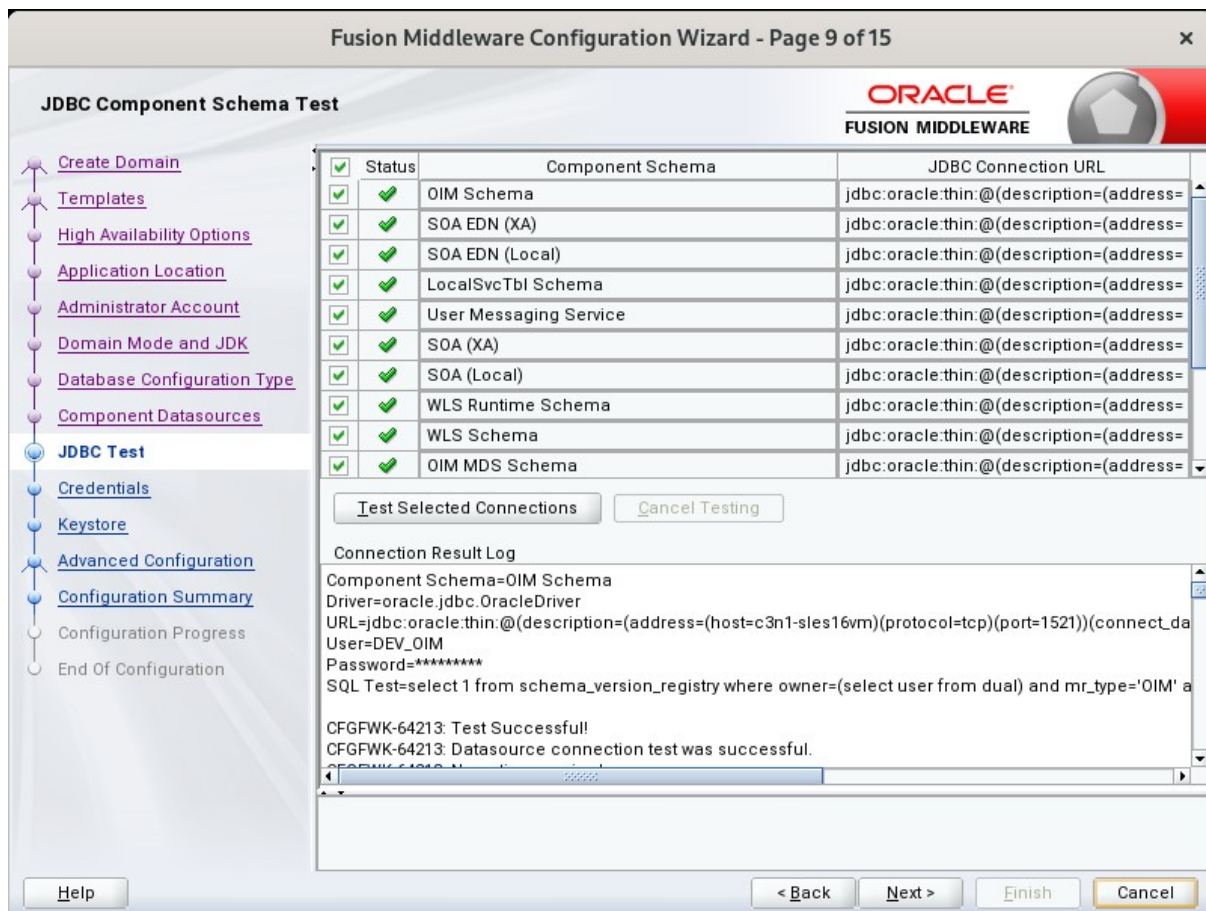
☐ Convert to GridLink ☐ Convert to RAC multi data source ☐ Don't convert

Edits to the data above will affect all checked rows in the table below.

<input type="checkbox"/>	Component Schema	URL	Schema Owner	Schema Password
<input type="checkbox"/>	OIM Schema	jdbc:oracle:thin:@(description=(addre	DEV_OIM	.....
<input type="checkbox"/>	SOA EDN (XA)	jdbc:oracle:thin:@(description=(addre	DEV_SOAINFRA	.....
<input type="checkbox"/>	SOA EDN (Local)	jdbc:oracle:thin:@(description=(addre	DEV_SOAINFRA	.....
<input type="checkbox"/>	LocalSvcTbl Schema	jdbc:oracle:thin:@(description=(addre	DEV_STB	.....
<input type="checkbox"/>	User Messaging Servic	jdbc:oracle:thin:@(description=(addre	DEV_UMS	.....
<input type="checkbox"/>	SOA (XA)	jdbc:oracle:thin:@(description=(addre	DEV_SOAINFRA	.....
<input type="checkbox"/>	SOA (Local)	jdbc:oracle:thin:@(description=(addre	DEV_SOAINFRA	.....
<input type="checkbox"/>	WLS Runtime Schema	jdbc:oracle:thin:@(description=(addre	DEV_WLS_RUN	.....

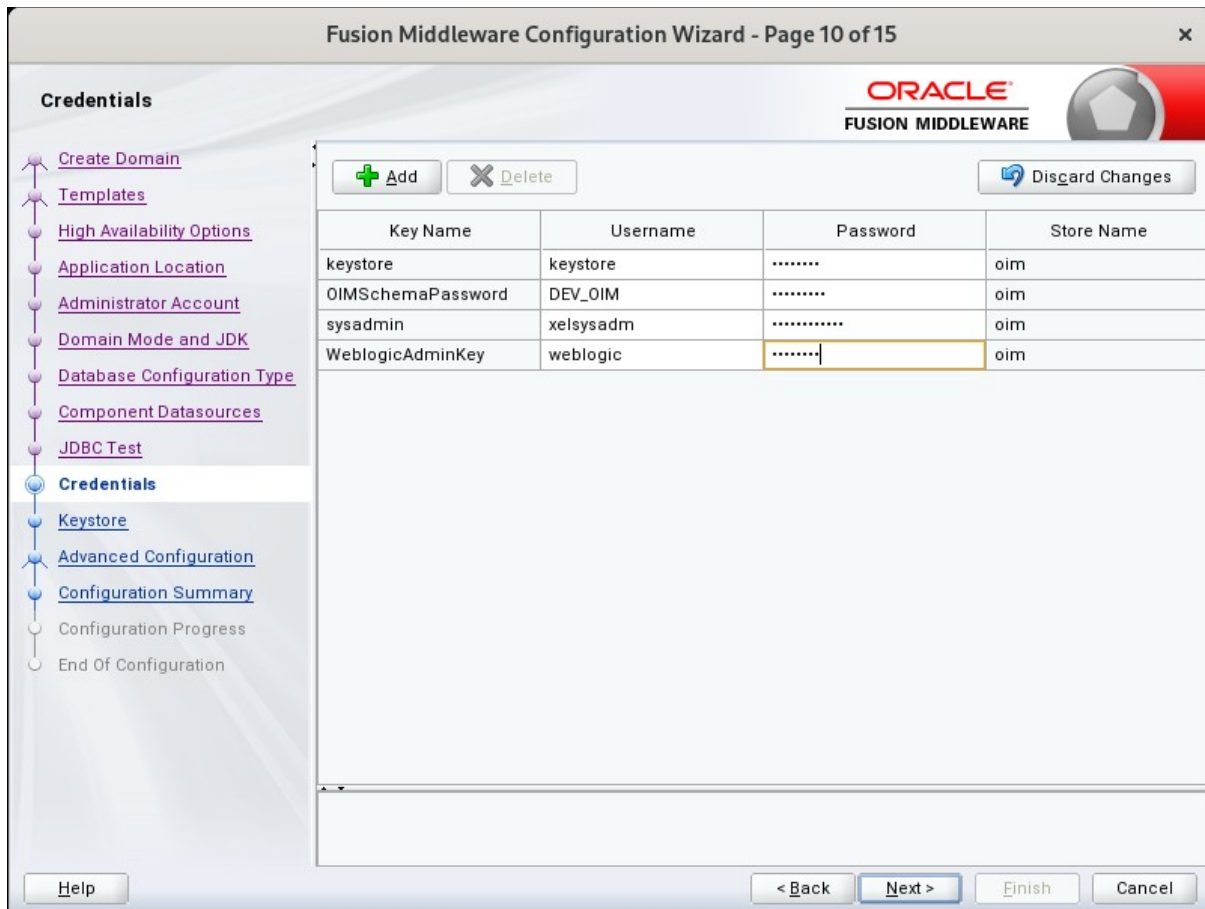
Our instructions assume each Repository schema uses the same password. If not, enter the correct schema passwords. Click **Next** to continue.

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



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

10). The **Credentials** screen appears.



Fusion Middleware Configuration Wizard - Page 10 of 15

Credentials

ORACLE
FUSION MIDDLEWARE

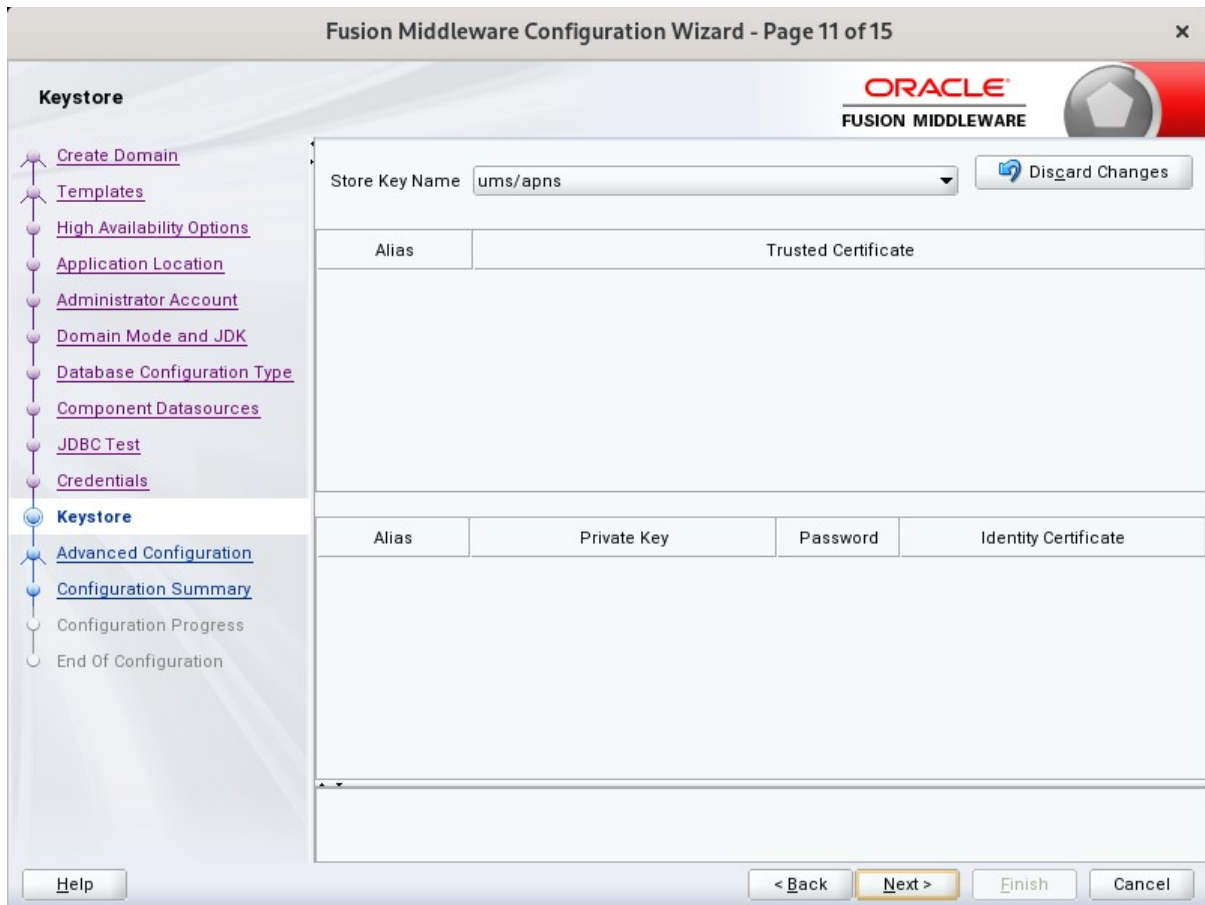
+ Add - Delete Discard Changes

Key Name	Username	Password	Store Name
keystore	keystore	.....	oim
OIMSchemaPassword	DEV_OIM	.....	oim
sysadmin	xelsysadm	.....	oim
WeblogicAdminKey	weblogic	.....	oim

Help < Back Next > Finish Cancel

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

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



The screenshot shows the 'Keystore' screen of the Fusion Middleware Configuration Wizard. The title bar indicates 'Fusion Middleware Configuration Wizard - Page 11 of 15'. The Oracle Fusion Middleware logo is in the top right. On the left, a navigation pane lists steps: Create Domain, Templates, High Availability Options, Application Location, Administrator Account, Domain Mode and JDK, Database Configuration Type, Component Datasources, JDBC Test, Credentials, **Keystore** (selected), Advanced Configuration, Configuration Summary, Configuration Progress, and End Of Configuration. The main area has a 'Store Key Name' dropdown set to 'ums/apns' and a 'Discard Changes' button. Below are two tables for certificate management.

