JD Edwards EnterpriseOne

WebCenter Spaces Configuration for Related Information Application Framework Guide

Release 9.1

E24197-02

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ORACLE

JD Edwards EnterpriseOne WebCenter Spaces Configuration for Related Information Application Framework Guide, Release 9.1

E24197-02

Contents

Preface

Welcome to the *JD Edwards EnterpriseOne Related Information Application Framework for WebCenter Installation and Configuration Guide*.

Audience

This guide is intended for system administrators and technical consultants who are responsible for installing and configuring JD Edwards EnterpriseOne.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Documents

You can access related documents from the JD Edwards EnterpriseOne Release Documentation Overview pages on My Oracle Support. Access the main documentation overview page by searching for the document ID, which is 876932.1, or by using this link:

https://support.oracle.com/CSP/main/article?cmd=show&type=NOT&id=876932.1

This guide contains references to server configuration settings that JD Edwards EnterpriseOne stores in configuration files (such as jde.ini, jas.ini, jdbj.ini, jdelog.properties, and so on). Beginning with the JD Edwards EnterpriseOne Tools Release 8.97, it is highly recommended that you only access and manage these settings for the supported server types using the Server Manager program. See the *Server Manager Guide*.

Conventions

The following text conventions are used in this document:

Convention	Meaning
Bold	Indicates field values.
*Italic*s	Indicates emphasis and JD Edwards EnterpriseOne or other book-length publication titles.
`Monospace`	Indicates a JD Edwards EnterpriseOne program, other code example, or URL.

1 Architecture Overview

This chapter contains this topic:

- Section 1.1, "JD Edwards EnterpriseOne and WebCenter Single Sign-On Architecture".

1.1 JD Edwards EnterpriseOne and WebCenter Single Sign-On Architecture

JD Edwards EnterpriseOne and WebCenter single sign-on (SSO) supports creating contextually linked group spaces in JD Edwards EnterpriseOne, and opening the group space in WebCenter for collaboration among authorized users. Contextually linked group spaces are group spaces that are tied to a JD Edwards EnterpriseOne application form. SSO enables one-time login with multiple access between EnterpriseOne and WebCenter Spaces.

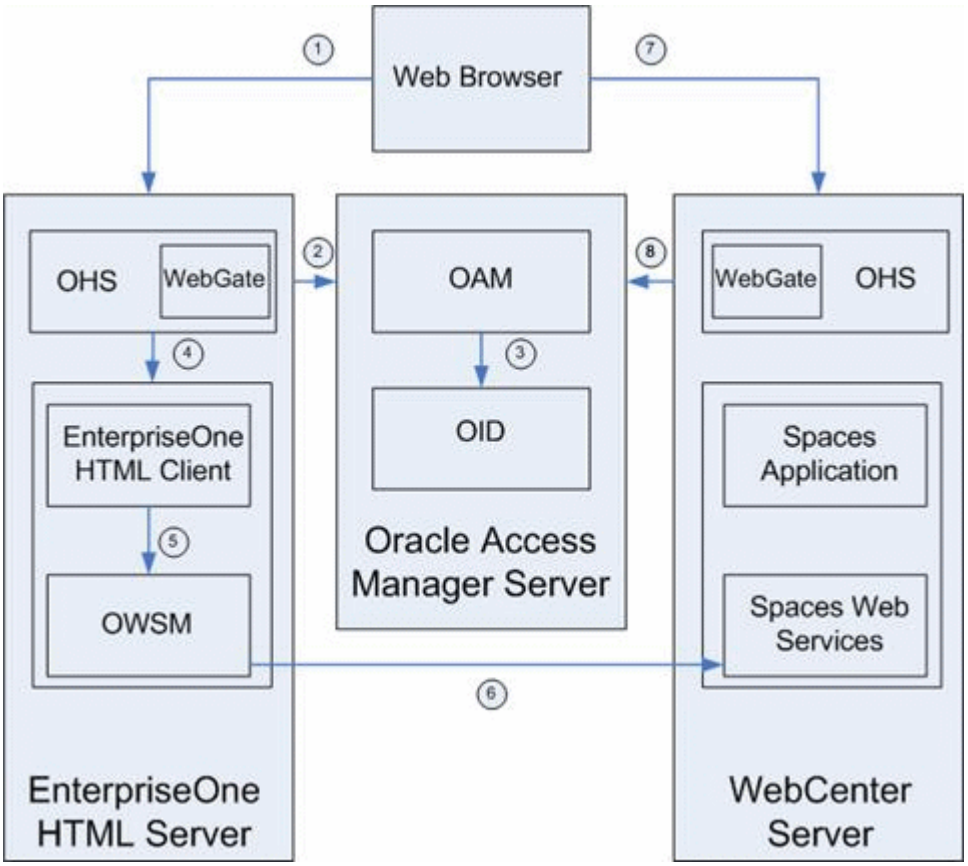
To support JD Edwards EnterpriseOne and WebCenter Spaces SSO, you deploy three major Oracle components:

- EnterpriseOne HTML Web Server
- Oracle Access Manager Server (OAM)
- WebCenter Spaces

OAM ensures SSO security between JD Edwards EnterpriseOne and WebCenter. Oracle Web Service Manager (OWSM) ensures server-to-server security between JD Edwards EnterpriseOne and WebCenter Spaces.

1.1.1 Architecture Overview

This diagram shows the architecture for SSO between JD Edwards EnterpriseOne and Web Center:



In summary:

1. Users access JD Edwards EnterpriseOne by entering their JD Edwards EnterpriseOne URL in a Web browser, and then entering their SSO user ID and password on the sign-on page.
2. The WebGate component on the Oracle HTTP Server (OHS) captures the user credentials and sends them to Oracle Access Manager (OAM) for authentication.
3. OAM compares the user credentials against the Oracle Internet Directory (OID).

If the SSO user credentials are not in OID, OAM notifies WebGate and the user is denied access to JD Edwards EnterpriseOne.

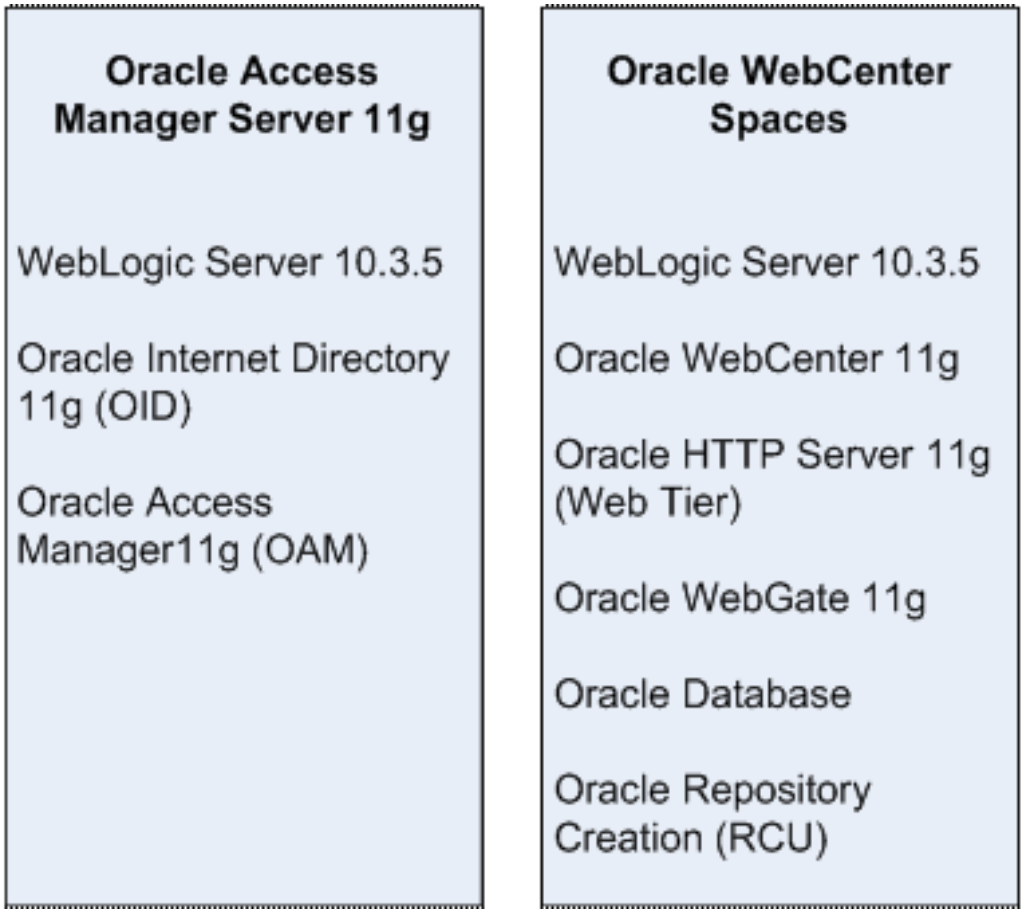
If OAM finds the SSO user credentials in OID, OAM authenticates the user credentials.

1. After successful authentication, the user accesses the JD Edwards EnterpriseOne HTML client. If the user is WebCenter enabled, the **My Web Center Group Spaces** link appears under the **Action** section of the EnterpriseOne menu. Clicking the link opens another browser that opens the WebCenter home page without requiring the user to sign in again.
2. The EnterpriseOne HTML client calls a Web Center web service through OWSM. For example, the EnterpriseOne HTML client fetches a list of group spaces from WebCenter. This creates group space links in the Related Information Application Framework. OWSM secures the communication.
3. When the user clicks the group space link in JD Edwards EnterpriseOne, a new Web browser opens and tries to connect to the WebCenter group space.

4. The WebGate on the WebCenter server determines that the user has been authenticated and allows the user to access the group space without logging in again.

1.1.2 Configuring the SSO Environment

One way to configure SSO is to deploy different components to three machines. The following diagram shows this configuration strategy:



1.1.3 Software Versions

You download the software components from Oracle Technology Network (OTN). This table identifies the software versions that JD Edwards EnterpriseOne used to configure the SSO solution, and these software versions have been tested:

Software	Version
WebCenter Spaces	11.1.1.5
WebLogic Server	10.3.5.0
Repository Creation Utility (RCU)	11.1.1.5
Oracle Database	11.2.0.1
Oracle Internet Directory (OID)	11.1.1.5

Software	Version
Oracle Access Manager (OAM)	11.1.1.5
Oracle WebGate	11.1.1.5
OWSM (Oracle Web Services Manager) / SOA	11.1.1.5
FMW Web Tier (OHS)	11.1.1.5

The remaining chapters in this document, Chapters 2, 3, and 4, provide information for installing the Oracle software components on three different servers. These chapters are excerpts from the Oracle Fusion Middleware documents, which discuss how to install many other components that you do not need. You can use these three chapters as a guide for understanding which components you need to deploy for your platform. If you need more detail, you can find the component installation information in Oracle documents, which are located on Oracle Technology Network (OTN).

See Also:

- Oracle Fusion Middleware Installation Guide for Oracle Identity Management 11g Release 1 (11.1.1)

  http://docs.oracle.com/cd/E21764_01/install.1111/e12002/toc.htm

- Oracle Fusion Middleware Administrator's Guide for Oracle Access Manager with Oracle Security Token Service 11g Release (11.1.l)

  http://docs.oracle.com/cd/E23943_01/doc.1111/e15478.pdf

- Oracle Fusion Middleware Installation Guide for Oracle WebCenter 11g Release 1 (11.1.1.5) on Oracle Technology Network

  http://docs.oracle.com/cd/E21764_01/install.1111/e12001/toc.htm

- Oracle Fusion Middleware Administrator's Guide for Oracle WebCenter 11g Release 1 (11.1.1.5) on Oracle Technology Network

  http://docs.oracle.com/cd/E21764_01/webcenter.1111/e12405/toc.htm

- Oracle Fusion Middleware Installation Guide for Oracle WebLogic Server 11g Release 1 (10.3.5) on Oracle Technology Network

  http://docs.oracle.com/cd/E21764_01/doc.1111/e14142/toc.htm

2

Oracle Access Manager Server

This chapter contains these topics:

2.1 Understanding Oracle Access Manager

Oracle Access Manager 11g provides a full range of Web perimeter security functions that include Web single sign-on, authentication and authorization, policy administration, auditing, and more.

Single sign-on (SSO) enables users and groups of users to access multiple applications after authentication. SSO eliminates multiple sign-on requests. Oracle Access Manager 11g is the Oracle Fusion Middleware 11g single sign-on solution.

Oracle Access Manager 11g is a Java Platform, Enterprise Edition (Java EE) based enterprise-level security application that provides restricted access to confidential information and centralized authentication and authorization services.

A web server, application server, or any third-party application must be protected by a webgate that is registered with Oracle Access Manager as an agent. To enforce policies, the agent acts as a filter for HTTP requests. Oracle Access Manager enables administrators to define authentication and authorization policies.

Prerequisites

- Create local user ID and password credentials.
- Log into the machine that will contain your OAM components.
- Install a supported database level. For example: 11.2.0.1

> **Note:** Check the EnterpriseOne Minimum Technical Requirements for supported database level if this database is also used for EnterpriseOne.

- Create database schemas using Repository Creation Utility (RCU) 11.1.1.5.0. See Create Database Schemas with Repository Creation Utility.

- Install Oracle WebLogic Server 10.3.5 with a 64-bit JDK. You do not need to create a domain. You create a domain during the OAM/OID installation. See Installing WebLogic Server.
- Install the base version of Oracle Internet Directory 11.1.1.2; Oracle Internet Directory 11.1.1.5 is a patchset installer. You must install Oracle Internet Directory prior to installing Oracle Access Manager 11g.