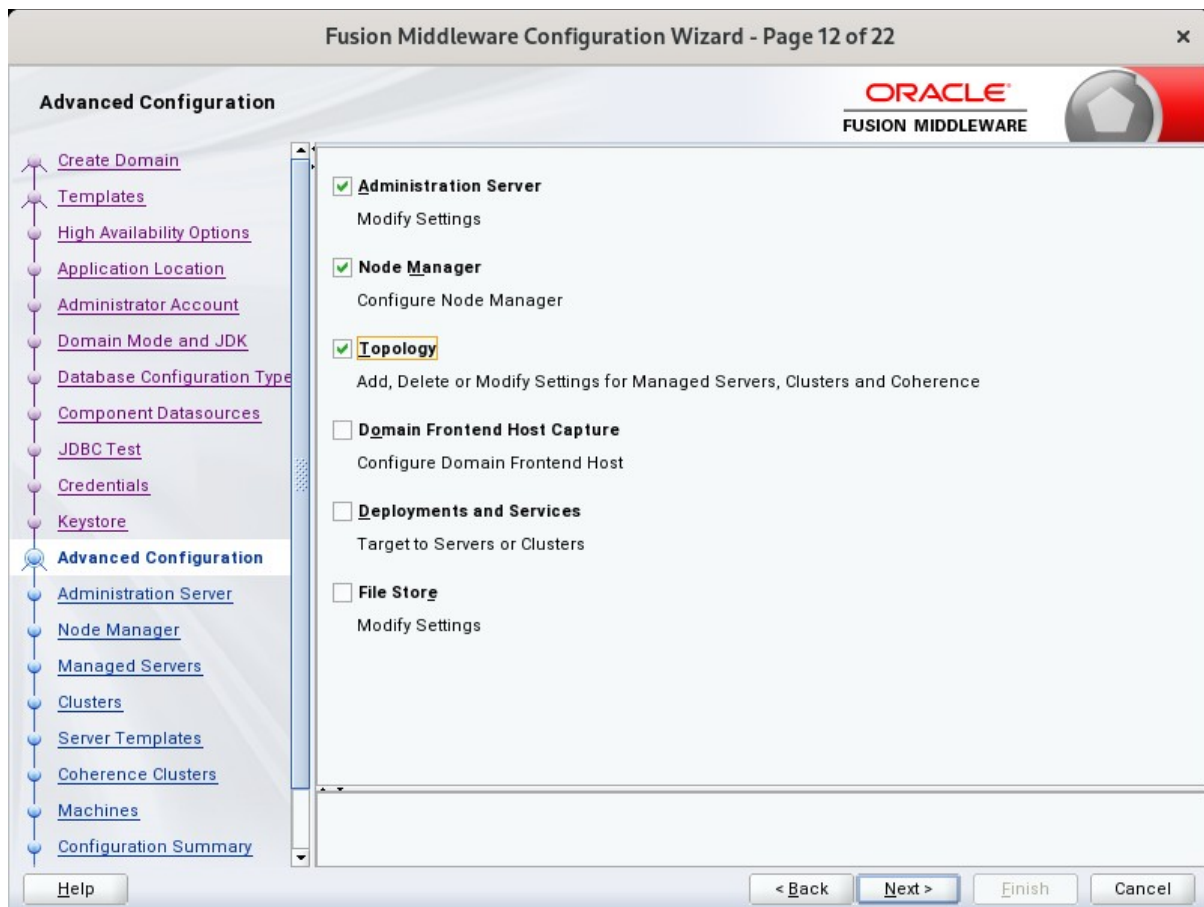
Alias	Trusted Certificate

Alias	Private Key	Password	Identity Certificate

At the bottom, there is a 'Help' button on the left and '< Back', 'Next >', 'Finish', and 'Cancel' buttons on the right.

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

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



On the Advanced Configuration screen, select:

- Administration Server
- Node Manager
- Topology

Then, click **Next** to continue.

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

The screenshot shows the 'Administration Server' configuration screen in the Fusion Middleware Configuration Wizard. The title bar indicates 'Fusion Middleware Configuration Wizard - Page 13 of 22'. The Oracle logo and 'FUSION MIDDLEWARE' text are in the top right corner. On the left, a navigation pane lists various configuration steps, with 'Administration Server' selected and highlighted. The main area contains the following fields and options:

- Server Name:** AdminServer
- Listen Address:** All Local Addresses (dropdown menu)
- Configure Administration Server Ports:**
 - ☒ Enable Listen Port
 - ☐ Enable SSL Listen Port
 - Listen Port:** 7001
 - SSL Listen Port:** 7002
 - Administration Port:** 9002
- Server Groups:** Unspecified (dropdown menu)

At the bottom, there are four buttons: 'Help', '< Back', 'Next >', and 'Finish'. The 'Next >' button is highlighted with a yellow border.

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.

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

The screenshot shows the 'Node Manager' configuration screen in the Fusion Middleware Configuration Wizard. The left sidebar contains a list of steps: 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** (selected), Managed Servers, Clusters, Server Templates, Coherence Clusters, Machines, and Configuration Summary. The main area is titled 'Node Manager' and features the Oracle Fusion Middleware logo. It contains two sections: 'Node Manager Topology' and 'Node Manager Credentials'. In the 'Node Manager Topology' section, the 'Per Domain Default Location' radio button is selected. Below it, the 'Node Manager Home' field is populated with the path '%_Home/user_projects/domains/base_domain/nodemanager', and a 'Browse' button is available. The 'Manual Node Manager Setup' radio button is unselected. In the 'Node Manager Credentials' section, the 'Username' field is 'weblogic', and the 'Password' and 'Confirm Password' fields are masked with dots. A note at the bottom states: 'Must be the same as the password. Password must contain at least 8 alphanumeric characters with at least one number or special character.' At the bottom of the window are buttons for '< Back', 'Next >', 'Finish', and 'Cancel'.

Fusion Middleware Configuration Wizard - Page 14 of 22

Node Manager

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Node Manager Topology

☒ Per Domain Default Location

☐ Per Domain Custom Location

Node Manager Home: %_Home/user_projects/domains/base_domain/nodemanager Browse

☐ Manual Node Manager Setup

Node Manager Credentials

Username: weblogic

Password:

Confirm Password:

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

Help < Back Next > Finish Cancel

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

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

Fusion Middleware Configuration Wizard - Page 15 of 22

Managed Servers

ORACLE
FUSION MIDDLEWARE

+ Add Clone X Delete Discard Changes

Server Name	Listen Address	Enable Listen	Listen Port	Enable SSL Port	SSL Listen Port	Administration Port	Server Groups
oim_server1	All Local A...	<input checked="" type="checkbox"/>	14000	<input type="checkbox"/>	Disabled	Disabled	OIM-M...
soa_server1	All Local A...	<input checked="" type="checkbox"/>	7003	<input type="checkbox"/>	Disabled	Disabled	SOA-...

Help < Back Next > Finish Cancel

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

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

Fusion Middleware Configuration Wizard - Page 16 of 24

ORACLE
FUSION MIDDLEWARE

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
Assign Servers to Clusters
Coherence Clusters

+ Add - Delete Discard Changes

Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS
oim_cluster_1			0	0
soa_cluster_1			0	0

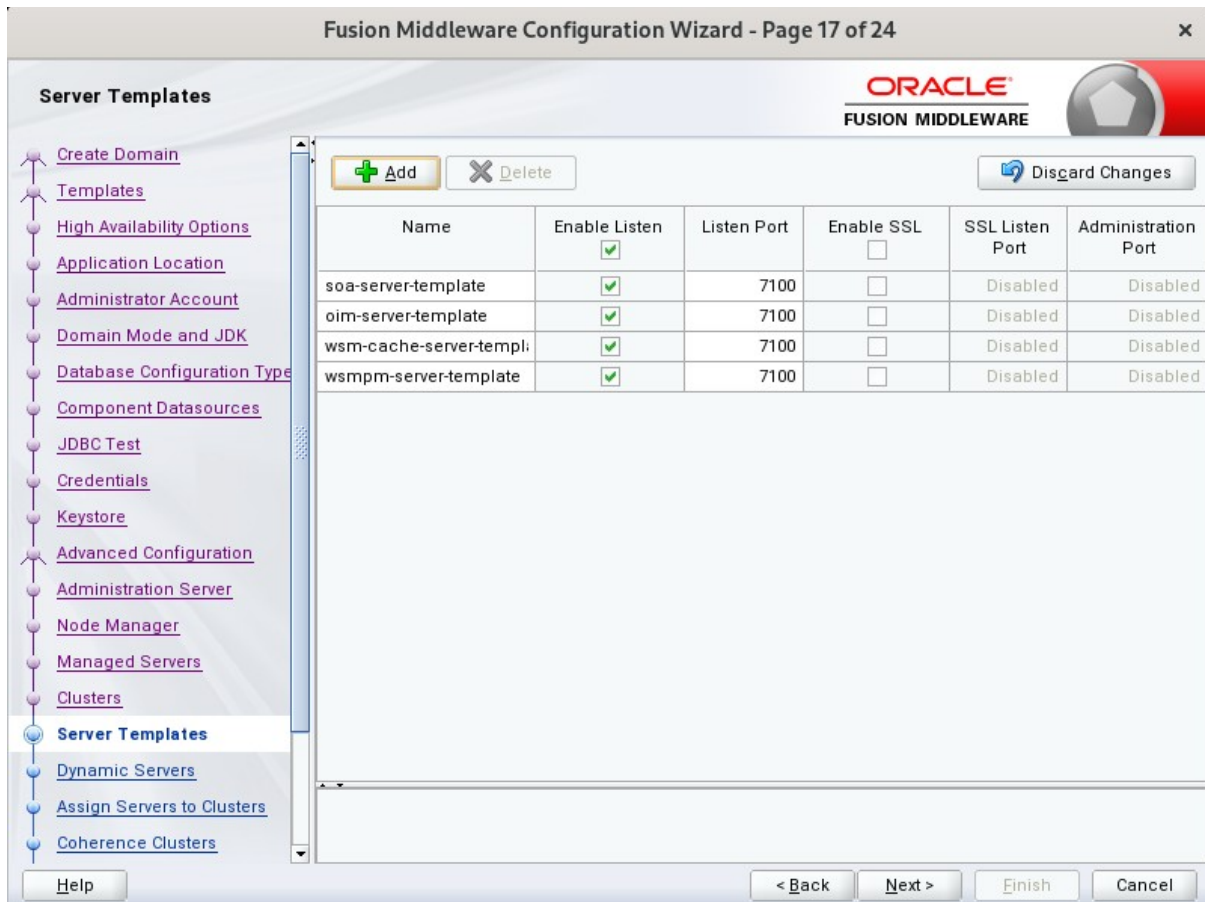
Help < Back Next > Finish Cancel

On the Clusters screen:

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

Click **Next** to continue.

17). The **Server templates** screen appears.