2.2 Installing Oracle Internet Directory

Before installing Oracle Access Manager 11g, you must have Oracle WebLogic Server and Oracle Internet Directory 11.1.1.5 installed and configured.

First, you install Oracle Internet Directory (OID), version 11.1.1.2. After you install this version, you upgrade to version 11.1.1.5. After installing and upgrading OID to the appropriate version, you verify the installation.

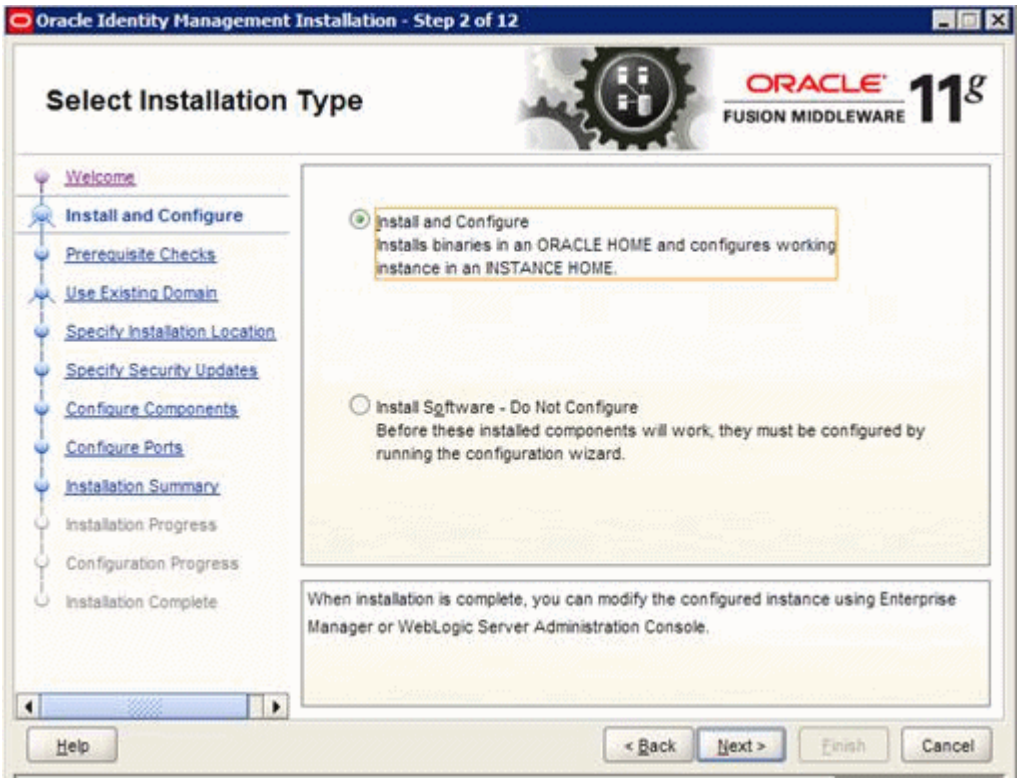
2.2.1 Installing Oracle Internet Directory 11.1.1.2.0

Use these steps to install OID 11.1.1.2.0.

1. Download and unzip *ofm_idm_<platform>_11.1.1.2.0_64_disk1_1of1.zip*.
2. Open the OID download directory.
3. Launch the installer:
   - On Windows: *setup.exe* with **Run as administrator** option.
   - On UNIX: *./runInstaller* as a non-root user.

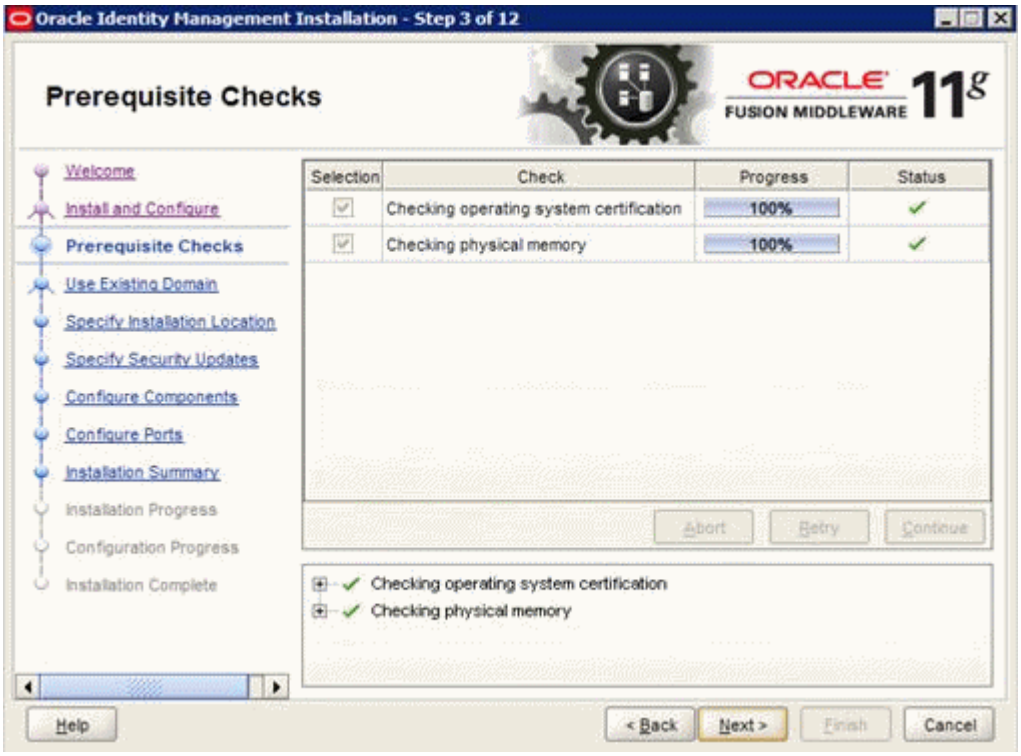
     This action starts the Oracle Universal Installer.

4. Select **Install and Configure** type.

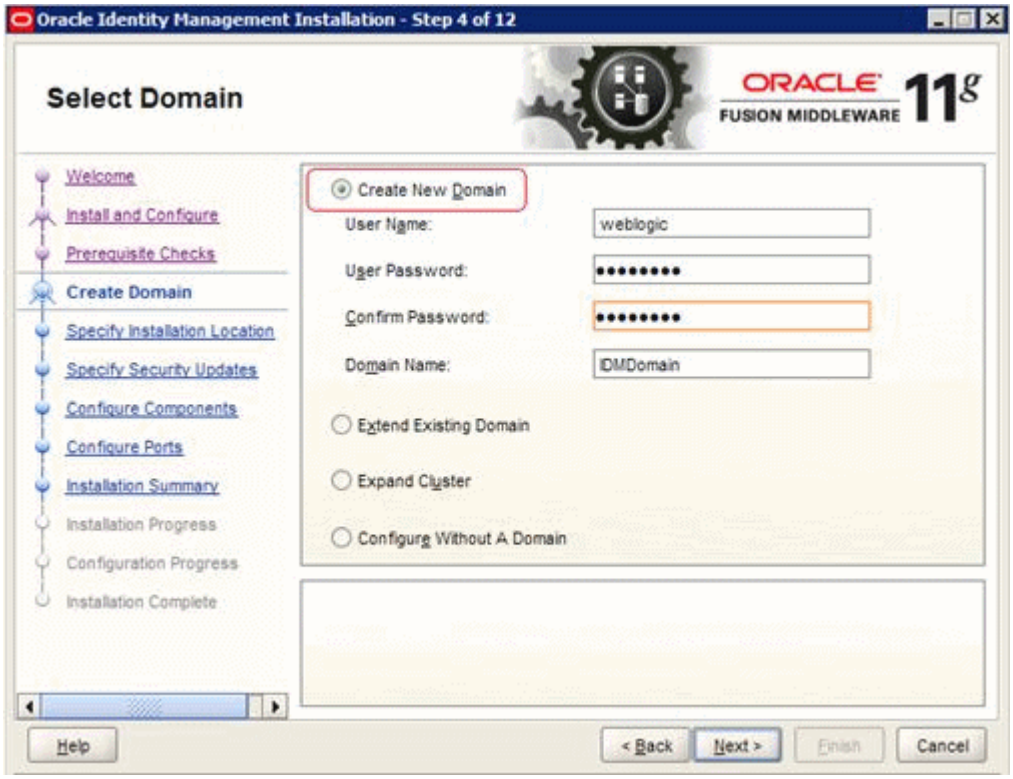


5. Click **Next**.

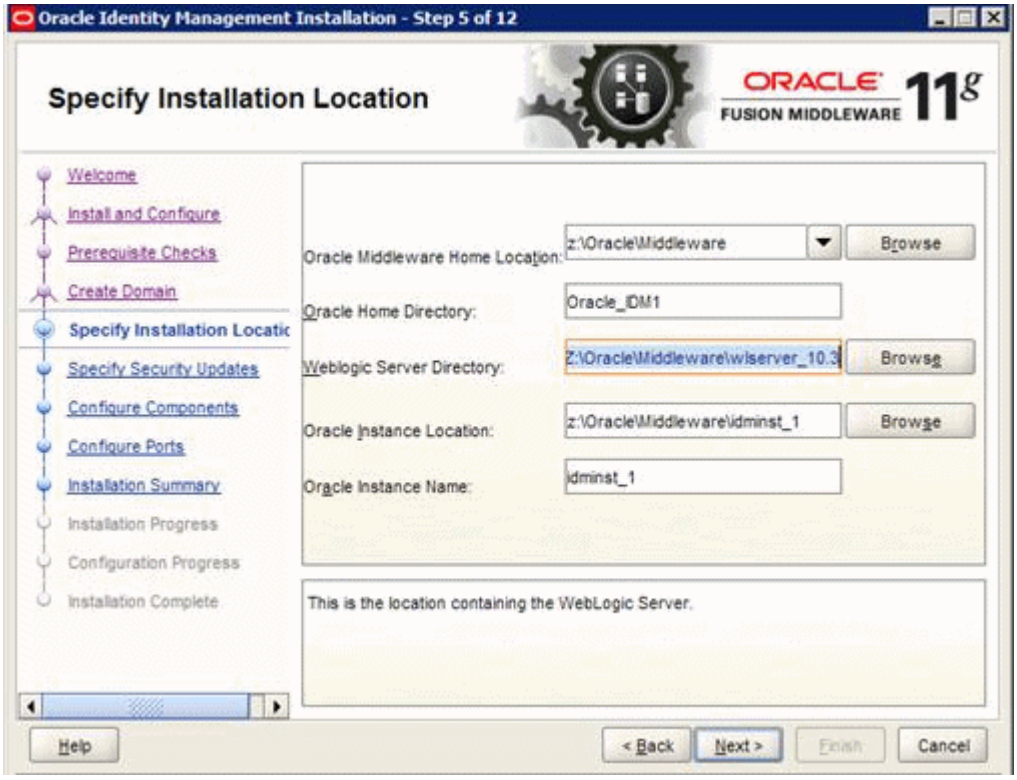
6. The installer performs prerequisite checks. Be sure to correct any failures before continuing.



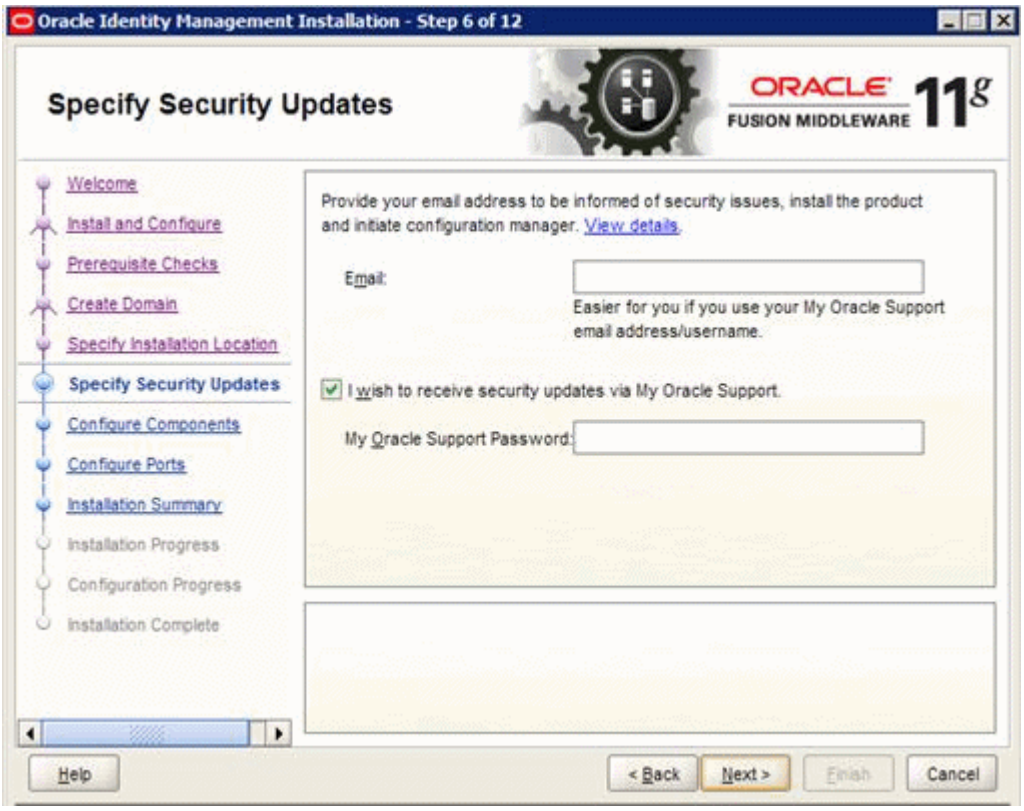
7. Click **Next**.
8. Select **Create New Domain** and enter the Domain Name, User Name, and Password.