Fusion Middleware Configuration Wizard - Page 17 of 24

Server Templates

ORACLE
FUSION MIDDLEWARE

[+ Add](#) [X Delete](#) [Discard Changes](#)

Name	Enable Listen	Listen Port	Enable SSL	SSL Listen Port	Administration Port
soa-server-template	<input checked="" type="checkbox"/>	7100	<input type="checkbox"/>	Disabled	Disabled
oim-server-template	<input checked="" type="checkbox"/>	7100	<input type="checkbox"/>	Disabled	Disabled
wsm-cache-server-templ	<input checked="" type="checkbox"/>	7100	<input type="checkbox"/>	Disabled	Disabled
wsmprn-server-template	<input checked="" type="checkbox"/>	7100	<input type="checkbox"/>	Disabled	Disabled

[Help](#) [< Back](#) [Next >](#) [Finish](#) [Cancel](#)

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

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

Fusion Middleware Configuration Wizard - Page 18 of 24

Dynamic Servers

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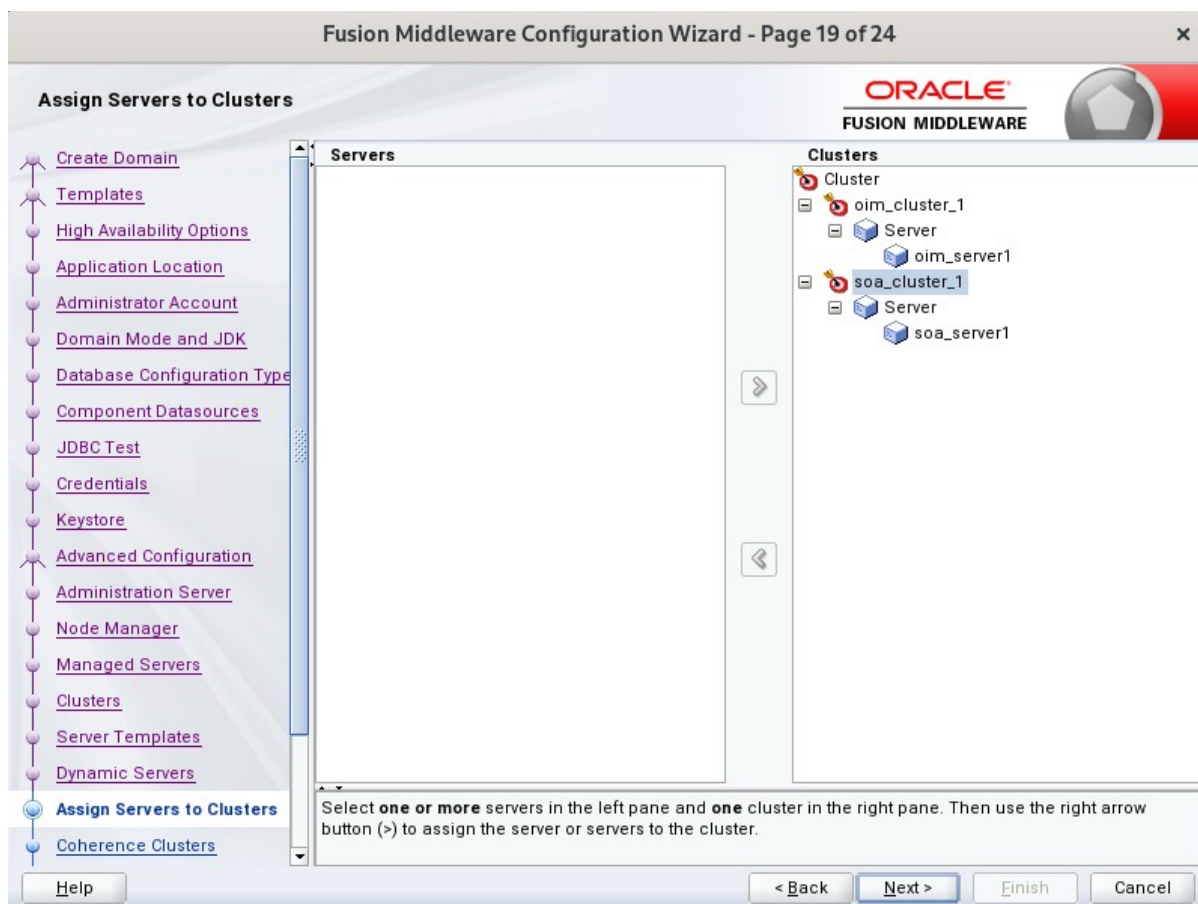
Discard Changes

Cluster Name	Server Name Prefix	Server Template	Dynamic Cluster Size	Machine Name Match Expression	Calculated Machine Names	Calculated Listen Ports	Dynamic Server Groups
oim_cluster_1	Disabled	Unspeci...	Disabled	Disabled	<input type="checkbox"/>	<input type="checkbox"/>	Unspeci...
soa_cluster_1	Disabled	Unspeci...	Disabled	Disabled	<input type="checkbox"/>	<input type="checkbox"/>	Unspeci...

Help < Back Next > Finish Cancel

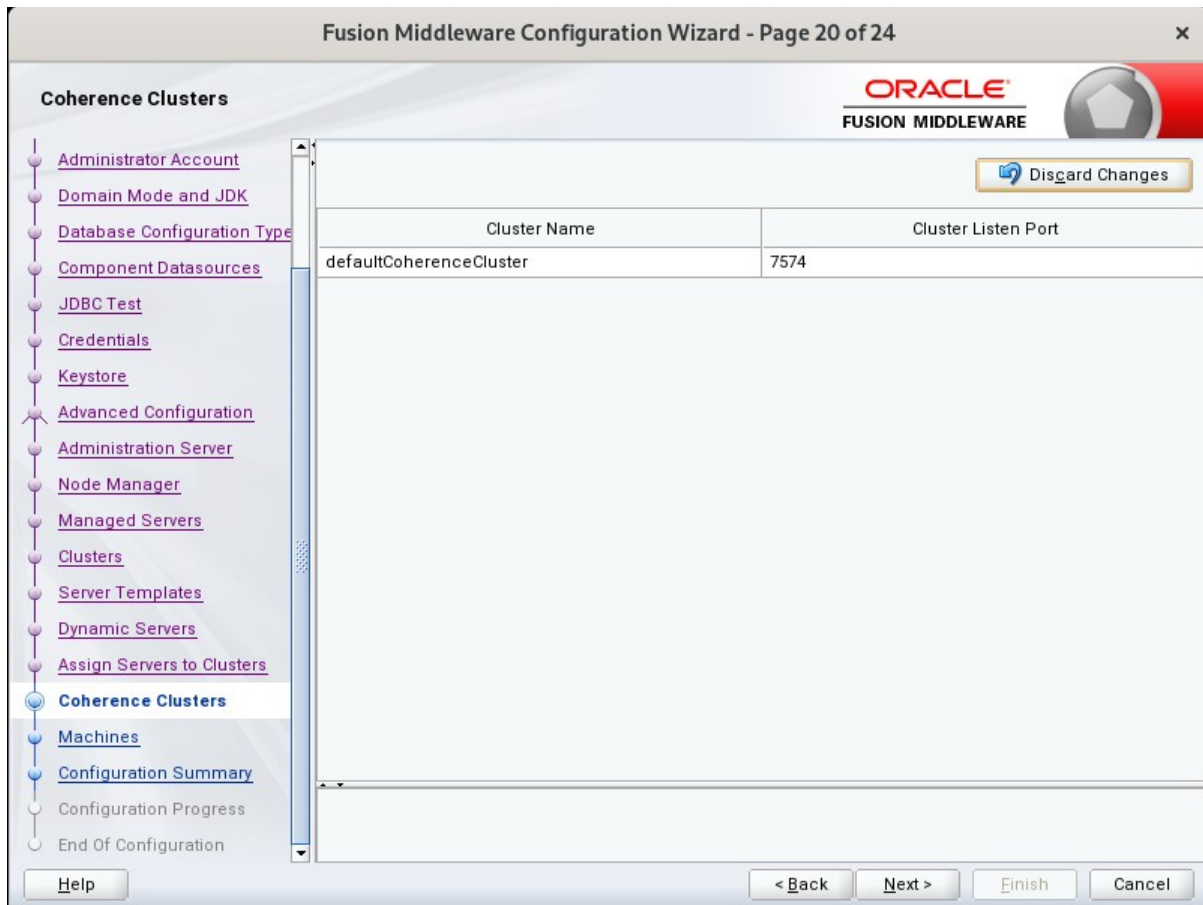
If you are creating dynamic clusters for a high availability setup, use the Dynamic Servers screen to configure the dynamic servers. If you are not configuring a dynamic cluster, click **Next** to continue configuring the domain.

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.

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



The screenshot shows the 'Coherence Clusters' screen in the Fusion Middleware Configuration Wizard. The title bar indicates 'Fusion Middleware Configuration Wizard - Page 20 of 24'. The Oracle Fusion Middleware logo is in the top right corner. A 'Discard Changes' button is located in the top right area. On the left, a vertical navigation pane lists various configuration steps, with 'Coherence Clusters' currently selected and highlighted. The main area contains a table with two columns: 'Cluster Name' and 'Cluster Listen Port'. The table has one row with the values 'defaultCoherenceCluster' and '7574'. At the bottom, there are four buttons: '< Back', 'Next >', 'Finish', and 'Cancel'. A 'Help' button is also present in the bottom left corner of the main area.

Cluster Name	Cluster Listen Port
defaultCoherenceCluster	7574

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

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

Fusion Middleware Configuration Wizard - Page 21 of 25

Machines

Machine: Unix Machine

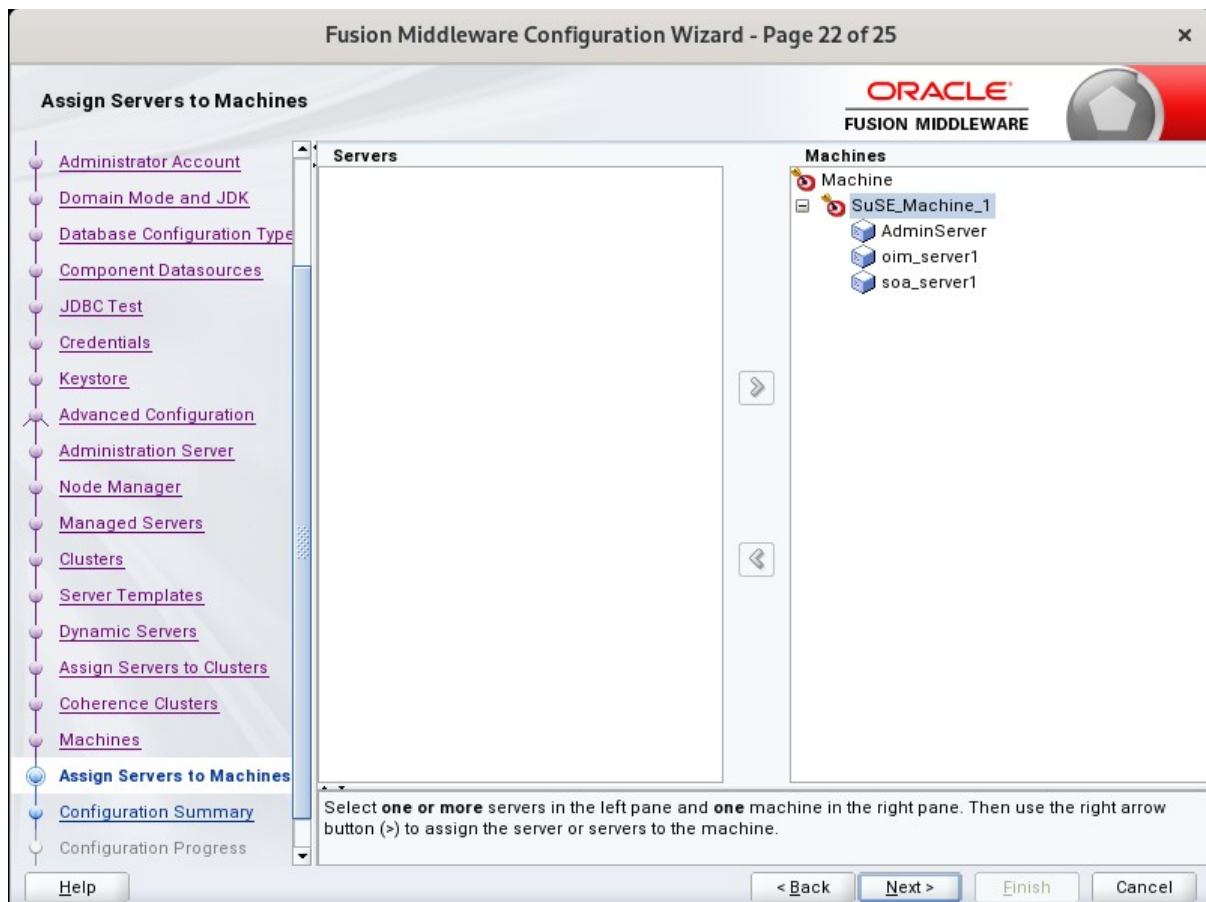
+ Add - Delete Discard Changes

Name	Node Manager Listen Address	Node Manager Type	Node Manager Listen Port
SuSE_Machine_1	localhost	SSL	5556

Help < Back Next > Finish Cancel

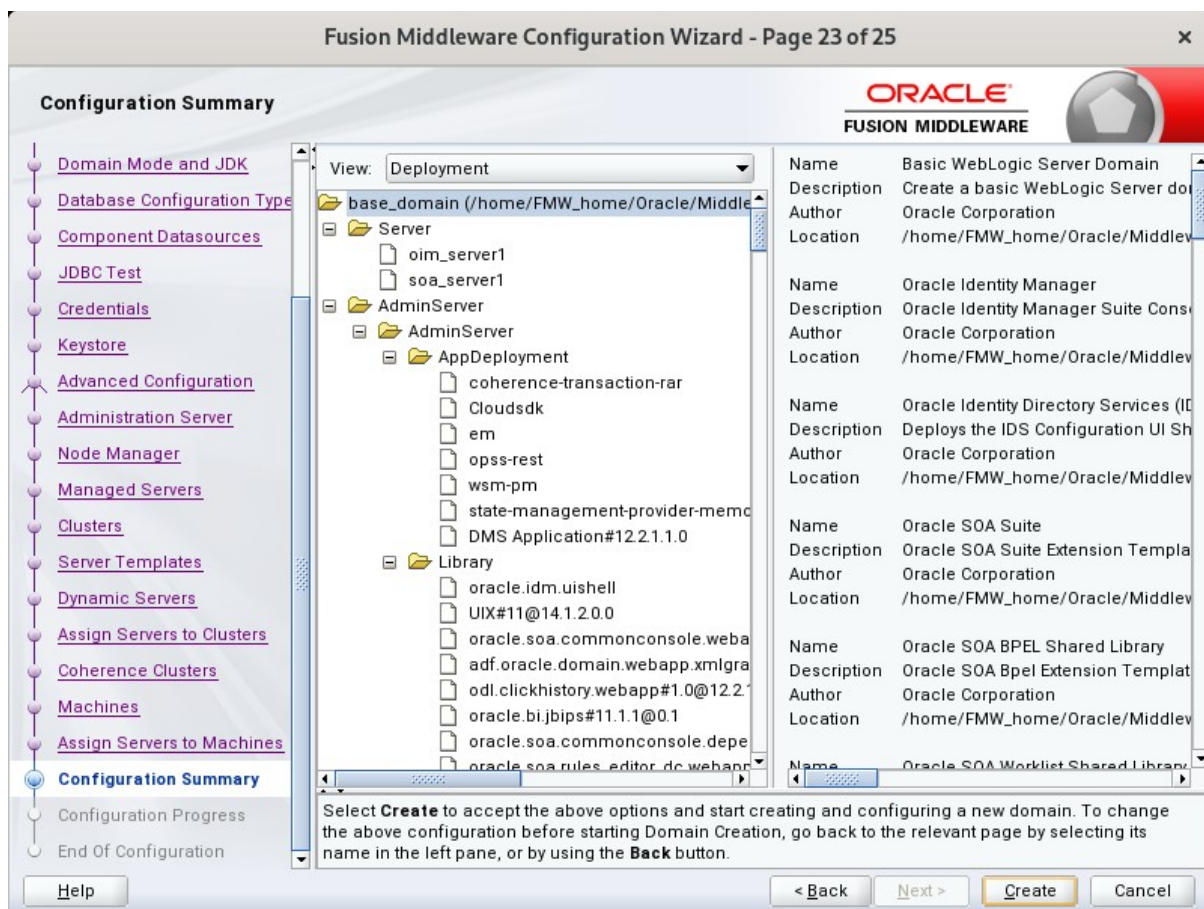
To create a new machine so that Node Manager can start and stop servers. Click **Next** to continue.

22). The **Assign Servers to Machines** screen appears.



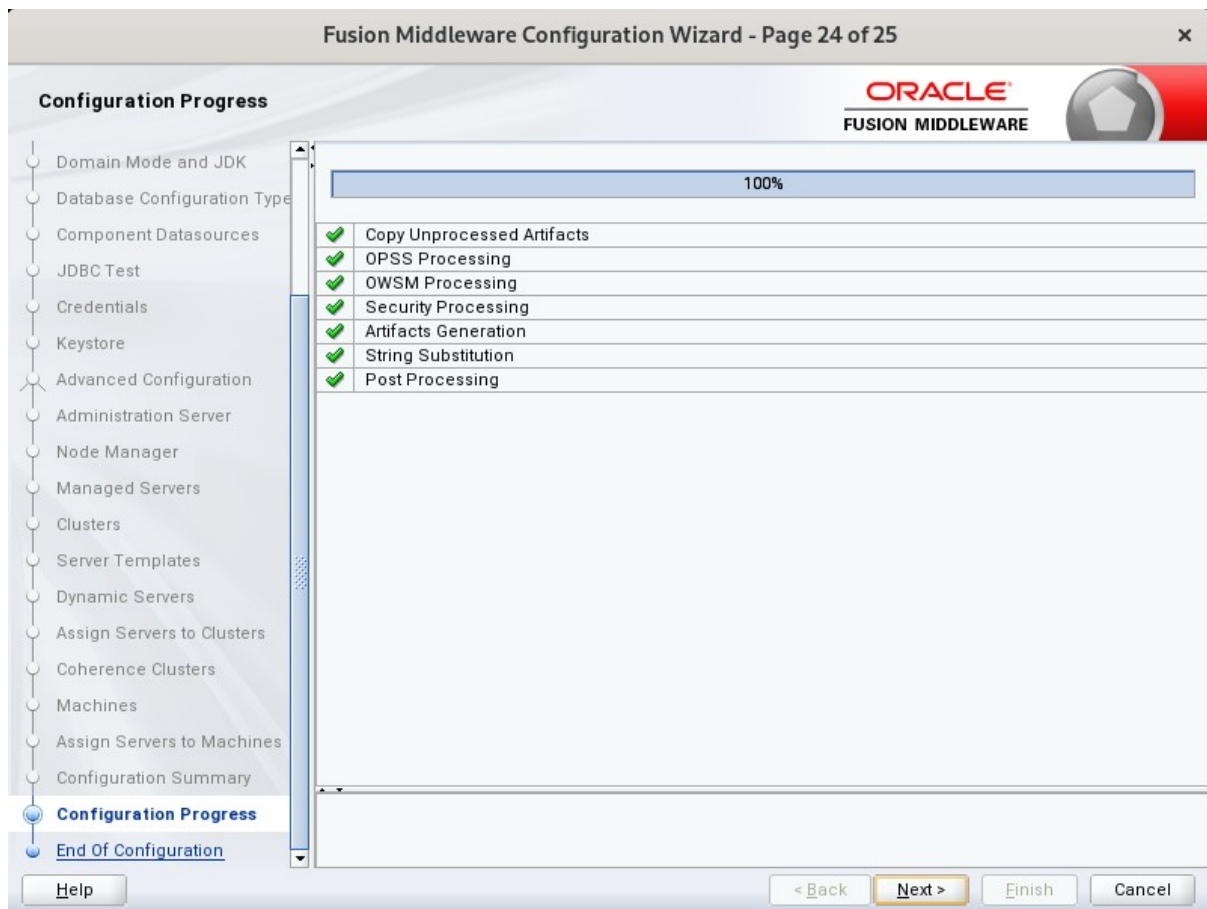
Use the **Assign Servers to Machines** screen to assign the Managed Servers to the new machine you just created. Click **Next** to continue.

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



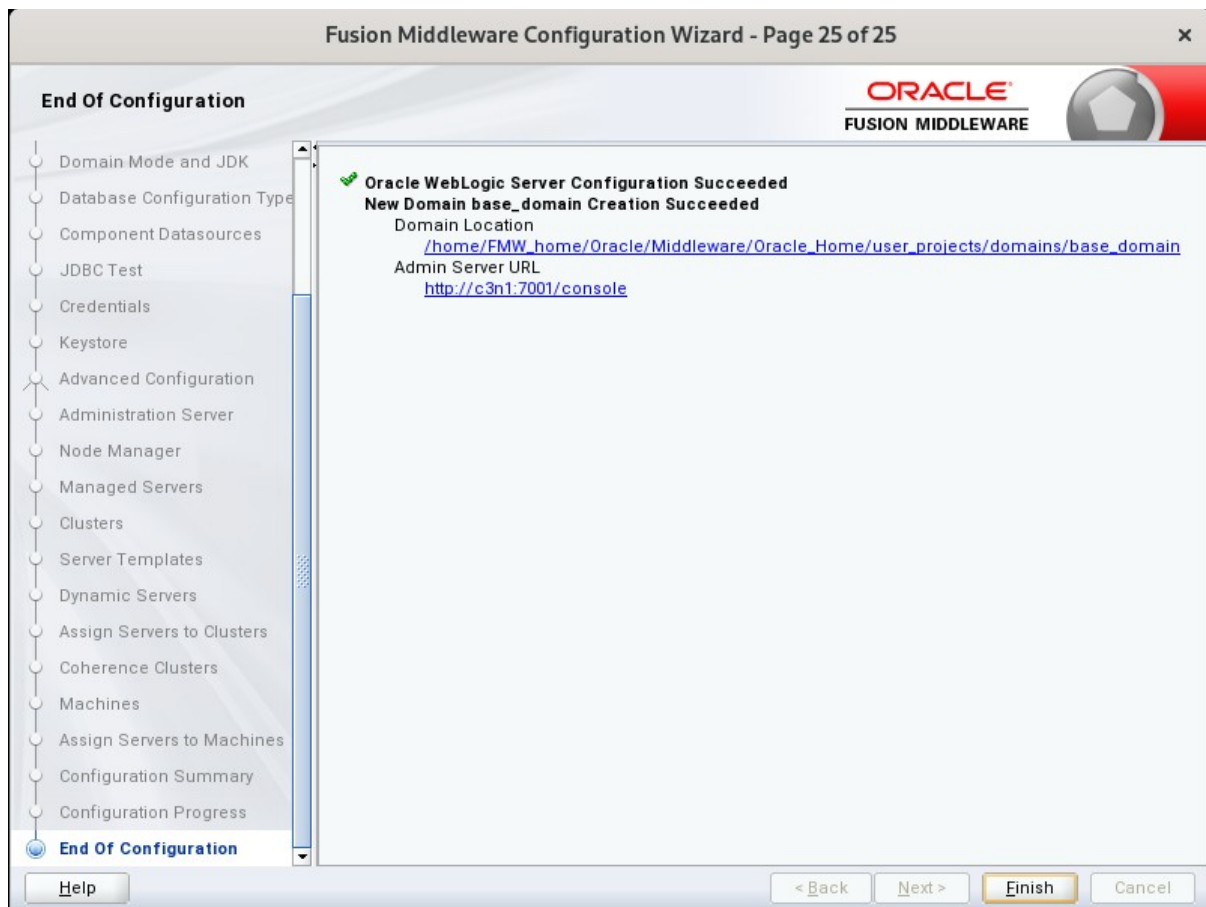
Select **Create** to accept the above options and start creating and configuring a new domain.

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



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.

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.