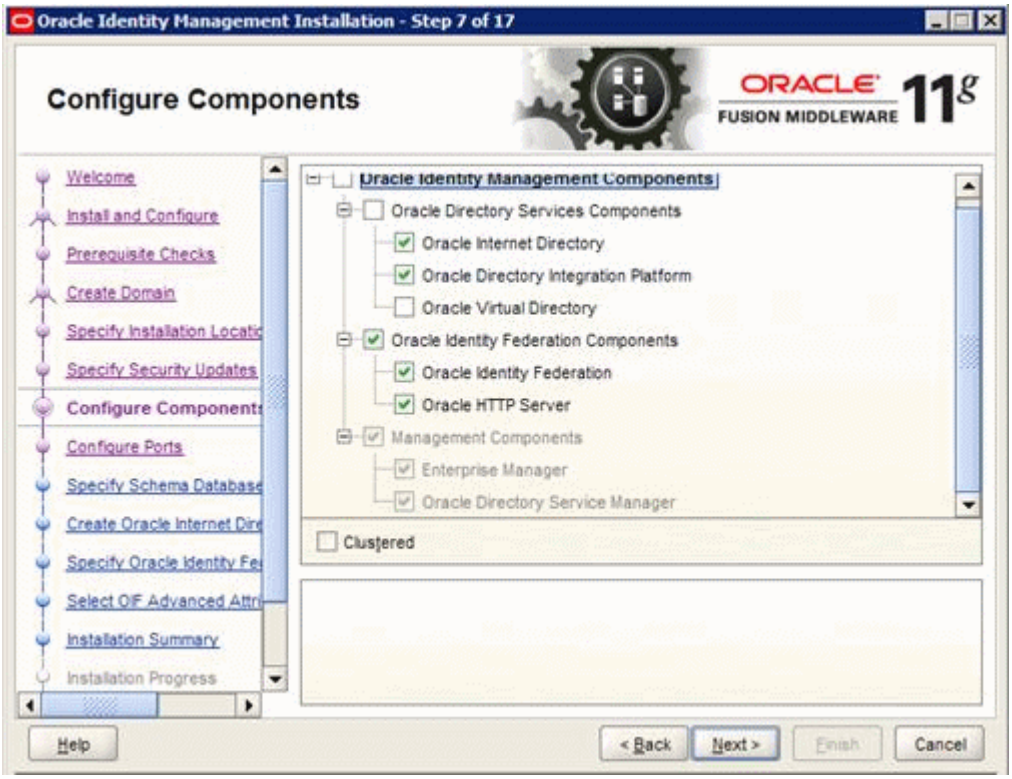
9. Click **Next**.
10. Specify the installation location.



11. Click **Next**.
12. Specify the Security Update option. Oracle recommends enabling this option to receive any security updates.



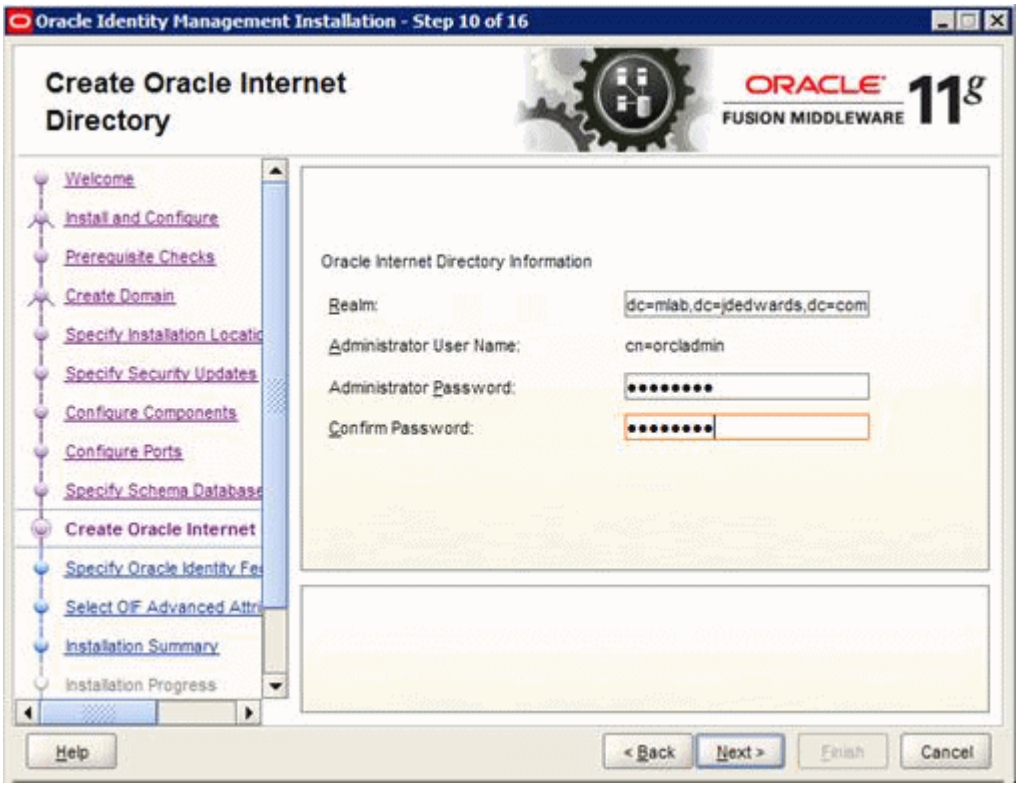
13. Click **Next**.
14. Clear any components that you do not want the installer to configure.



15. Click **Next**.
16. Select **Auto Port Configuration**.

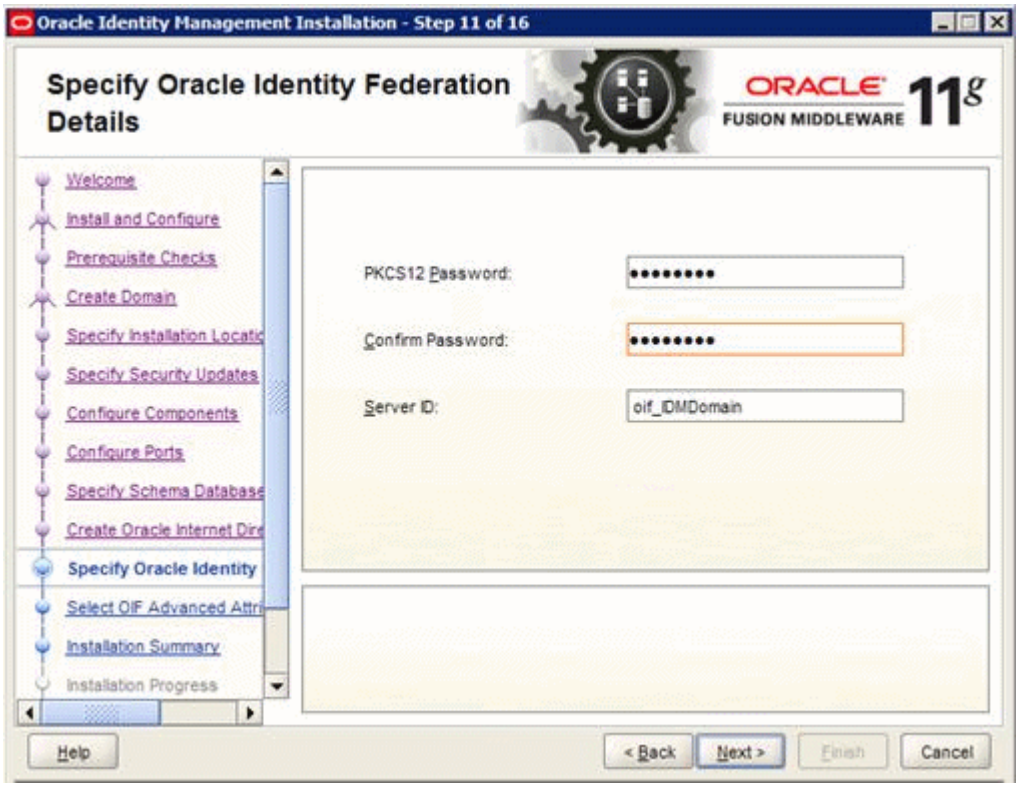
17. Click **Next**.
18. On Specify Schema Database page, enter the appropriate information for the following fields:
    - Database connect String
    - Schema Name = Default to ODS
    - Password

19. Click **Next**.
20. In the **Realm** field, enter the domain address of your Oracle Internet Directory.
21. Enter Oracle Internet Directory Administrator User Password. The default administrator user is **cn=orcladmin.**

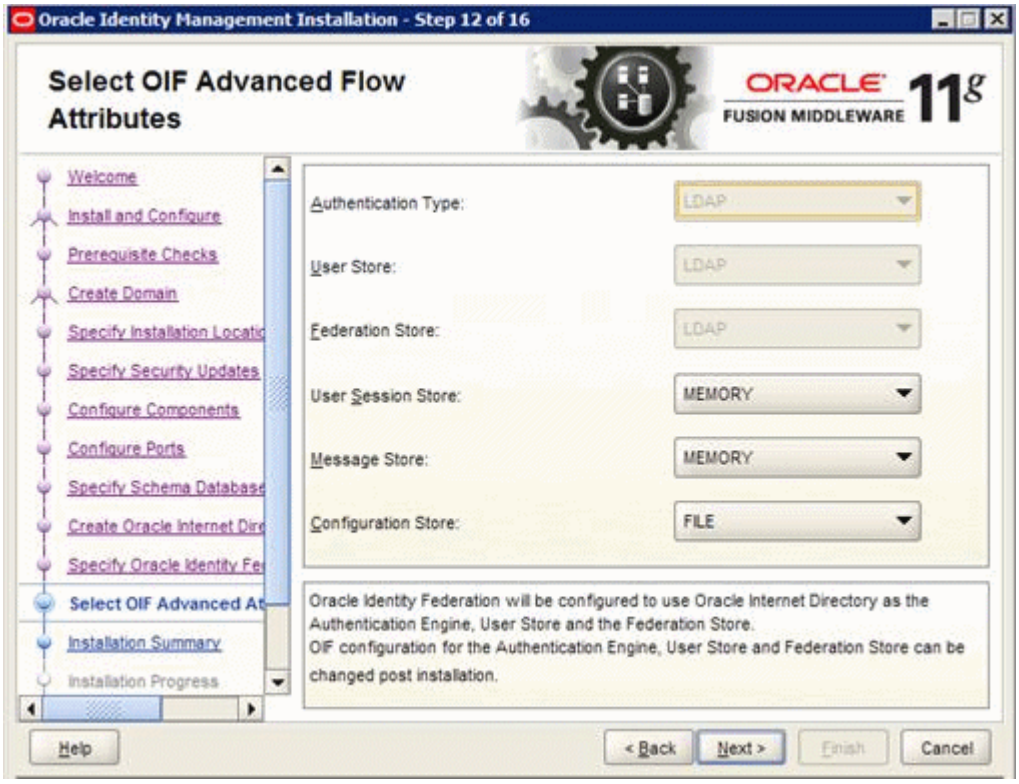


22. Click **Next.**

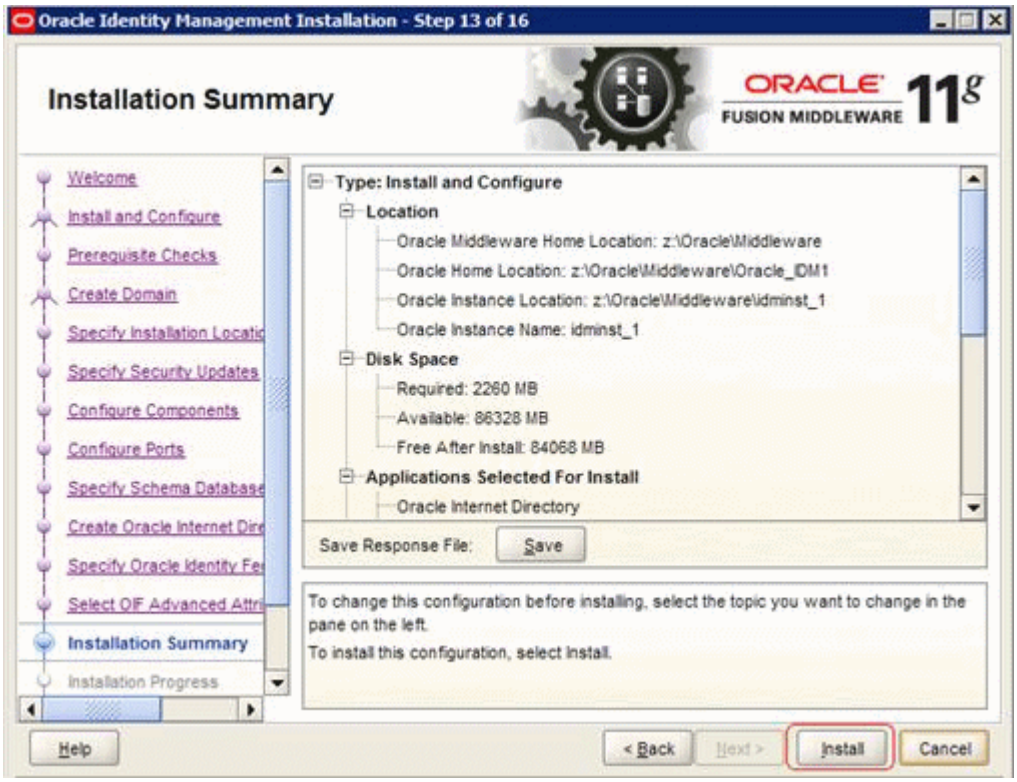
23. Enter the Federation Details if you have selected this component to be configured.