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
```



The screenshot shows a terminal window with the title bar "oracle@c3n1:...ome/idm/server/bin". The terminal displays the following commands and output:

```
oracle@c3n1:~> export DOMAIN_HOME=/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/
oracle@c3n1:~> export JAVA_HOME=/home/ORACLE_SW/Java/jdk-17.0.13
oracle@c3n1:~> /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/bin/setDomainEnv.sh
*****
** Setting up SOA specific environment...
*****
EXTRA_JAVA_PROPERTIES= -Doracle.jms.noSubCheck=false -da:org.apache.xmlbeans...
LD_LIBRARY_PATH=::/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/server/native/linux/x86_64:/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/server/native/linux/x86_64/oc1929_8
*****
** End SOA specific environment setup
*****
oracle@c3n1:~> cd /home/FMW_home/Oracle/Middleware/Oracle_Home/idm/server/bin/
oracle@c3n1:/home/FMW_home/Oracle/Middleware/Oracle_Home/idm/server/bin> chmod +x offlineConfigManager.sh
oracle@c3n1:/home/FMW_home/Oracle/Middleware/Oracle_Home/idm/server/bin> ./offlineConfigManager.sh
```

```
oracle@c3n1:~$ cd /u01/app/oracle/ids/server/bin
oracle@c3n1:~/ids/server/bin$ ./jps-config.xml
INFO:
Updated jps-config.xml Details.
<Nov 28, 2025, 5:58:57,933 AM China Standard Time> <Info> <oracle.iam.OIMPostConfigManager> <BEA-000000> <jps-config.xml isAlreadyUpdated:false>
Nov 28, 2025 5:58:57 AM oracle.iam.OIMPostConfigManager.config.util.JPSConfigXMLUpdate isJPSConfigXMLForWASAlreadyUpdated
INFO: jps-config.xml isAlreadyUpdated:false
Nov 28, 2025 5:58:57,933 AM China Standard Time <Info> <oracle.iam.OIMPostConfigManager> <BEA-000000> <Entering updateJPSConfigXMLForWLS() method of JPSConfigXMLUpdate class>
Nov 28, 2025 5:58:57 AM oracle.iam.OIMPostConfigManager.config.util.JPSConfigXMLUpdate updateJPSConfigXMLForWLS
INFO: Entering updateJPSConfigXMLForWLS() method of JPSConfigXMLUpdate class
<Nov 28, 2025, 5:58:57,935 AM China Standard Time> <Info> <oracle.iam.OIMPostConfigManager> <BEA-000000> <Changed the ID Store Provider from LDAP to OIM : <serviceInstanceRef ref="idstore.oim"/>>
Nov 28, 2025 5:58:57 AM oracle.iam.OIMPostConfigManager.config.util.JPSConfigXMLUpdate updateJPSConfigXMLForWLS
INFO: Changed the ID Store Provider from LDAP to OIM : <serviceInstanceRef ref="idstore.oim"/>
Nov 28, 2025 5:58:57,936 AM China Standard Time <Info> <oracle.iam.OIMPostConfigManager> <BEA-000000> <
[OIM_CONFIG]The file /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/jps-config-jse.xml is updated.>
Nov 28, 2025 5:58:57 AM oracle.iam.OIMPostConfigManager.config.util.JPSConfigXMLUpdate updateJPSConfigXMLForWLS
INFO: Exiting updateJPSConfigXMLForWLS() method of JPSConfigXMLUpdate class
<Nov 28, 2025, 5:58:57,937 AM China Standard Time> <Info> <oracle.iam.OIMPostConfigManager> <BEA-000000> <
Updated jps-config-jse.xml Details.>
Nov 28, 2025 5:58:57 AM oracle.iam.OIMPostConfigManager.config.OIMConfigManager updateJPSConfig
INFO:
Updated jps-config-jse.xml Details.
<Nov 28, 2025, 5:58:57,937 AM China Standard Time> <Info> <oracle.iam.OIMPostConfigManager> <BEA-000000> <Exiting updateJPSConfig() method of OIMConfigManager class>
Nov 28, 2025 5:58:57 AM oracle.iam.OIMPostConfigManager.config.OIMConfigManager updateJPSConfig
INFO: Exiting updateJPSConfig() method of OIMConfigManager class
<Nov 28, 2025, 5:58:57,937 AM China Standard Time> <Info> <oracle.iam.OIMPostConfigManager> <BEA-000000> <
[OIM_CONFIG] Copying the mbean Files>
Nov 28, 2025 5:58:57 AM oracle.iam.OIMPostConfigManager.config.OIMConfigManager copyMBeanFiles
INFO:
[OIM_CONFIG] Copying the mbean Files
<Nov 28, 2025, 5:58:57,938 AM China Standard Time> <Info> <oracle.iam.OIMPostConfigManager> <BEA-000000> <Entering copyMBeanFiles() method of OIMConfigManager class>
Nov 28, 2025 5:58:57 AM oracle.iam.OIMPostConfigManager.config.OIMConfigManager copyMBeanFiles
INFO: Entering copyMBeanFiles() method of OIMConfigManager class
<Nov 28, 2025, 5:58:57,949 AM China Standard Time> <Info> <oracle.iam.OIMPostConfigManager> <BEA-000000> <
Copying mbean files are successful>
Nov 28, 2025 5:58:57 AM oracle.iam.OIMPostConfigManager.config.OIMConfigManager copyMBeanFiles
INFO:
Copying mbean files are successful
<Nov 28, 2025, 5:58:57,949 AM China Standard Time> <Info> <oracle.iam.OIMPostConfigManager> <BEA-000000> <Exiting copyMBeanFiles() method of OIMConfigManager class>
Nov 28, 2025 5:58:57 AM oracle.iam.OIMPostConfigManager.config.OIMConfigManager copyMBeanFiles
INFO: Exiting copyMBeanFiles() method of OIMConfigManager class
End of offlineConfigManager .

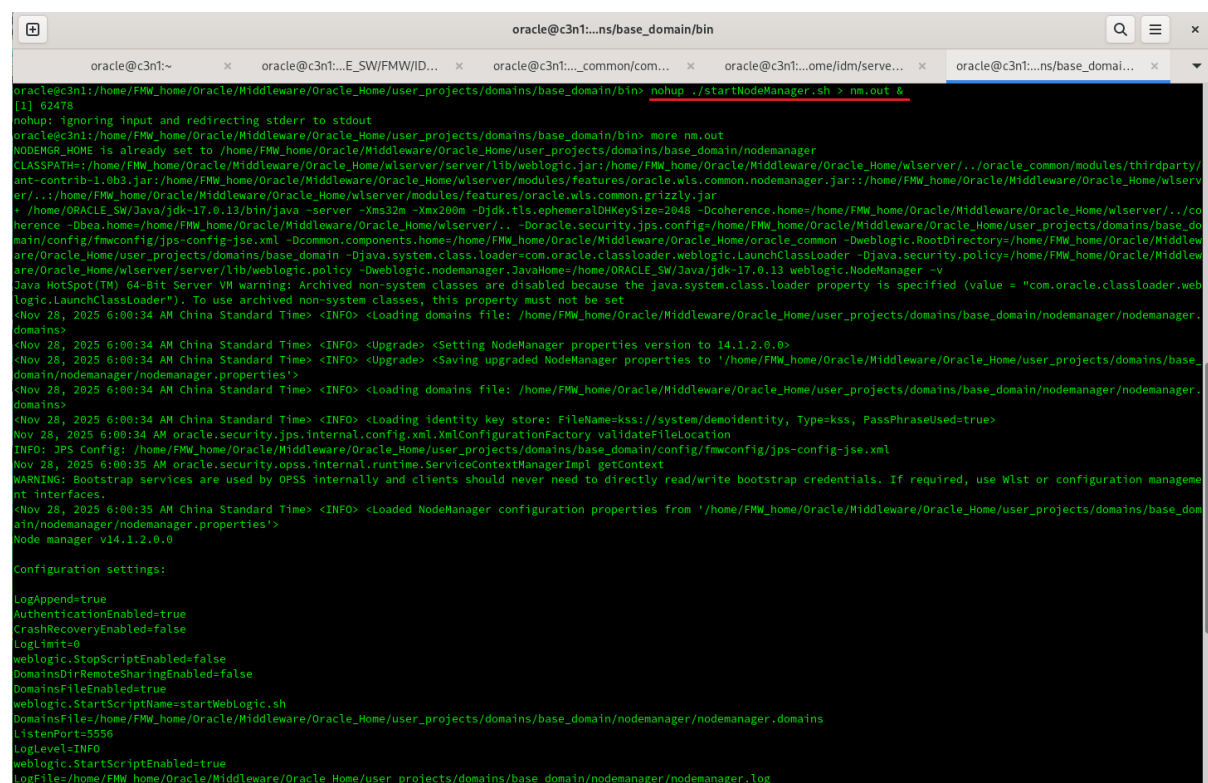
oracle@c3n1:~/ids/server/bin$ cd /u01/app/oracle/ids/server/bin
```

3. Verifying Oracle Identity Manager(OIM) Installation and Configuration

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

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

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



```

oracle@c3n1...ns/base_domain/bin
[1] 62478
nohup: ignoring input and redirecting stderr to stdout
oracle@c3n1:/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/bin> more nm.out
NODEMGR_HOME is already set to /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/nodemanager
CLASSPATH: /home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/server/lib/weblogic.jar:/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/..../oracle_common/modules/thirdparty/ant-contrib-1.0b3.jar:/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/modules/features/oracle.wls.common.nodemanager.jar:/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/..../home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/modules/features/oracle.wls.common.grizzly.jar
* /home/ORACLE_SW/Java/jdk-17.0.13/bin/java -server -Xms32m -Xmx200m -Djdk.tls.ephemeralDHKeySize=2048 -Dcoherence.home=/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/..../coherence -Djava.home=/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/..../ -Doracle.security.jps.config=/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/jps-config-jse.xml -Dcommon.components.home=/home/FMW_home/Oracle/Middleware/Oracle_Home/oracle_common -Dweblogic.RootDirectory=/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain -Djava.system.class.loader=com.oracle.classloader.weblogic.LaunchClassLoader -Djava.security.policy=/home/FMW_home/Oracle/Middleware/Oracle_Home/wlserver/server/lib/weblogic.policy -Dweblogic.nodemanager.java.home=/home/ORACLE_SW/Java/jdk-17.0.13 weblogic.NodeManager -v
Java HotSpot(TM) 64-Bit Server VM warning: Archived non-system classes are disabled because the java.system.class.loader property is specified (value = "com.oracle.classloader.weblogic.LaunchClassLoader"). To use archived non-system classes, this property must not be set
<Nov 28, 2025 6:00:34 AM China Standard Time> <INFO> <Loading domains file: /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/nodemanager/nodemanager.domains>
<Nov 28, 2025 6:00:34 AM China Standard Time> <INFO> <Upgrade> <Setting NodeManager properties version to 14.1.2.0.0>
<Nov 28, 2025 6:00:34 AM China Standard Time> <INFO> <Upgrade> <Saving upgraded NodeManager properties to '/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/nodemanager/nodemanager.properties'>
<Nov 28, 2025 6:00:34 AM China Standard Time> <INFO> <Loading domains file: /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/nodemanager/nodemanager.domains>
<Nov 28, 2025 6:00:34 AM China Standard Time> <INFO> <Loading identity key store: FileName=kss://system/demoidentity, Type=kss, PassPhraseUsed=true>
Nov 28, 2025 6:00:34 AM oracle.security.jps.internal.config.xml.XmlConfigurationFactory validateFileLocation
INFO: JPS Config: /home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/jps-config-jse.xml
Nov 28, 2025 6:00:35 AM oracle.security.oss.internal.runtime.ServiceContextManagerImpl getContext
WARNING: Bootstrap services are used by OPSS internally and clients should never need to directly read/write bootstrap credentials. If required, use Wlst or configuration management interfaces.
<Nov 28, 2025 6:00:35 AM China Standard Time> <INFO> <Loaded NodeManager configuration properties from '/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/nodemanager/nodemanager.properties'>
Node manager v14.1.2.0.0

Configuration settings:
LogAppend=true
AuthenticationEnabled=true
CrashRecoveryEnabled=false
LogLevel=INFO
weblogic.StopScriptEnabled=false
DomainsDirRemoteSharingEnabled=false
DomainsFileEnabled=true
weblogic.StartScriptName=startWebLogic.sh
DomainsFile=/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/nodemanager/nodemanager.domains
ListenPort=5556
LogLevel=INFO
weblogic.StartScriptEnabled=true
LogFile=/home/FMW_home/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/nodemanager/nodemanager.log
  
```

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

```
oracle@c3n1:~$ ./base_domain/bin
oracle@c3n1:~$ oracle@c3n1:..._E_SWIF... oracle@c3n1:..._commo... oracle@c3n1:...ome/id... oracle@c3n1:...ns/base... oracle@c3n1:...ns/base...
Inside MultiOMSIntegration
FMWProv: Integration Class called and was reloaded for me
PostInstallConfigIntegration:oracle_ias_farm target auth registration is done.
CompositesProvIntegration init...
getallPluginOracleHomes: ConnectionService is null
getallPluginOracleHomes: ConnectionService is null
Anonymous url config processing/WEB-INF/config/anonymous-access-ome.config
Anonymous-urls:[/em/ISVswdetect.js, /em/LogInStatusServlet, /em/adf/, /em/adflib/, /em/adfr/, /em/bf/, /em/bmp/discovertargets, /em/cabo/, /em/console/help/, /em/con
sole/login/, /em/console/status.js, /em/dynamicImage, /em/em/cca/CSA.jar, /em/em/cca/CSA.mib, /em/em/cca/csabanner.gif, /em/emcl1/custAttrib/, /em/emr/, /em/faces/login/,
/em/faces/helppages/, /em/flashbridge, /em/forssapp/lib/formsRecorder.jar, /em/images/, /em/install/getAgentImage, /em/helppages/help/, /em/jslibs/, /em/jslibsObf/,
/em/login.jsp, /em/mapproxy, /em/mobile/core/uifwk/skins/, /em/ocamm/lib/, /em/onetime, /em/ovs/discovertargets, /em/public/, /em/public_lib_download/, /em/redirect,
/em/relocatetarget, /em/sdmpk/core/uifwkmobile/skins/, /em/servlet/GaugeServlet, /em/servlet/GraphServlet, /em/swlib/getfile, /em/VncViewer.jar, /em/websvcs, /em/jobrec
v.]
Application: em started in phase0 (adf-config value is 0, profile value is -1)
Nov 28, 2025, 6:03:33,687 AM China Standard Time <Warning> <oracle.adf.framework.view.faces.partition.FeatureUtils> <ADF_FACES-30130> <Ignoring feature-dependency on feature "Adfu
lChoose". No such feature exists.>
Nov 28, 2025, 6:03:34,431 AM China Standard Time <Notice> <Log Management> <BEA-170027> <The server has successfully established a connection with the Domain level Diagnostic Se
rvice.>
Nov 28, 2025, 6:03:34,873 AM China Standard Time <Notice> <WebLogicServer> <BEA-000365> <Server state changed to ADMIN.>
Nov 28, 2025, 6:03:34,919 AM China Standard Time <Notice> <WebLogicServer> <BEA-000365> <Server state changed to RESUMING.>
Nov 28, 2025, 6:03:34,919 AM China Standard Time <Notice> <WX> <BEA-149535> <WX Resiliency Activity Servers: All Servers : Resolving connection list DomainRuntimeServiceMBean>
Nov 28, 2025, 6:03:35,035 AM China Standard Time <Warning> <Server> <BEA-002611> <The hostname "localhost", maps to multiple IP addresses: 127.0.0.1, 10.200.176.11, 0:0:0:0:0:
0:1:>
Nov 28, 2025, 6:03:35,037 AM China Standard Time <Notice> <WebLogicServer> <BEA-000398> <Secure mode enabled for WebLogic Server "AdminServer">
Nov 28, 2025, 6:03:35,037 AM China Standard Time <Notice> <WebLogicServer> <BEA-000329> <Started the WebLogic Server Administration Server "AdminServer" for domain "base_domain"
running in production mode.>
Nov 28, 2025, 6:03:35,047 AM China Standard Time <Notice> <Server> <BEA-002613> <Channel "Default[3]" is now listening on 127.0.0.1:7001 for protocols iiop, t3, ldap, snmp, http
>
Nov 28, 2025, 6:03:35,047 AM China Standard Time <Notice> <Server> <BEA-002613> <Channel "Default[]" is now listening on 192.168.3.1:7001 for protocols iiop, t3, ldap, snmp, ht
tp>
Nov 28, 2025, 6:03:35,048 AM China Standard Time <Notice> <Server> <BEA-002613> <Channel "Default" is now listening on 10.200.176.11:7001 for protocols iiop, t3, ldap, snmp, htt
p>
Nov 28, 2025, 6:03:35,048 AM China Standard Time <Notice> <Server> <BEA-002613> <Channel "Default[2]" is now listening on 0:0:0:0:0:0:1klo:7001 for protocols iiop, t3, ldap, s
nmp, http>
Nov 28, 2025, 6:03:35,053 AM China Standard Time <Warning> <Security> <BEA-090985> <Production Mode is enabled but the file or directory /home/FMW_home/Oracle/Middleware/Ora
cle_Home/user_projects/domains/base_domain/bin/nm.out is insecure since its permission is not a minimum of umask 027. SOLUTION: Change the file or directory permission to at most
allow only write by owner, read by group.>
Nov 28, 2025, 6:03:35,064 AM China Standard Time <Warning> <Security> <BEA-090983> <Secure Mode is enabled but the administration port is not enabled. SOLUTION: Enable the admin
istration port.>
Nov 28, 2025, 6:03:35,064 AM China Standard Time <Warning> <Security> <BEA-091033> <No dedicated network channel configured for HTTPS traffic. SOLUTION: Oracle recommends creati
ng a network channel for only HTTPS traffic for externally available applications. Configure your firewall so that the network channel is available externally, and that the default
network channel and other customer internal channels are only accessible internally.>
Nov 28, 2025, 6:03:35,079 AM China Standard Time <Warning> <Security> <BEA-091083> <Secure Mode requires that users in the Administrators group do not have obvious user names. S
OLUTION: Change the user name "weblogic" so it is not a commonly used administrator name.>
Nov 28, 2025, 6:03:35,232 AM China Standard Time <Notice> <WebLogicServer> <BEA-000360> <The server started in RUNNING mode.>
Nov 28, 2025, 6:03:35,236 AM China Standard Time <Notice> <WebLogicServer> <BEA-000365> <Server state changed to RUNNING.>
```

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

Server state changed to RUNNING.

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

1). Access to Enterprise Manager Console.

Login Page:

Domain Domain_base_domain

* User Name weblogic

* Password *****

Sign In

ORACLE

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Home Page:

base_domain

WebLogic Domain

Nov 28, 2025, 6:04:55 AM CST