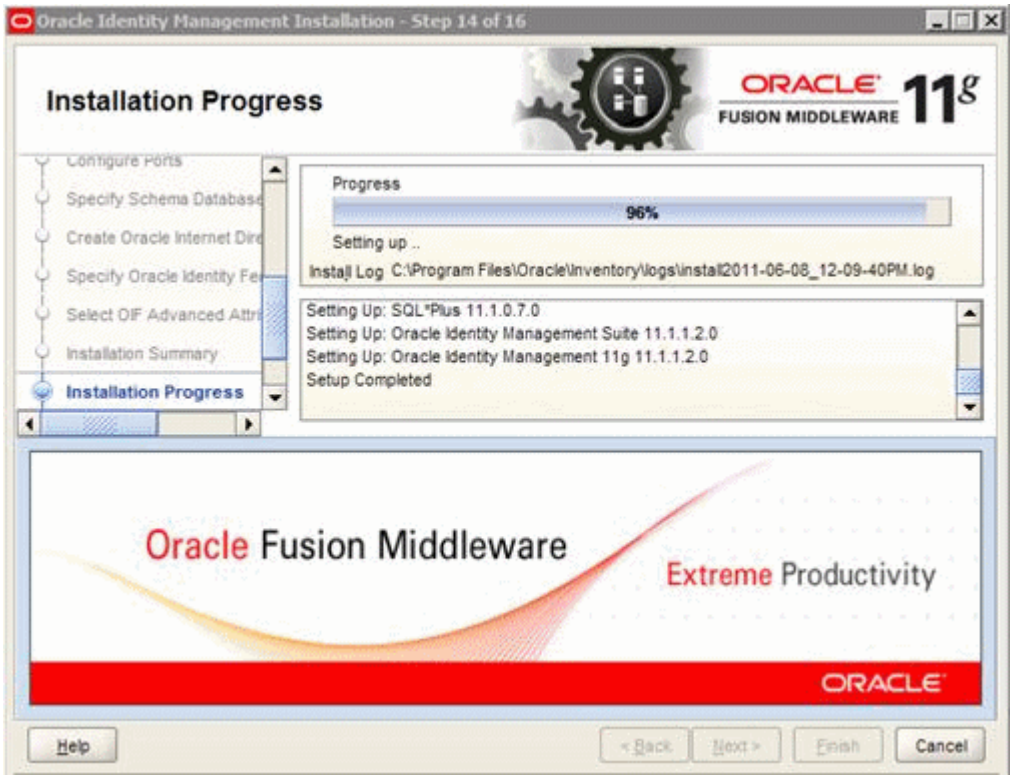
24. Click **Next**.
25. Accept the default values on the following page.



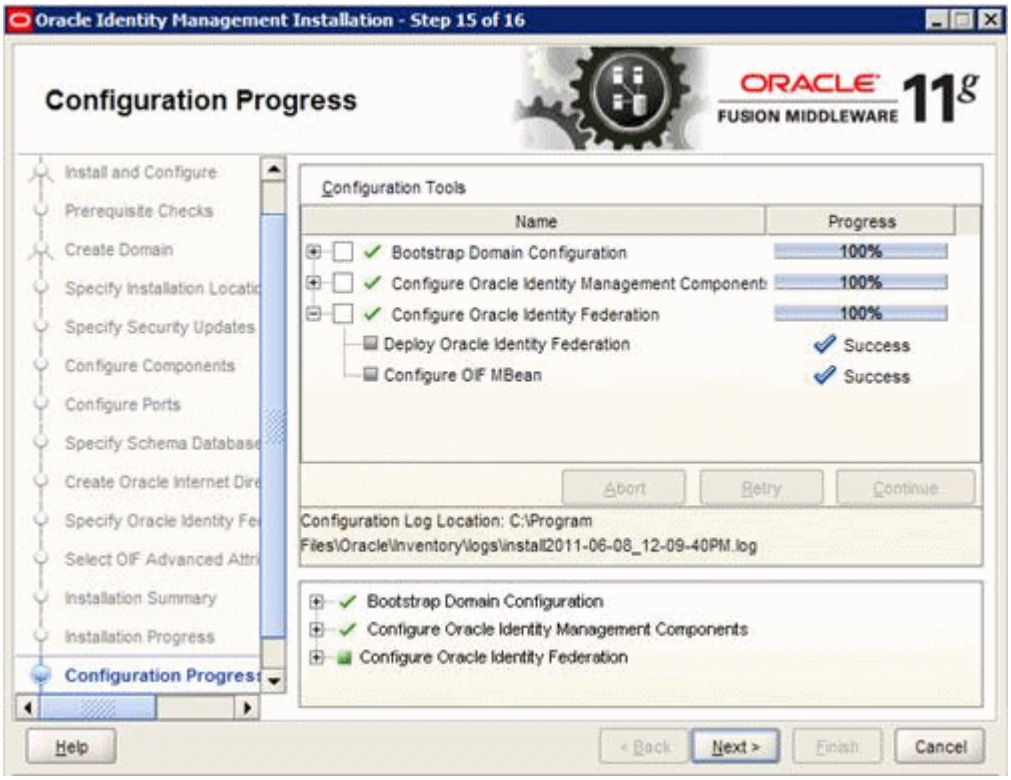
26. Click **Next**.
27. Review the Install Summary.



28. Click **Install**.
29. Click **Next** when the installation process is completed.



30. The Configuration Progress begins.

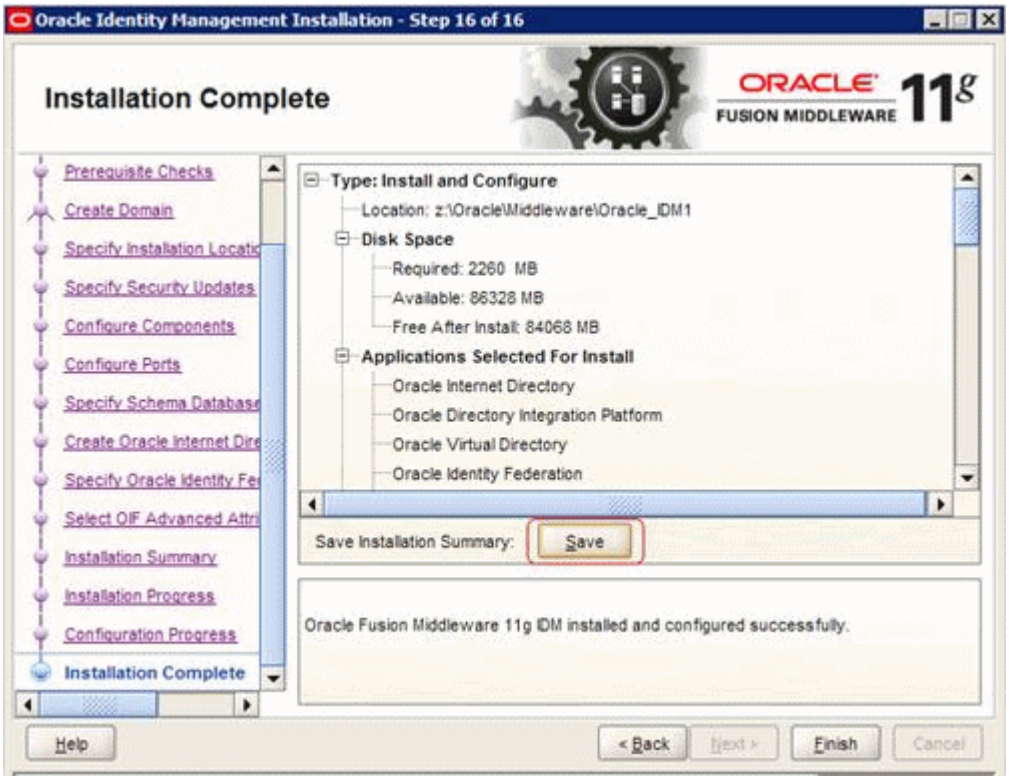


31. Click **Next**.

32. On Installation Complete, you can click **Save** to create an Installation Summary for future reference.

    Also ensure you have noted all of the passwords you entered during the installation.

33. Click **Finish**.

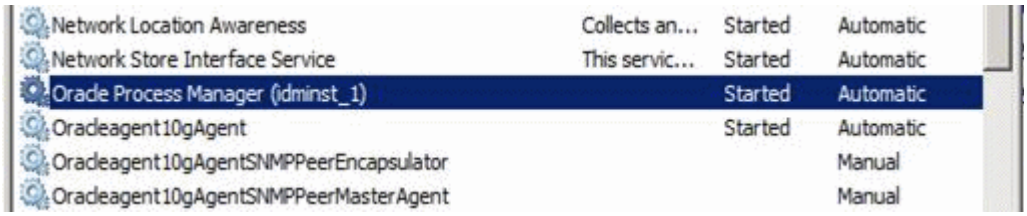


2.2.2 Upgrading to Oracle Internet Directory 11.1.1.5

After you successfully install Oracle Internet Directory version 11.1.1.2, run Patch to upgrade Oracle Internet Directory to version 11.1.1.5. Use these steps to upgrade OID 11.1.1.2.0. to OID 11.1.1.5.

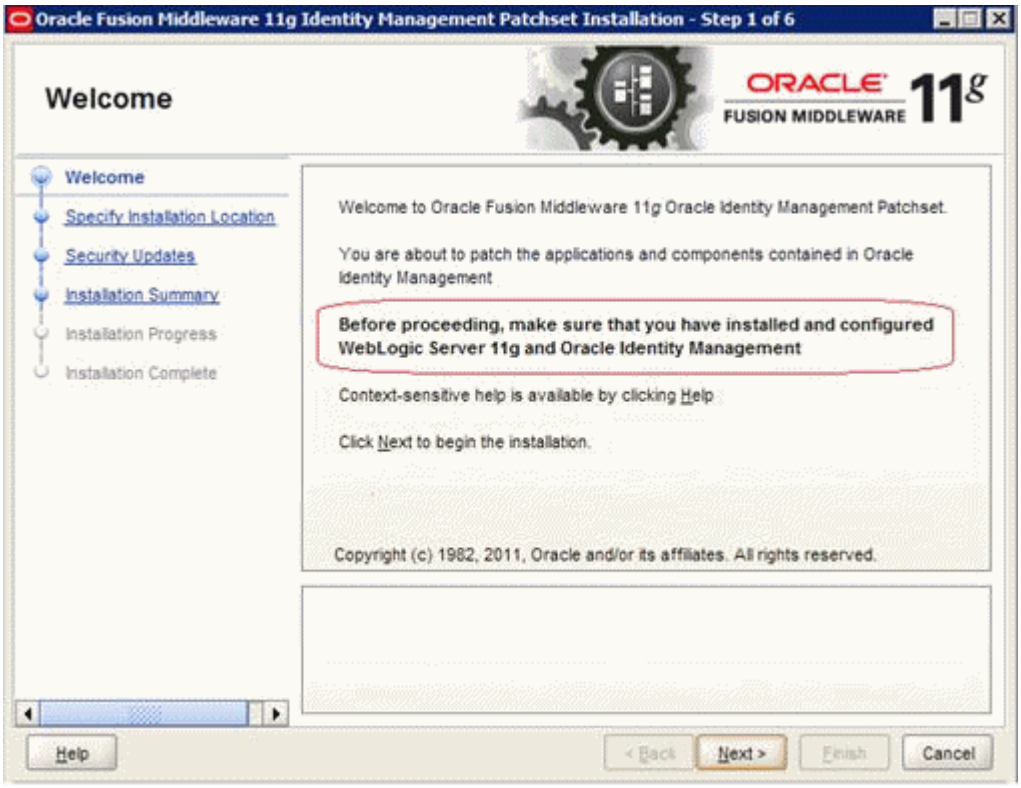
1. Stop the Oracle Process Manager using OPMN:
   - On Windows, open the Windows Services and stop the OID process.
   - On Unix/Linux, go to <MW_Home>/<oid_instance_name>/bin and enter this command:

     ./opmnctl stopall

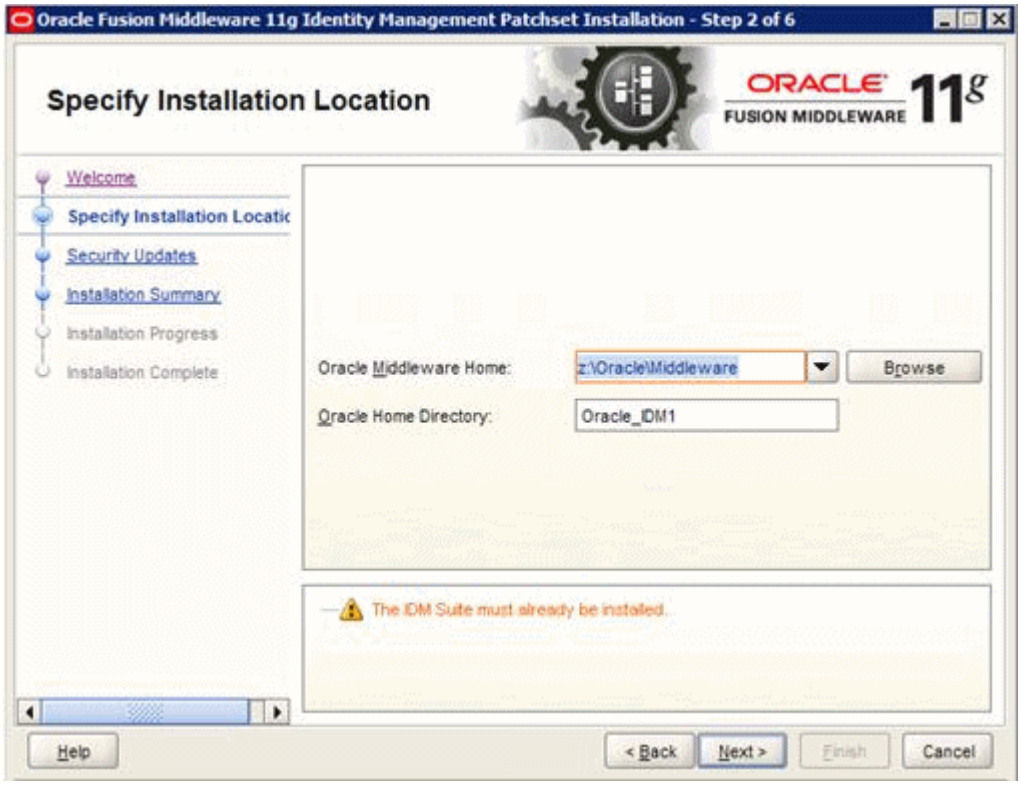


2. Download and unzip p12395123_oim_111150_<Platform>.zip.
3. Open the Oracle Internet Directory 11.1.1.5 directory.
4. Double click **setup.exe** (with Run as administrator) or runInstaller.