Information

Certain functionality on this page is available only when you own the edit session lock. To obtain the lock, click "Lock and Edit" in the Change Center menu.

Servers

2 Down
1 Up

Clusters

2 Unknown

Deployments

16 Down
2 Up

Administration Server

Name AdminServer

Host localhost

Listen Port 7001

Servers

Name	Status	Cluster	Machine	State	Health	Listen Port	URL
AdminServer(admin)	Running		SUSE_Machine_1	Running	OK	7001	
oim_server1	Shutdown	oim_cluster_1	SUSE_Machine_1	Shutdown	Unknown	14000	Ur
soa_server1	Shutdown	soa_cluster_1	SUSE_Machine_1	Shutdown	Unknown	7003	Ur

Columns Hidden 34

Servers 3 of 3

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

ORACLE Enterprise Manager Fusion Middleware Control 14.1.2

base_domain (Oracle WebLogic Domain)

Nov 28, 2025, 6:06:49 AM CST

Information
Certain functionality on this page is available only when you own the edit session lock. To obtain the lock, click "Lock and Edit" in the Change Center menu.

Servers
1 Down
2 Up

Administration Server
Name: AdminServer
Host: localhost
Listen Port: 7001

Servers

Name	Status	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)	Running		SUSE_Machine_1	Running	OK	7001
oim_server1	Shutdown	oim_cluster_1	SUSE_Machine_1	Shutdown	Unknown	14000
soa_server1	Running	soa_cluster_1	SUSE_Machine_1	Running	OK	7003

Columns Hidden: 34 Servers: 3 of 3

ORACLE Enterprise Manager Fusion Middleware Control 14.1.2

base_domain (Oracle WebLogic Domain)

Nov 28, 2025, 6:11:03 AM CST

Information
Certain functionality on this page is available only when you own the edit session lock. To obtain the lock, click "Lock and Edit" in the Change Center menu.

Servers
3 Up

Administration Server
Name: AdminServer
Host: localhost
Listen Port: 7001

Servers

Name	Status	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)	Running		SUSE_Machine_1	Running	OK	7001
oim_server1	Running	oim_cluster_1	SUSE_Machine_1	Running	OK	14000
soa_server1	Running	soa_cluster_1	SUSE_Machine_1	Running	OK	7003

Columns Hidden: 34 Servers: 3 of 3

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

2). Access to Administration Server Console through WebLogic Remote Console.

Login Page:

WebLogic Server 14.1.2

ORACLE
WebLogic Server Sign In
Welcome

Username:

Password:

Sign In

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Home Page:

WebLogic Remote Console

File Edit View Help

WebLogic Remote Console 2.4.18

Search

Security warnings detected. (View/Refresh Report)

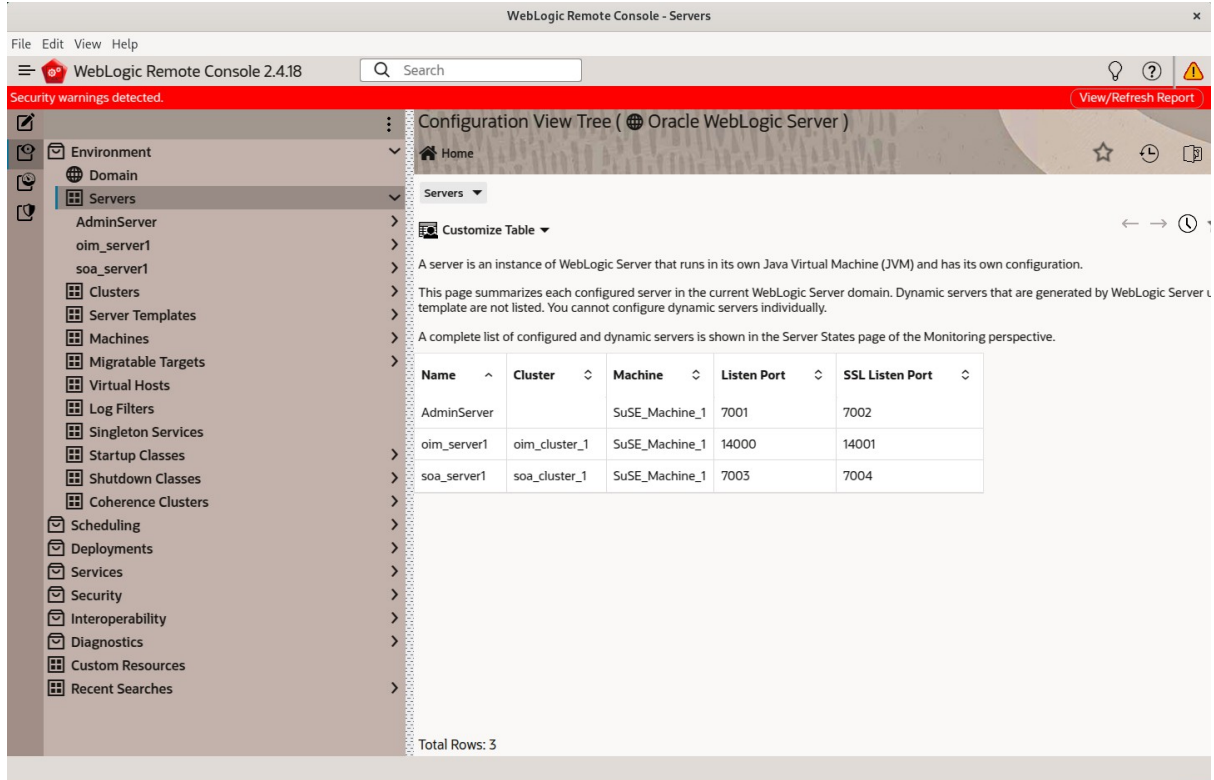
Home (Oracle WebLogic Server)

Home

Trees

- Edit Tree**
Maintain configuration of the WebLogic domain you are currently working with.
- Configuration View Tree**
Examine read-only configuration of the WebLogic domain you are currently working with.
- Monitoring Tree**
View runtime MBean information for select resources in the WebLogic domain you are currently working with.
- Security Data Tree**
Manage security-related information (e.g. users, groups, roles, policies, credentials, etc.) in the WebLogic domain you are currently working with.

Viewing the summary of servers:

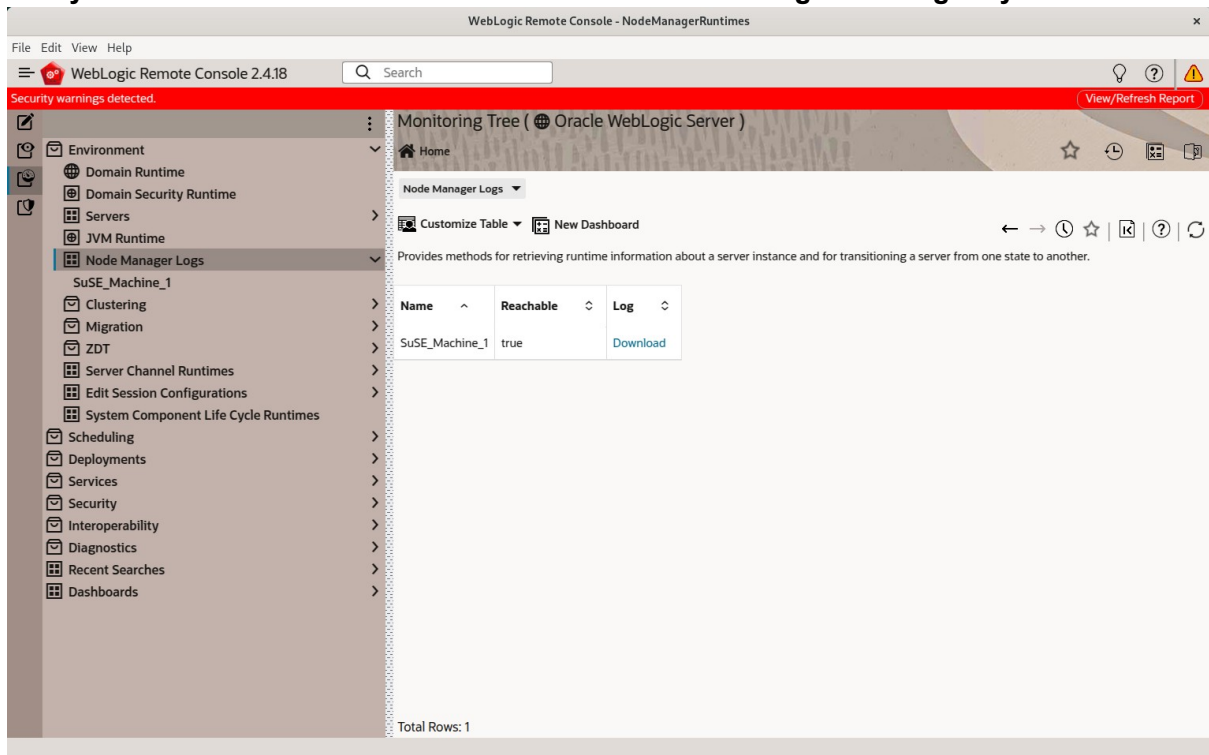


The screenshot shows the 'WebLogic Remote Console - Servers' interface. The left sidebar contains a tree view with categories like Environment, Domain, Servers, Clusters, Machines, etc. The 'Servers' category is expanded, showing a list of servers: AdminServer, oim_server1, and soa_server1. The main pane displays the 'Configuration View Tree (Oracle WebLogic Server)' with a 'Customize Table' button. Below this, a table lists the configured servers:

Name	Cluster	Machine	Listen Port	SSL Listen Port
AdminServer		SuSE_Machine_1	7001	7002
oim_server1	oim_cluster_1	SuSE_Machine_1	14000	14001
soa_server1	soa_cluster_1	SuSE_Machine_1	7003	7004

Total Rows: 3

Verify that the Admin Server can connect to the node manager running on your machine.



The screenshot shows the 'WebLogic Remote Console - NodeManagerRuntimes' interface. The left sidebar contains a tree view with categories like Environment, Domain Runtime, Servers, JVM Runtime, Node Manager Logs, etc. The 'Node Manager Logs' category is expanded, showing a list of node managers: SuSE_Machine_1. The main pane displays the 'Monitoring Tree (Oracle WebLogic Server)' with a 'Customize Table' button. Below this, a table lists the node managers:

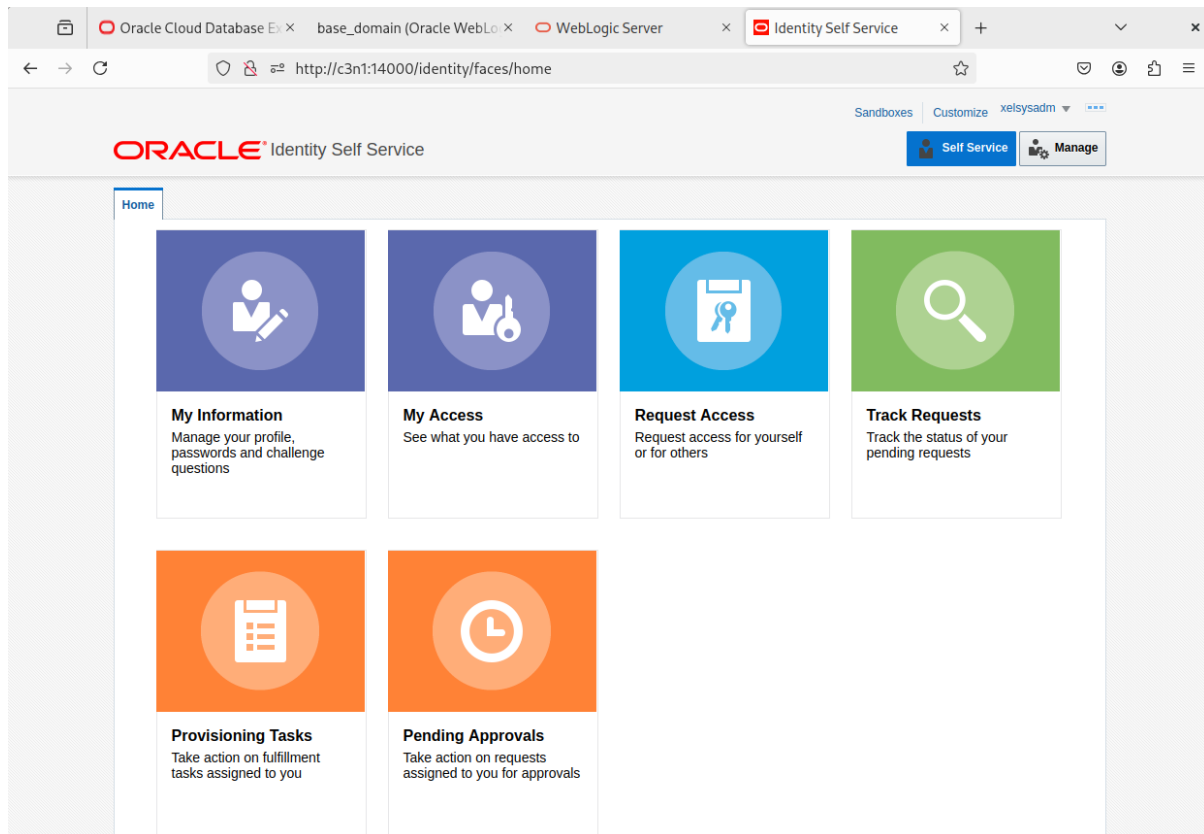
Name	Reachable	Log
SuSE_Machine_1	true	Download

Total Rows: 1

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

The screenshot shows a web browser window with the Oracle Identity Self Service sign-in page. The browser tabs include 'Oracle Cloud Database', 'base_domain (Oracle WebLogic Server)', and 'Identity Self Service'. The address bar shows the URL 'http://c3n1:14000/identity/faces/signin'. The page header features the Oracle logo and 'Identity Self Service' text, with links for 'Accessibility', 'Help', and 'About Oracle'. The main content area contains a 'Sign In' box with the text 'Sign in with your account'. It has input fields for 'User ID' (containing 'xelsysadm') and 'Password' (masked with dots). A 'Sign In' button is below the fields. Links for 'Forgot User Login?', 'Forgot Password?', 'New User Registration', and 'Track My Registration' are at the bottom of the box. The footer shows 'Copyright © 2011, 2025, Oracle and/or its affiliates.'