   This action starts the Oracle Universal Installer.
5. On Oracle Universal Installer Welcome, click **Next**.

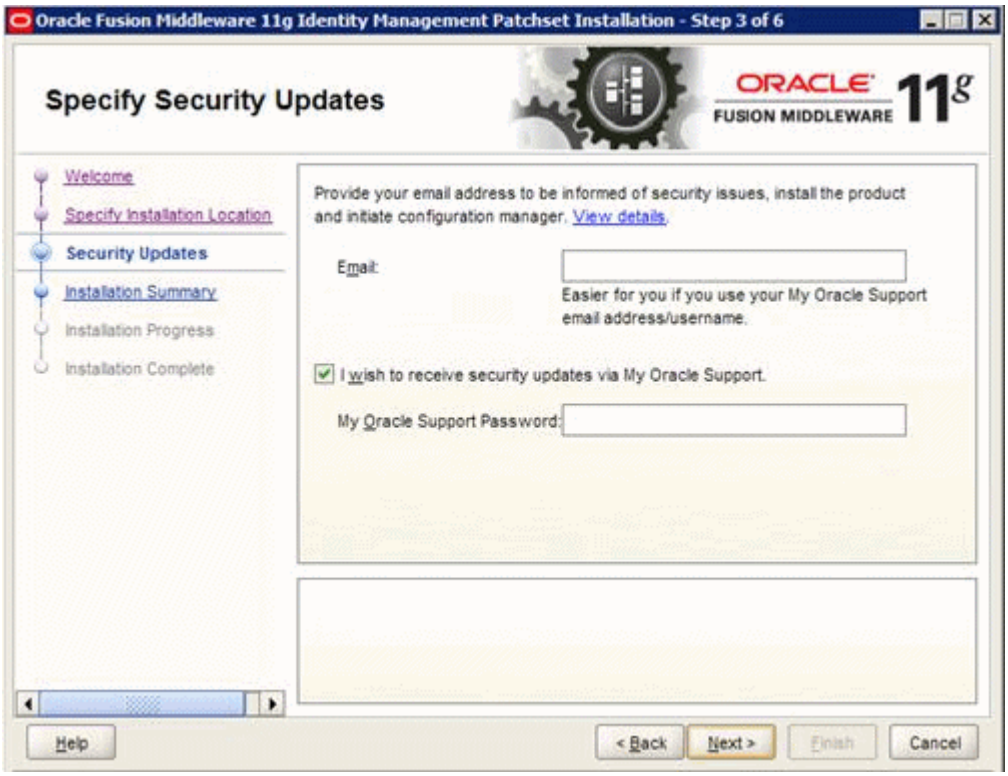


6. Specify the existing Middleware Home and Oracle Internet Directory Home.

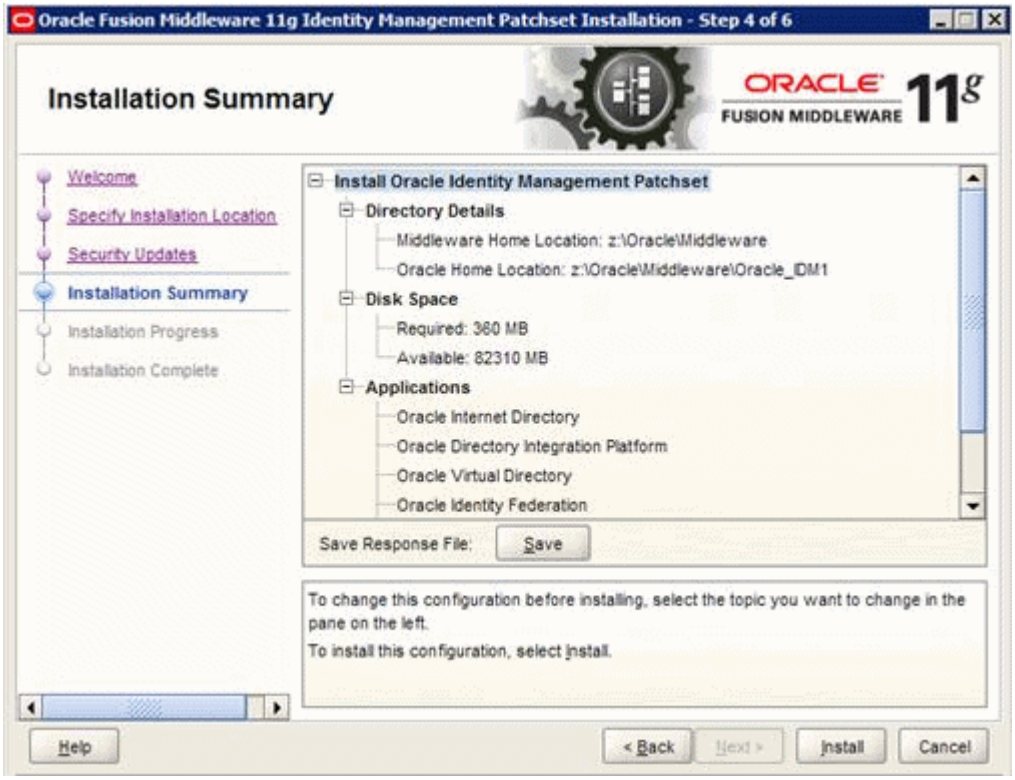


7. Click **Next.**

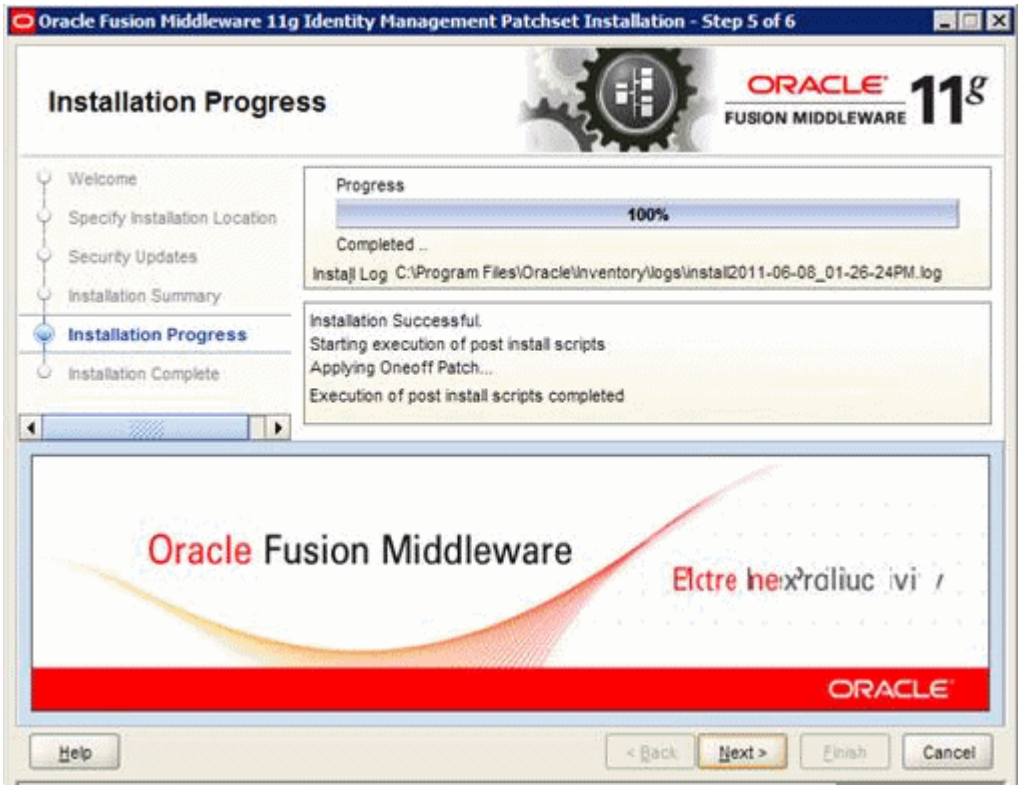
8. Specify the Security Updates information.



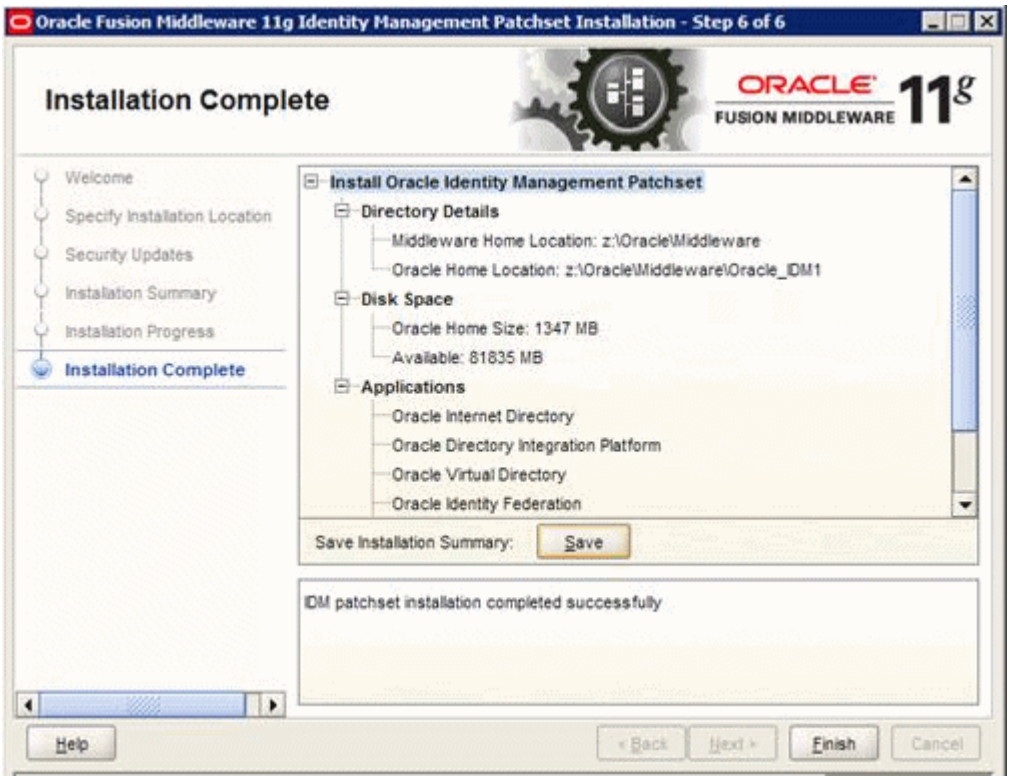
9. Click **Next.**
10. Review the Installation Summary.



11. Click **Install**.
12. Click **Next** when the Installation process is completed.



13. Review the install process or save the installation summary.



14. Click **Finish** to exit the installer.
15. Stop and restart the Oracle Process Manager using OPMN:
    - On Windows, open the Windows Services and stop and restart the OID process.
    - On Unix/Linux, go to <MW_Home>/<oid_instance_name>/bin and enter these commands:

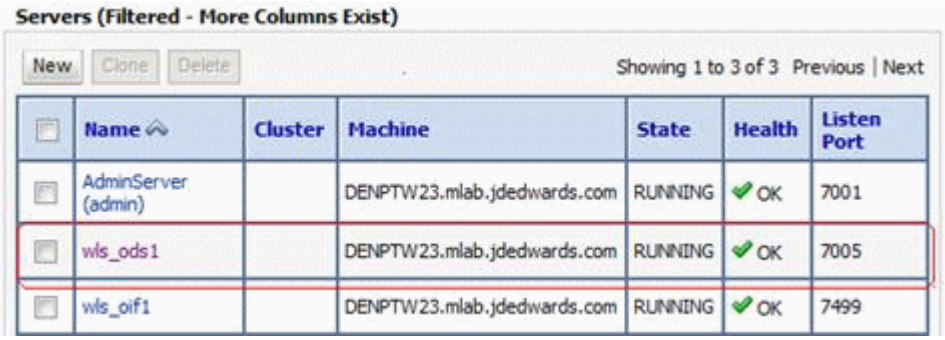
      ./opmnctl stopall

      ./opmnctl startall

2.2.3 Verifying Oracle Internet Directory Installation

After you upgrade Oracle Internet Directory to 11.1.1.5, use these steps to verify the installation.

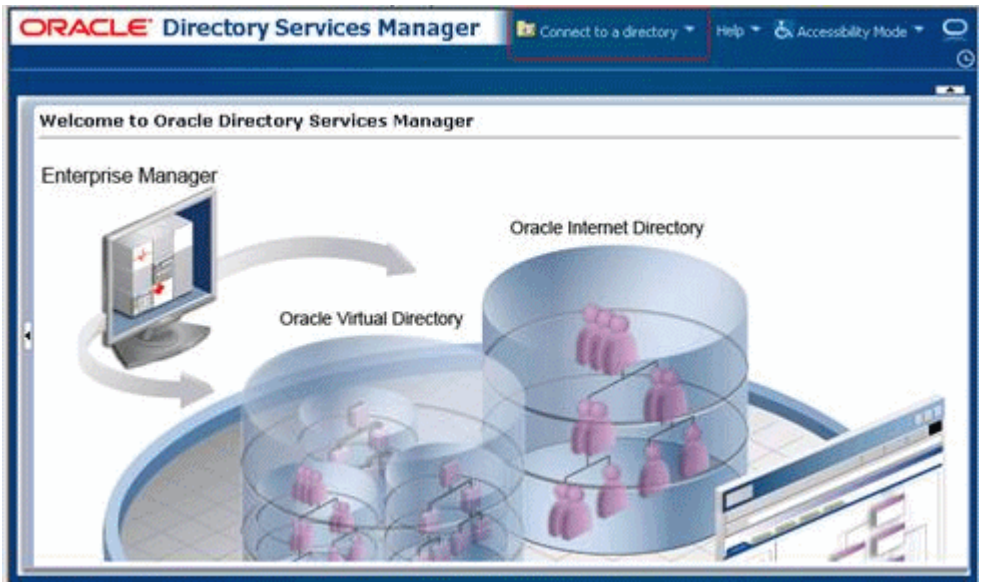
1. Verify the Oracle Directory Server Manager (ODSM) is active:
    a. Open the WebLogic Administration Console.
    b. Navigate to Servers.
    c. Verify *wls_ods1* is in a running status.



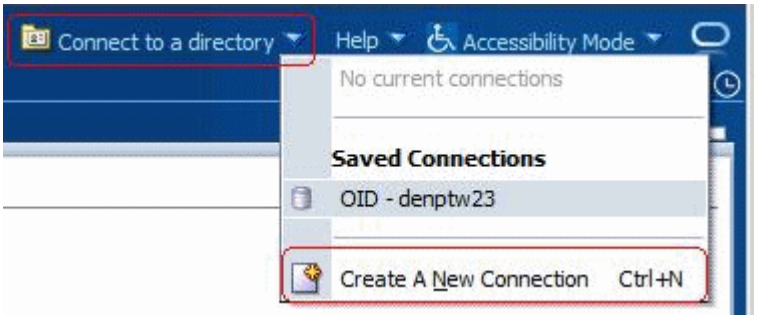
2. Open an Internet Browser and enter the ODSM URL:

   `http://server:port/odsm`
   For example:

   `http://denptw23.mlab.jdedwards.com:7005/odsm`



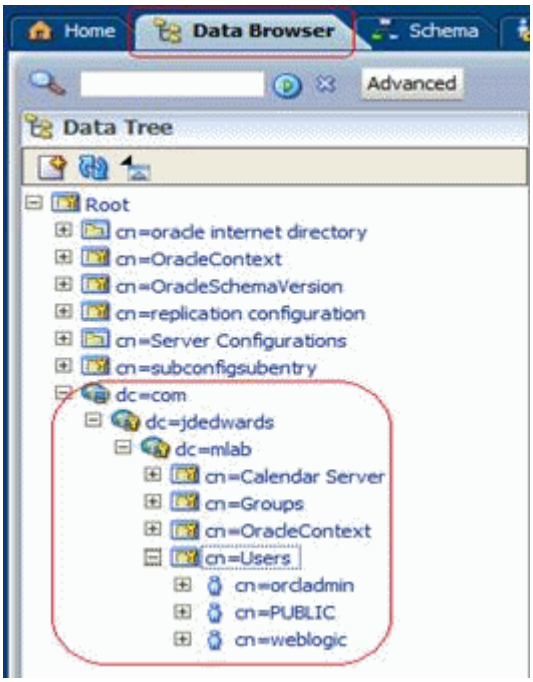
3. Click **Connect to a directory** to create a new connection.
4. Click **Create A New Connection**.



5. Enter the Admin user and password.

6. The Oracle Directory Server Manager appears.

7. Select the **Data Browser** tab to view user information.

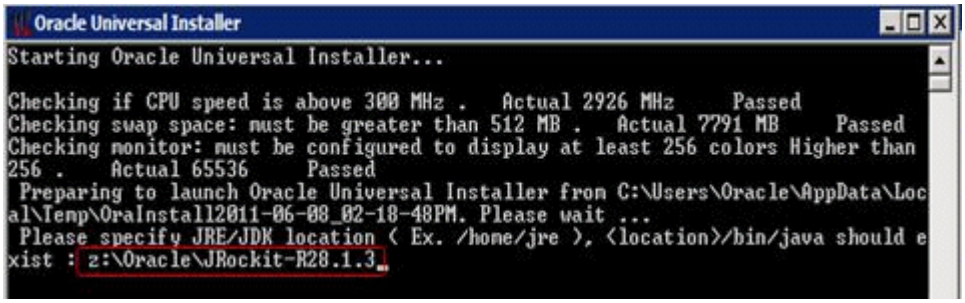


8. Upon successful installation verification, close Directory Manager.

2.3 Installing Oracle Access Manager 11g

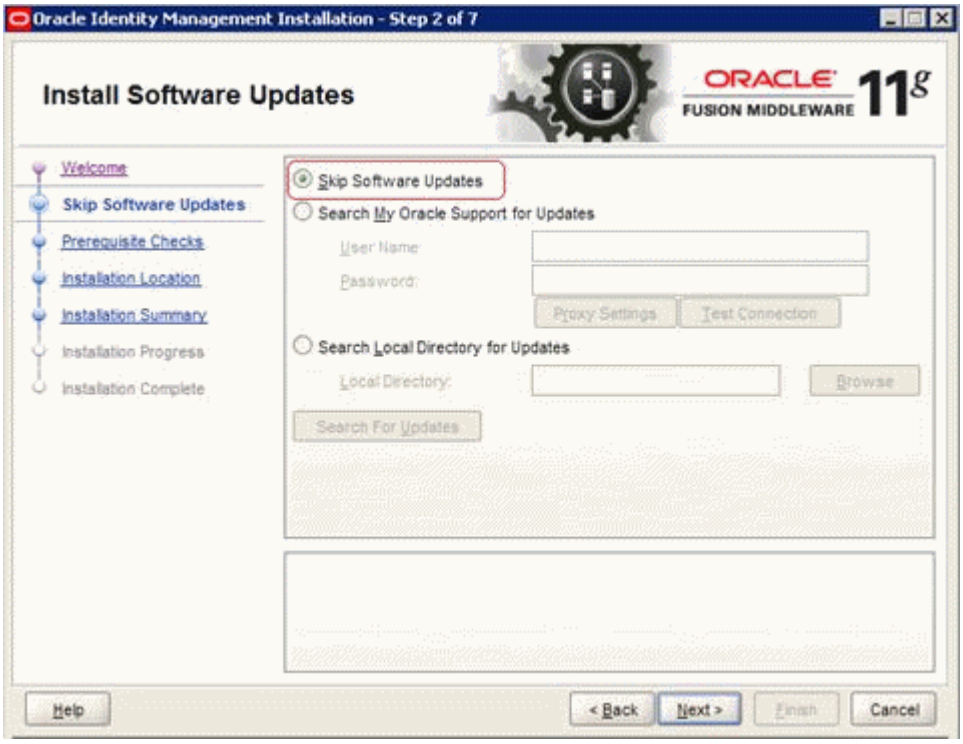
Use these steps to install the Oracle Access Manager (OAM) 11.1.1.5.

1. Download and unzip **ofm_iam_generic_11.1.1.5.0.zip** file.
2. Change directory to Disk 1.
3. Execute this command:
   - On Windows, run *setup.exe* with the **Run as Administrator** option.
   - On UNIX/Linux, run *runInstaller*.
4. Enter the JRE/JDK location.

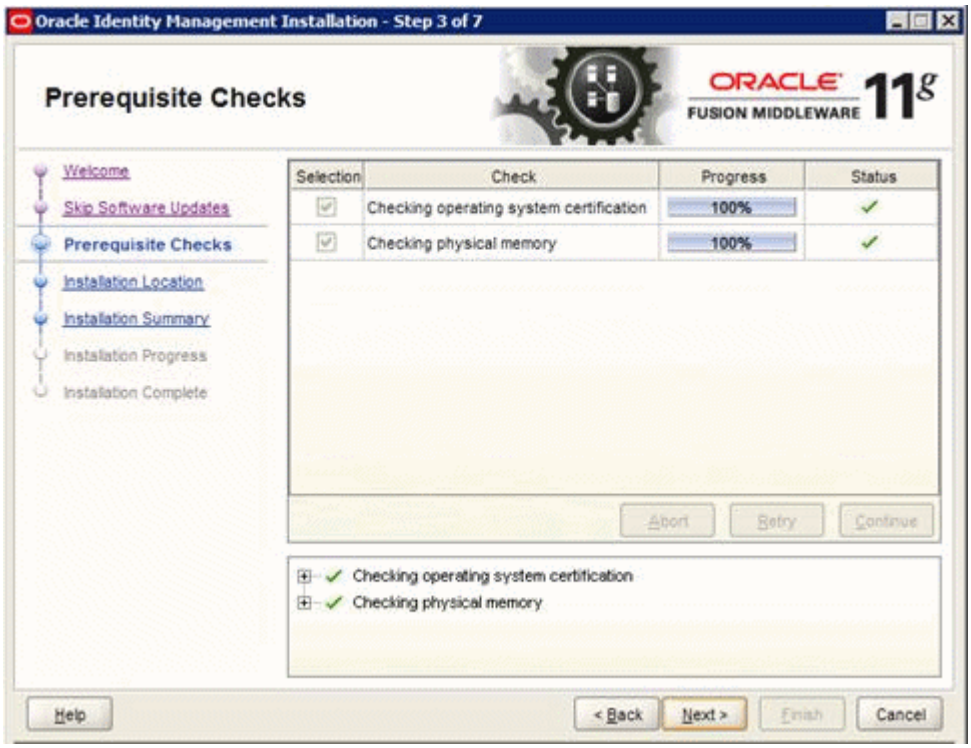


5. On the Welcome page, click **Next**.

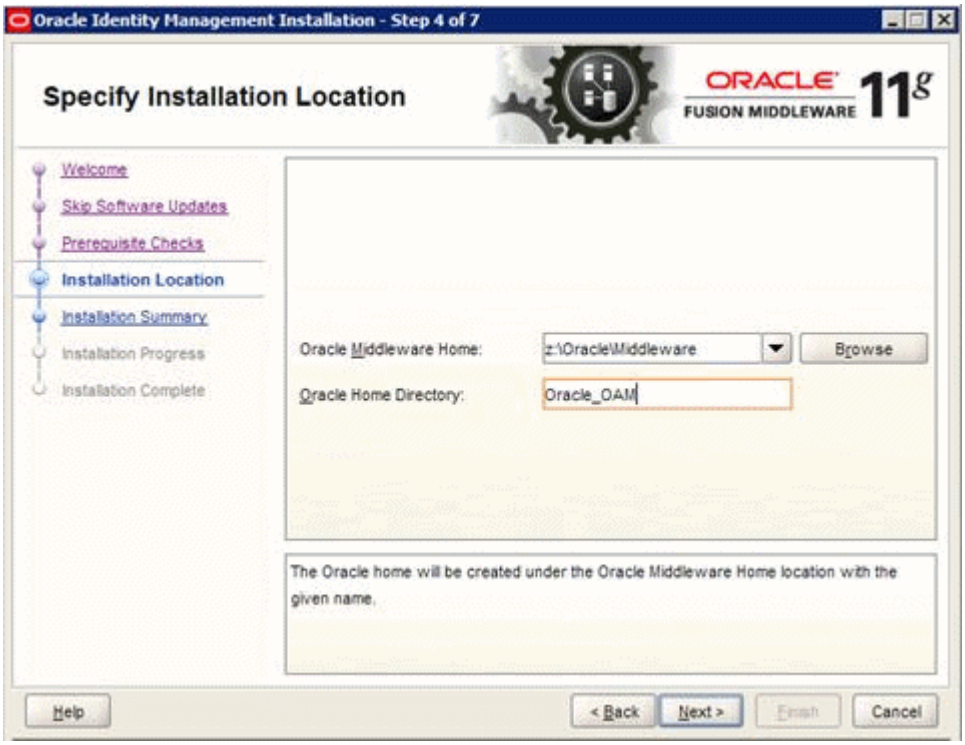
6. Select **Skip Software Updates** option.