The screenshot shows the 'Password Management' page in the Oracle Identity Self Service. The browser tabs are the same as the previous screenshot. The address bar shows a URL for setting challenge questions. The page header includes the Oracle logo and 'Identity Self Service' text, with a user dropdown showing 'xelsysadm'. The main content area is titled 'Password Management' and includes a '* Required field' note. It prompts the user to 'Register challenge questions for your account' and displays three questions with corresponding answer fields: 'Who was your fifth grade teacher?' (Answer: suse1), 'Where were you New Year's 2000?' (Answer: suse2), and 'What is the name of a city where you got lost?' (Answer: suse3). A 'Submit' button is at the bottom right. The footer shows 'Copyright © 2011, 2025, Oracle and/or its affiliates.'



4). Access to OIM Identity System Administration Console – URL: <http://host:port/sysadmin>

The screenshot shows the Oracle Identity System Administration console sign-in page. The browser tabs include 'Oracle Cloud Database', 'base_domain (Oracle WebLogic Server)', 'WebLogic Server', 'Identity Self Service', and 'Identity System Administration'. The address bar shows the URL 'http://c3n1:14000/sysadmin/faces/signin'. The page header includes the Oracle logo and 'Identity System Administration' with links for 'Accessibility', 'Help', and 'About Oracle'. The main content area features a 'Sign In' form with the text 'Sign in with your account'. The form has two input fields: 'User ID' with the value 'xelsysadm' and 'Password' with masked characters. A 'Sign In' button is located below the password field. The footer contains the copyright notice: 'Copyright © 2011, 2025, Oracle and/or its affiliates.'

The screenshot shows the Oracle Identity System Administration console search results page. The browser tabs include 'Oracle Cloud Database', 'base_domain (Oracle WebLogic Server)', 'WebLogic Server', 'Identity Self Service', and 'Identity System Administration'. The address bar shows the URL 'http://c3n1:14000/sysadmin/faces/home?_adf.no-new-window-redirect=true'. The page header includes the Oracle logo and 'Identity System Administration' with links for 'Accessibility', 'Sandboxes', 'Help', 'Sign Out', and 'xelsysadm'. The left sidebar contains a navigation menu with categories: 'Provisioning Configuration' (Form Designer, IT Resource, Application Instances, Manage Connector), 'System Entities' (User, Organization, Role, Catalog), 'System Configuration' (Home Organization Policy, Self Service Capabilities, Lookups, Role Categories, Import, Export), 'Upgrade', and 'Workflows' (Approval). The main content area is titled 'Search Forms' and includes a 'Search' section with a 'Resource Type' input field and a search button. Below the search section is a 'Search Results' table with columns 'Row', 'Form Name', 'Type', and 'Resource Type'. The table is currently empty, displaying 'No data to display.' The footer contains the copyright notice: 'Copyright © 2011, 2025, Oracle and/or its affiliates.' and an 'About' button.

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

Welcome to the Oracle SOA Platform on WebLogic

SOA Version: v14.1.2.0.0 - 14.1.2.0.0_241122.0031
WebLogic Server 14.1.2.0.0 (14.1.2.0.0)
Running on: soa_server1

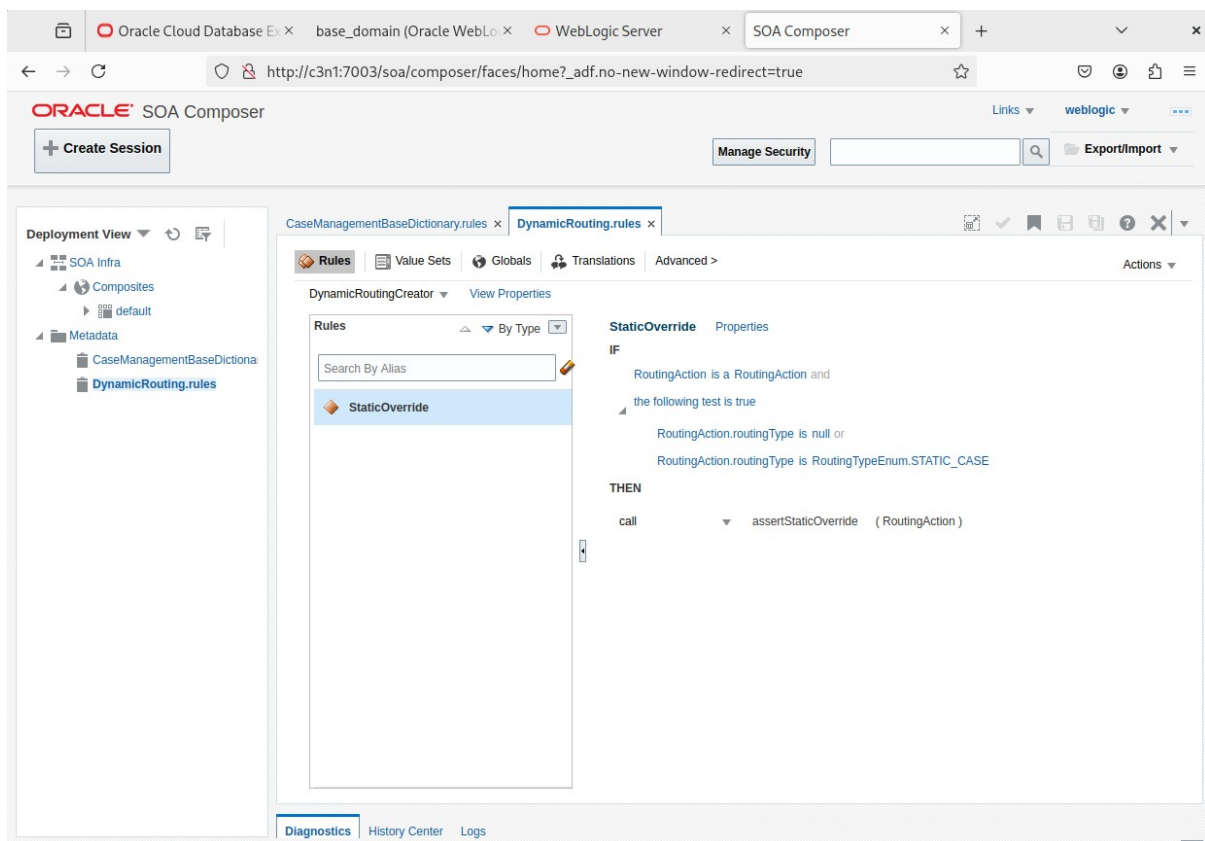
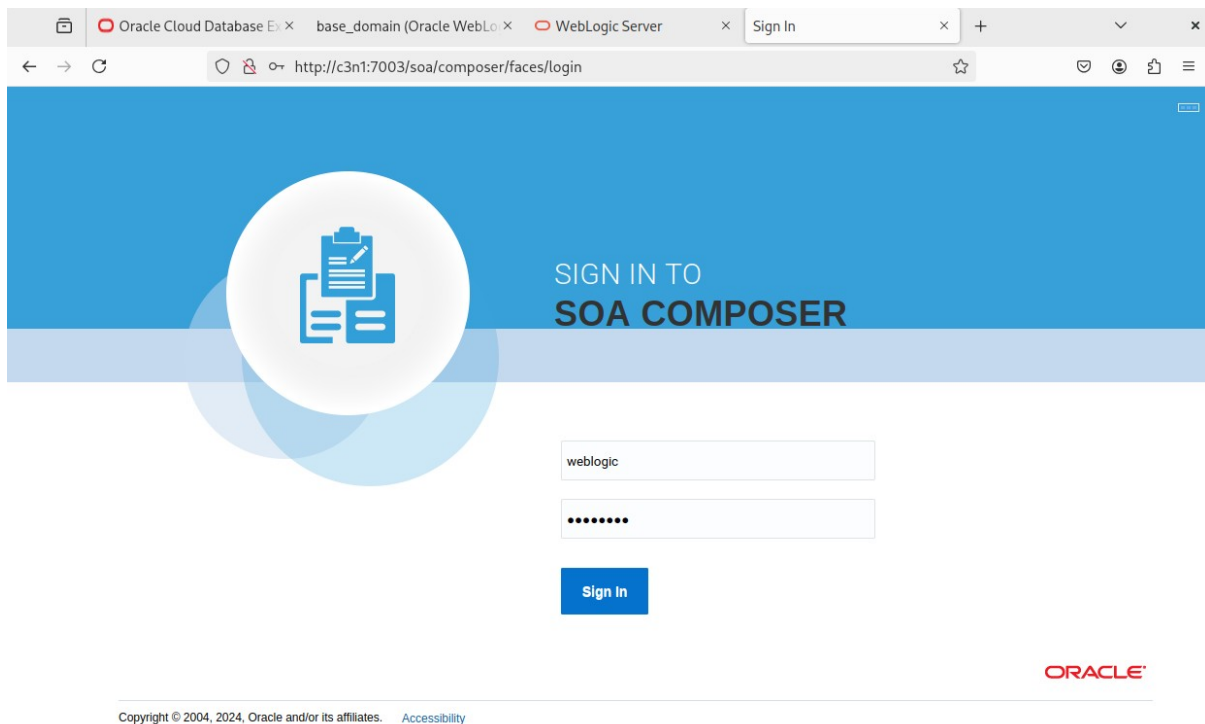
The following composites are currently deployed:

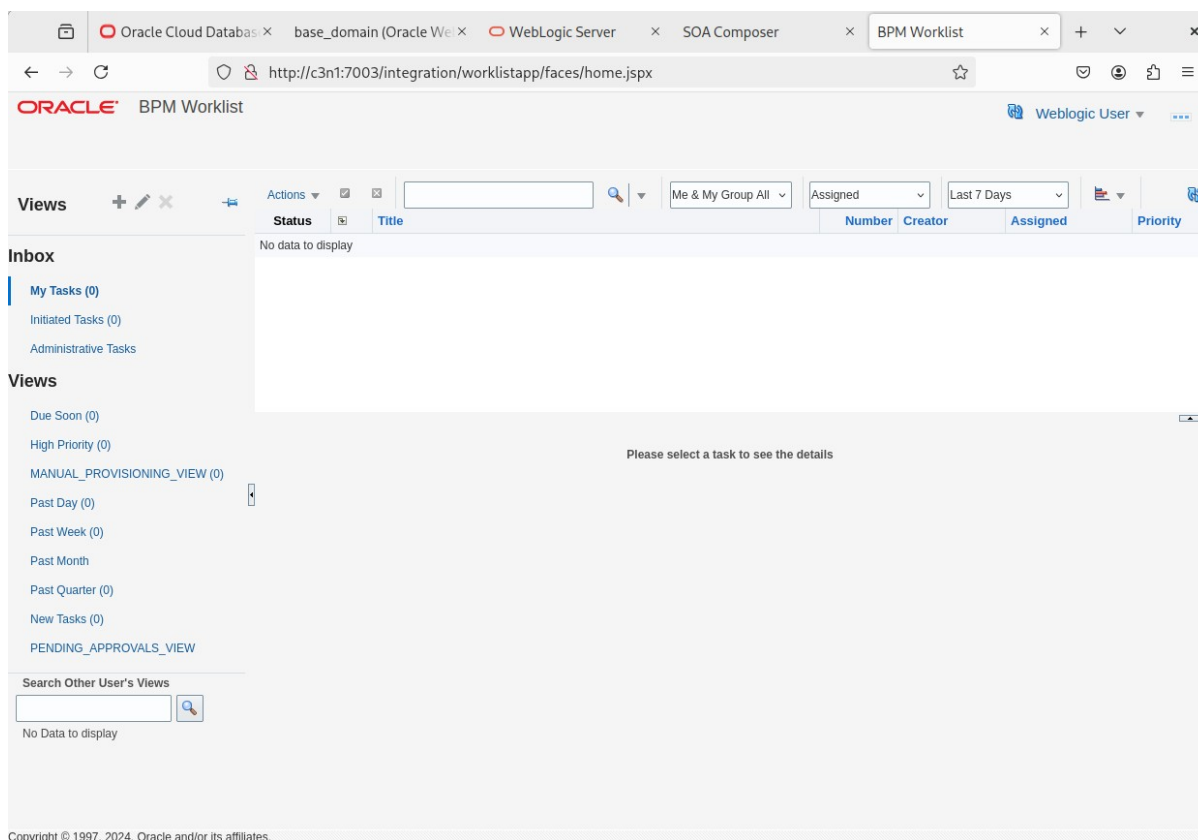
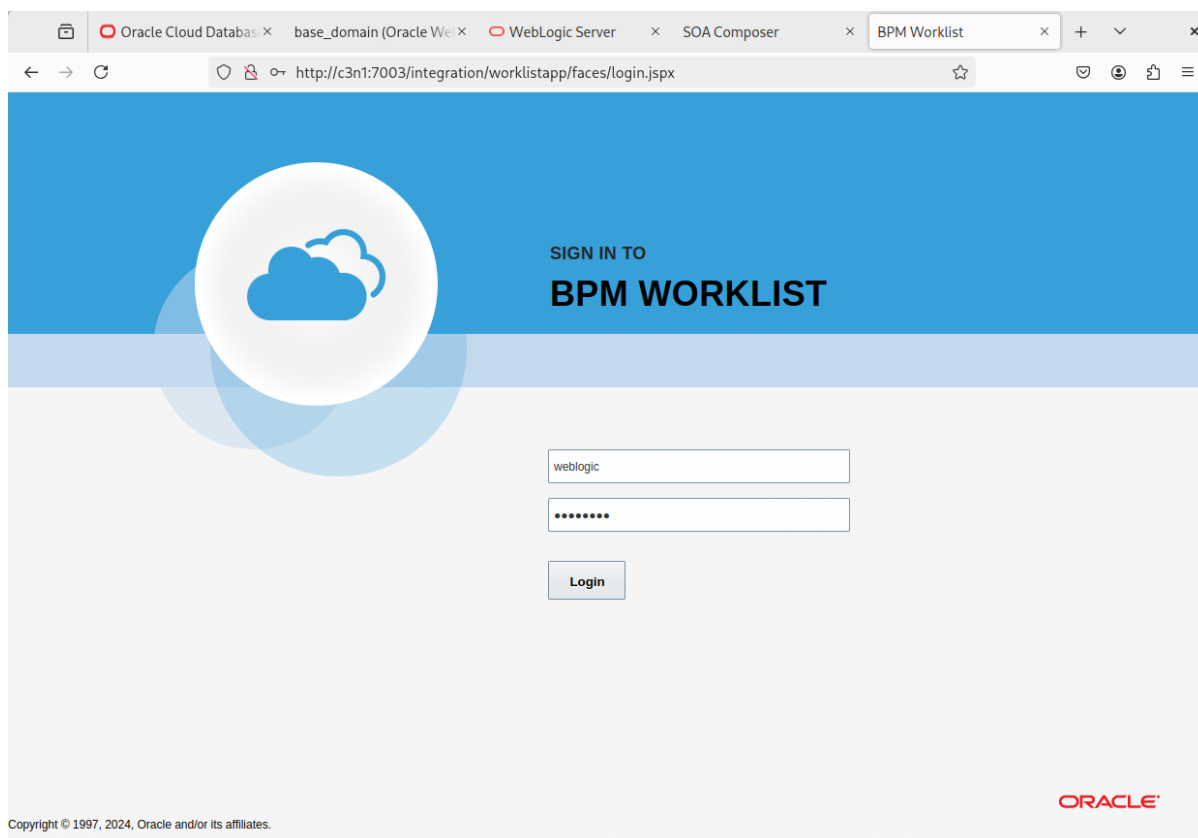
1. default/AutoApproval!1.0*soa_acb4a3a3-d94b-429f-ab06-5b30b0a7ecc1
◦ [Test RequestApprovalService](#)
2. default/BeneficiaryManagerApproval!4.0*soa_1f29e28c-c109-499d-9a4e-aa83dddec70a5
◦ [Test RequestApprovalService](#)
3. default/CertificationOverseerProcess!2.0*soa_7a428531-81ae-4eea-ala2-f01d297401dc
◦ [Test CertificationTaskService](#)
4. default/CertificationProcess!2.2*soa_4bac3224-d538-4d19-ad59-eea34805f27f
◦ [Test CertificationTaskService](#)
5. default/DefaultOperationalApproval!5.0*soa_6bf69884-daa5-49ee-b8c9-5143703dce74
◦ [Test RequestApprovalService](#)
6. default/DefaultRequestApproval!6.0*soa_f4c56faf-7515-47d0-a301-16f246e7fe36
◦ [Test RequestApprovalService](#)
7. default/DefaultRoleApproval!3.0*soa_58a2e402-3407-4173-816d-486b8df67af6
◦ [Test RequestApprovalService](#)
8. default/DefaultSODApproval!2.0*soa_b1040d01-ece1-47a5-8be4-681523147c2b
◦ [Test RequestApprovalService](#)
9. default/DisconnectedProvisioning!2.0*soa_25dcbeb2-f6af-43c6-9f99-c0d1a49dc83b
◦ [Test manualprovisioningprocess_client](#)
10. default/IdentityAuditRemediation!1.0*soa_571d7789-cdc8-434d-9bad-27e31ae3892d
◦ [Test IdentityAuditRemediationService](#)
11. default/OACGRoleAssignSODCheck!1.0*soa_eac0b1d3-877d-4eef-80bb-6b917e2f2b80
◦ [Test RequestApprovalService](#)
12. default/ProvideInformation!3.0*soa_d95ab45b-0c3c-4ca9-8f9e-4ef7ce30466b
◦ [Test RequestApprovalService](#)
13. default/RequesterManagerApproval!3.0*soa_3ffeaed9-a027-43dd-8ecd-306401507a5f
◦ [Test RequestApprovalService](#)
14. default/RoleLCMApproval!1.0*soa_60b31b51-680c-4768-9eda-72c64863be8c

Links

[SOA Composer](#)
[BPM Worklist](#)

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



7). Access to Oracle BPM Worklist – URL:<http://host:7003/integration/worklistapp>

End of Oracle Identity Manager.

Appendix

This document shows how to create a standard topology for Oracle Fusion Middleware components 14c on SLES 15 SP7. You can extend this topology to make it highly available and secure so it is suitable for a production system.

*Thanks for selecting **SUSE Linux Enterprise Server** as your Linux platform of choice!*