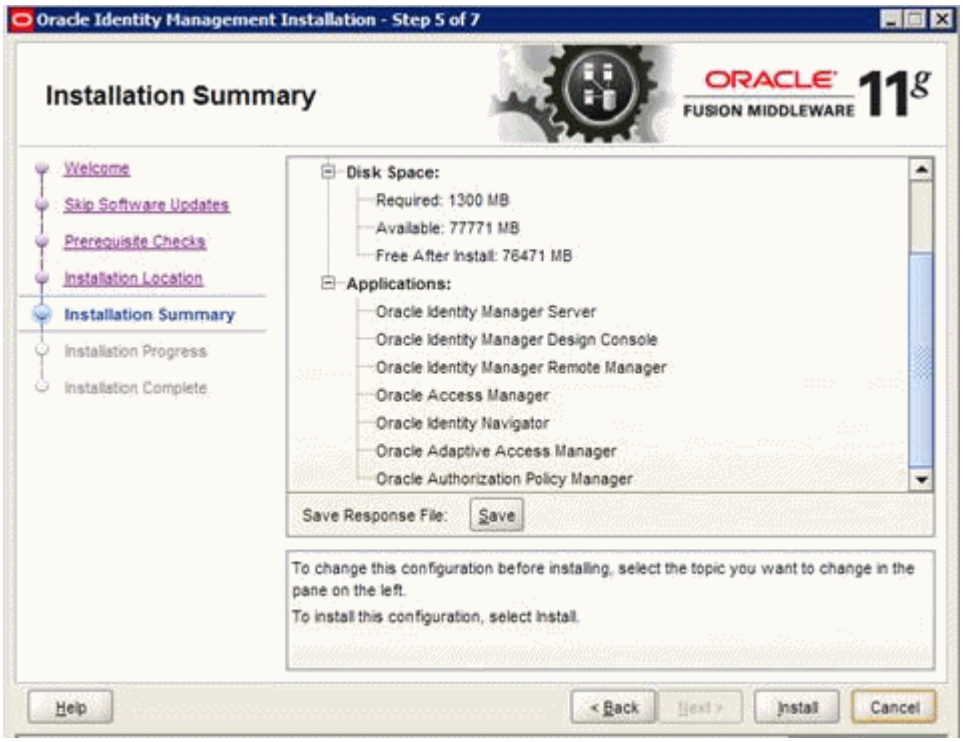
7. Click **Next**.
8. The install performs Prerequisite Checks.



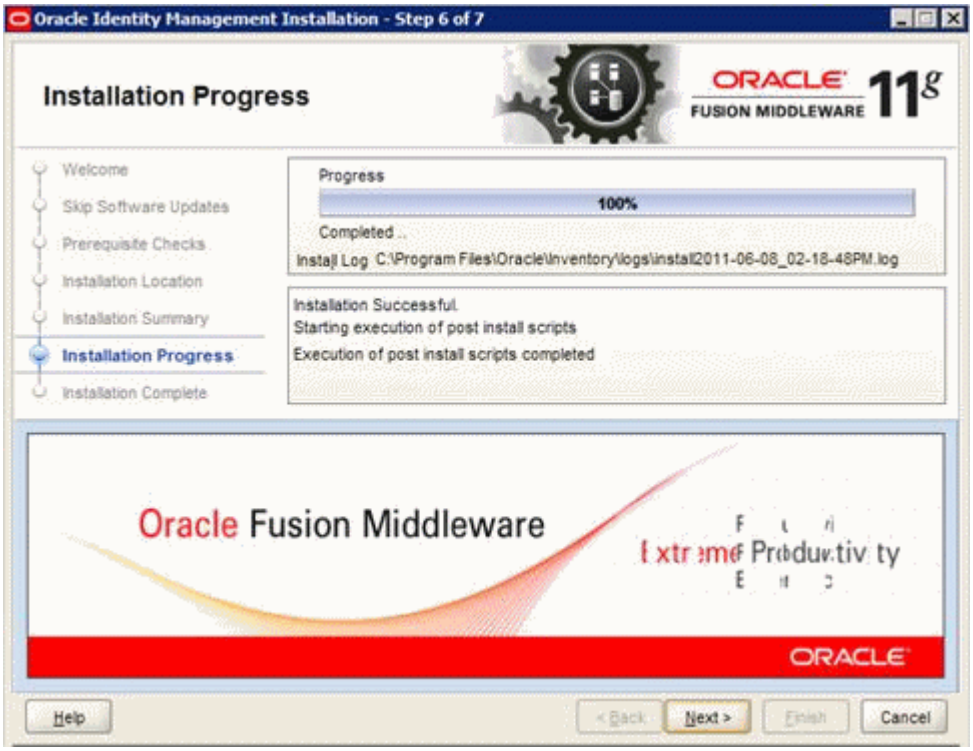
9. Specify the Oracle Middleware Home and the Oracle Access Directory Home. The default home is Oracle_OAM.



10. Click **Next**.
11. Review the Installation Summary.

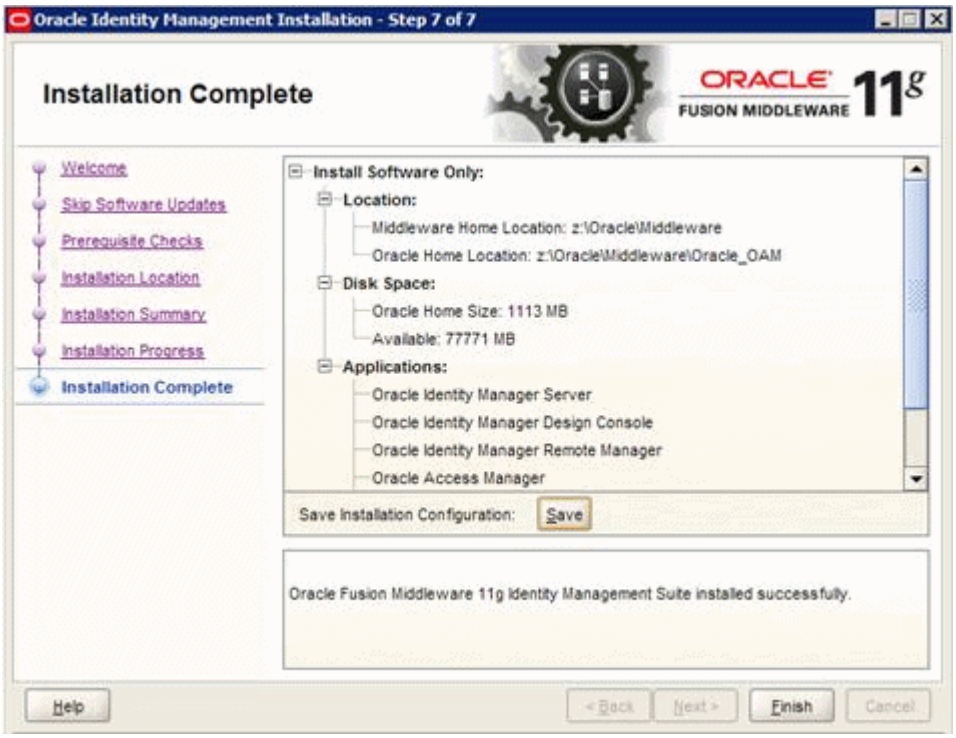


12. Click **Install.**
13. Wait for the installation process to complete.

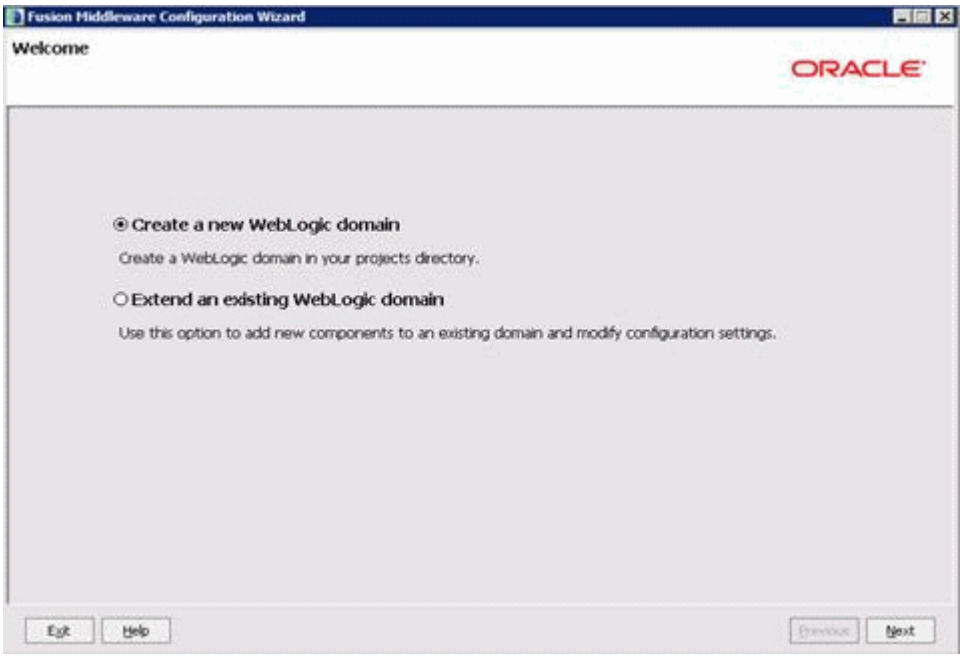


14. Click **Next**.

15. Review the installation location.

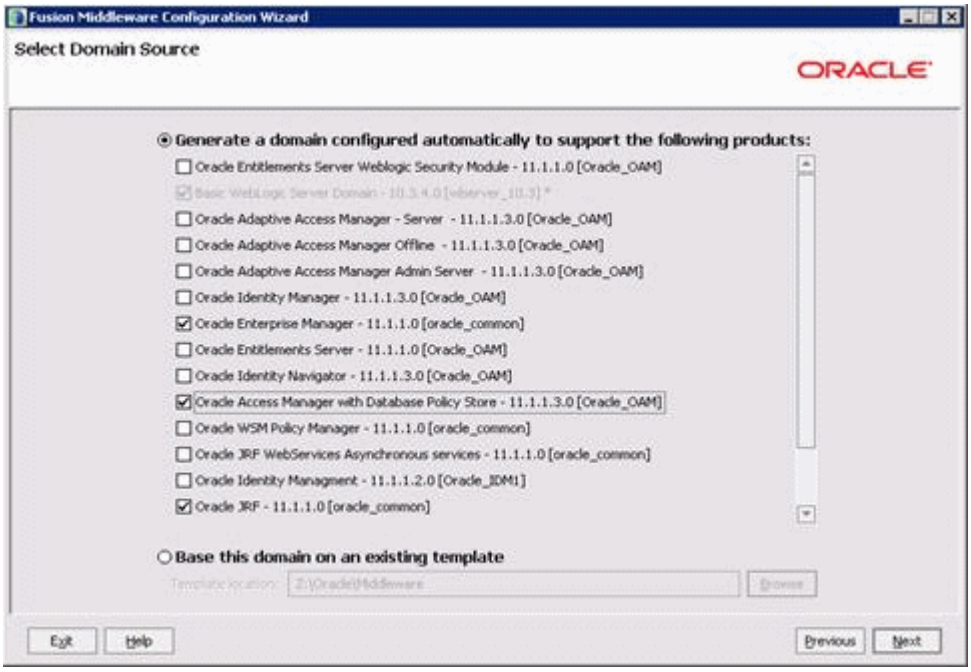


16. Click **Finish** to exit the installer.
17. Run the domain configure from <MW_Home>/Oracle_OAM/common/bin
    - On Windows = config.cmd
    - On UNIX = config.sh
18. The Fusion Middleware Configuration Wizard screen appears.
19. Select **Create a new WebLogic domain** option.

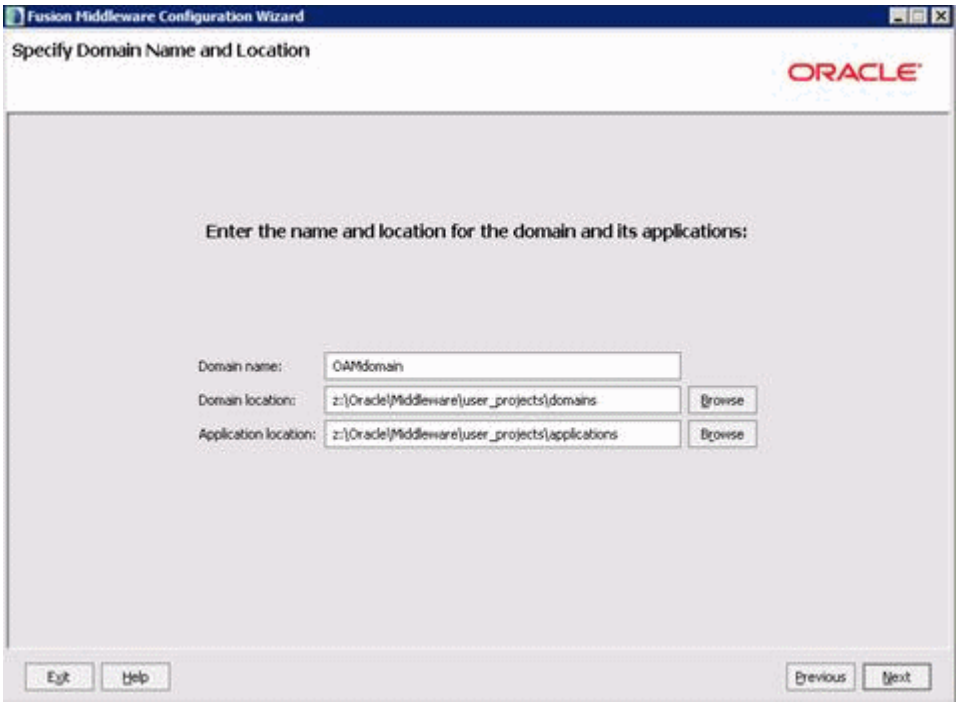


20. Click **Next**.
21. Select the components to configure.

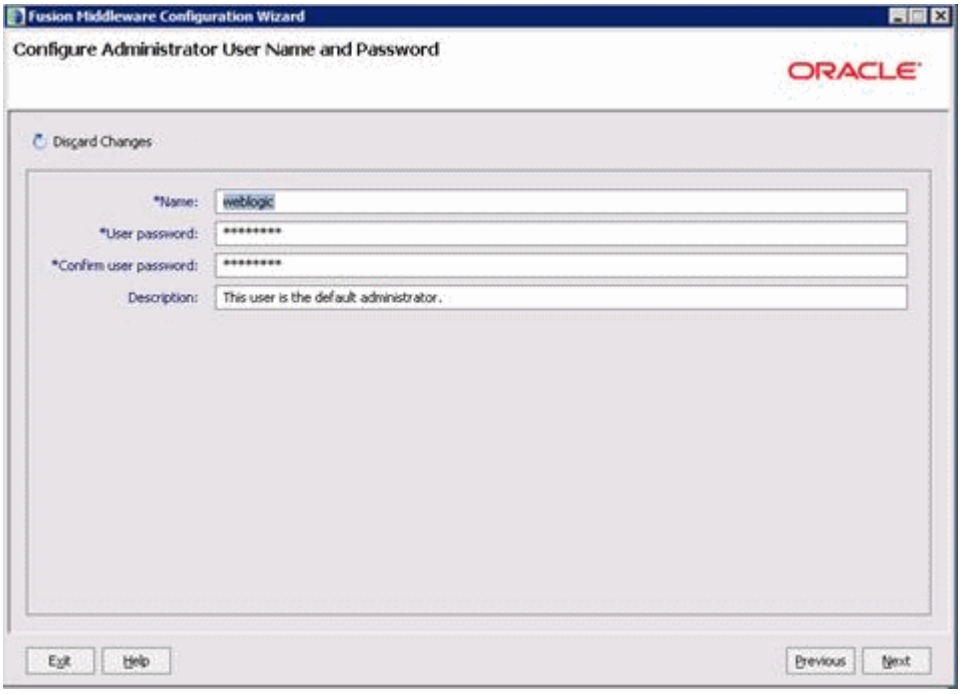
    For OAM Server, you need Oracle Access Manager with Database Policy Store and Oracle Enterprise Manager. Oracle JRF - 11.1.1.0 is selected by default.



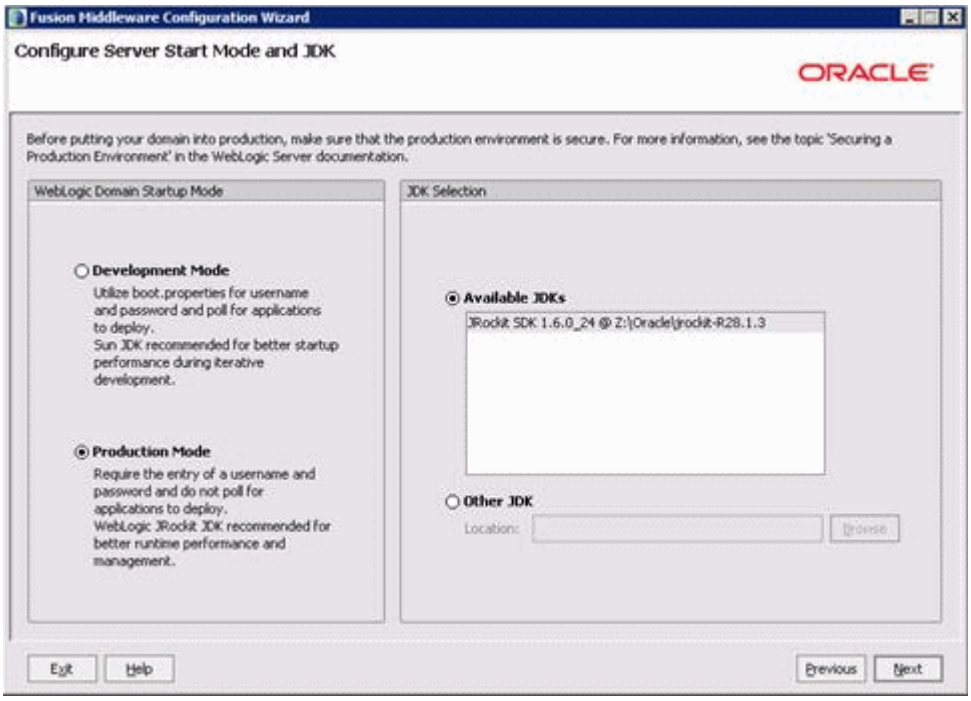
22. Click **Next**.
23. Enter a domain name and accept the default locations.



24. Click **Next**.
25. Enter the Administrator User Name and Password.

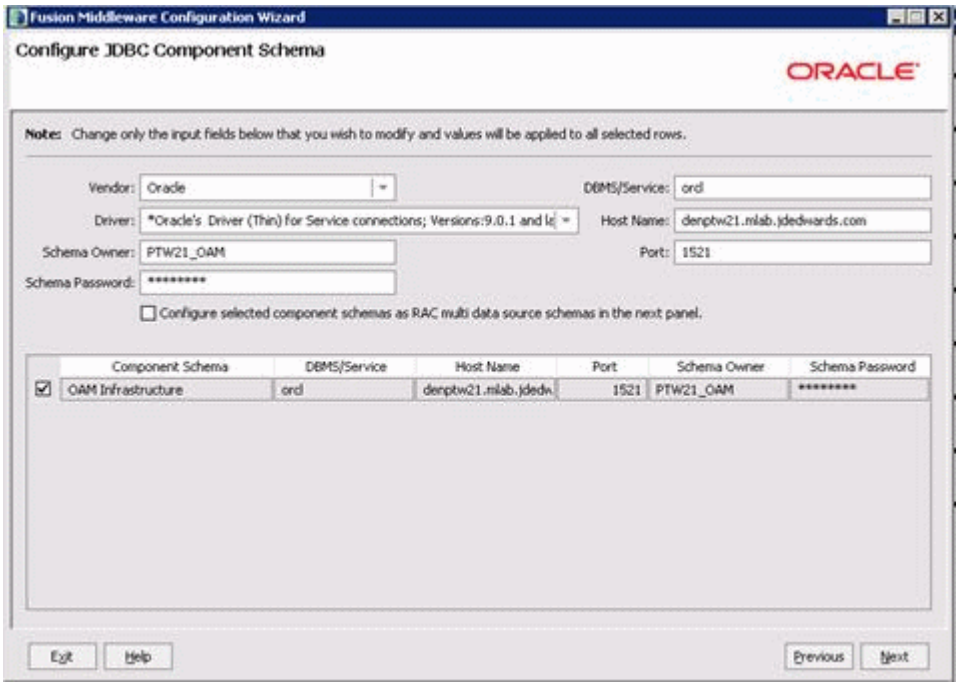


26. Click **Next**.
27. Select **Production Mode** and verify the JDK version and location.

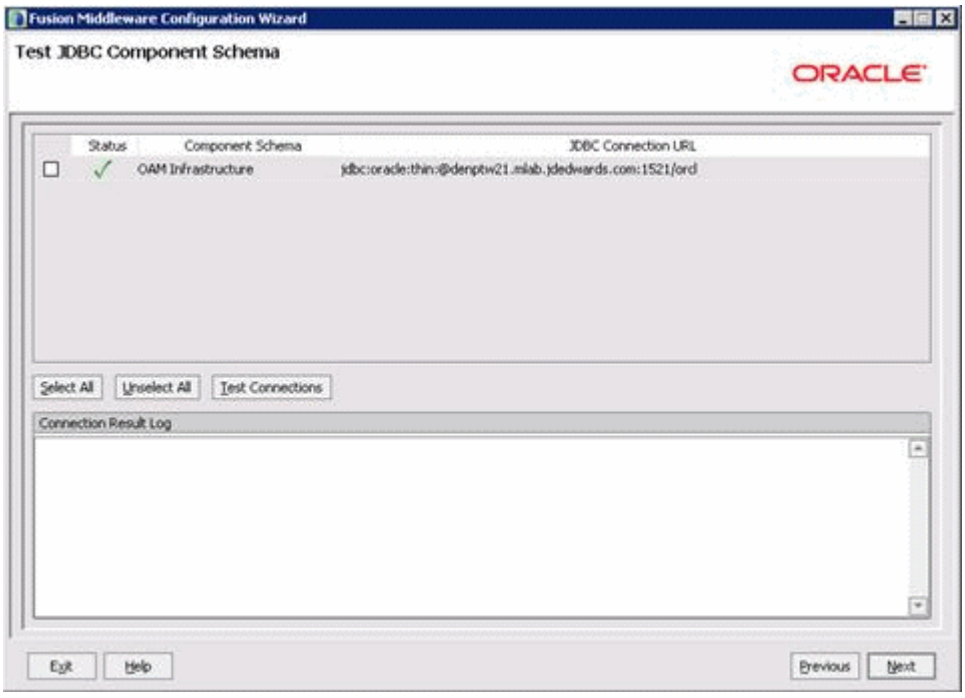


28. Click **Next**.
29. Enter the JDBC Component Schema, complete these fields:
    - DBMS/Service
    - Host Name and Port
    - Schema Password
    - Schema Owner

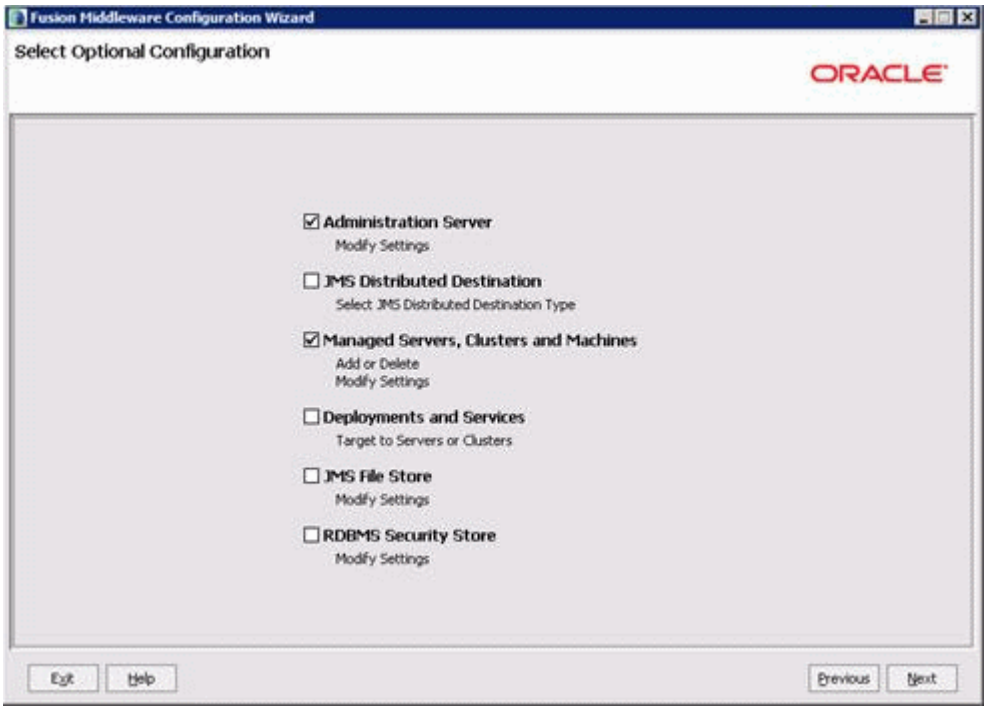
    If you are not using the default schema prefix (Dev), you must select each schema component individually and modify the prefix only.



30. Click **Next**.
31. The installer verifies all of the component schema connections.



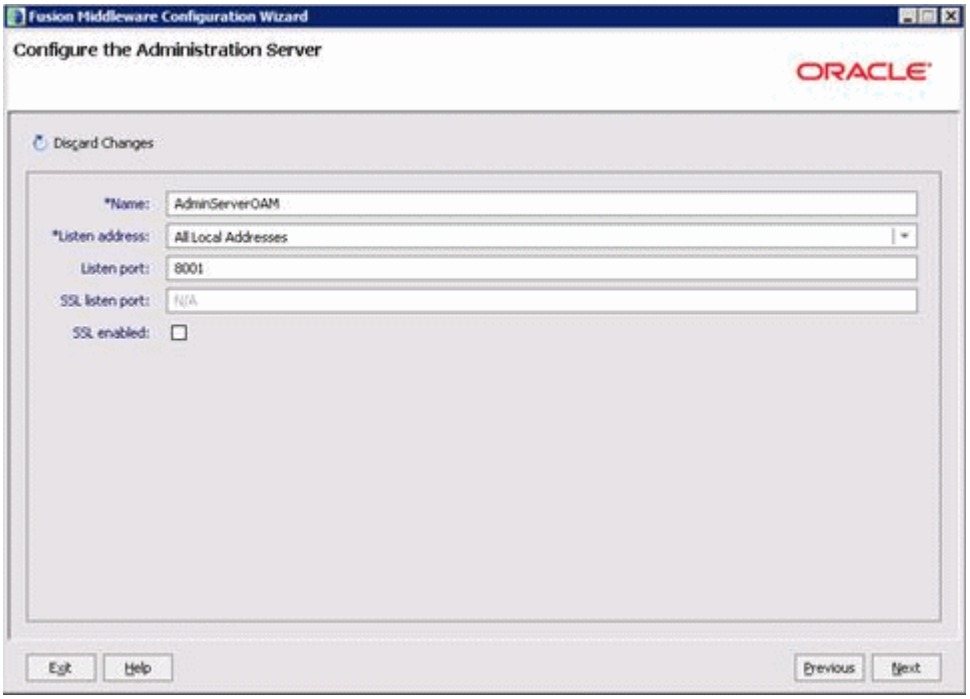
32. Click **Next**.
33. Select **Administration Server** and **Managed Servers, Clusters and Machines** options.



34. Click **Next**.

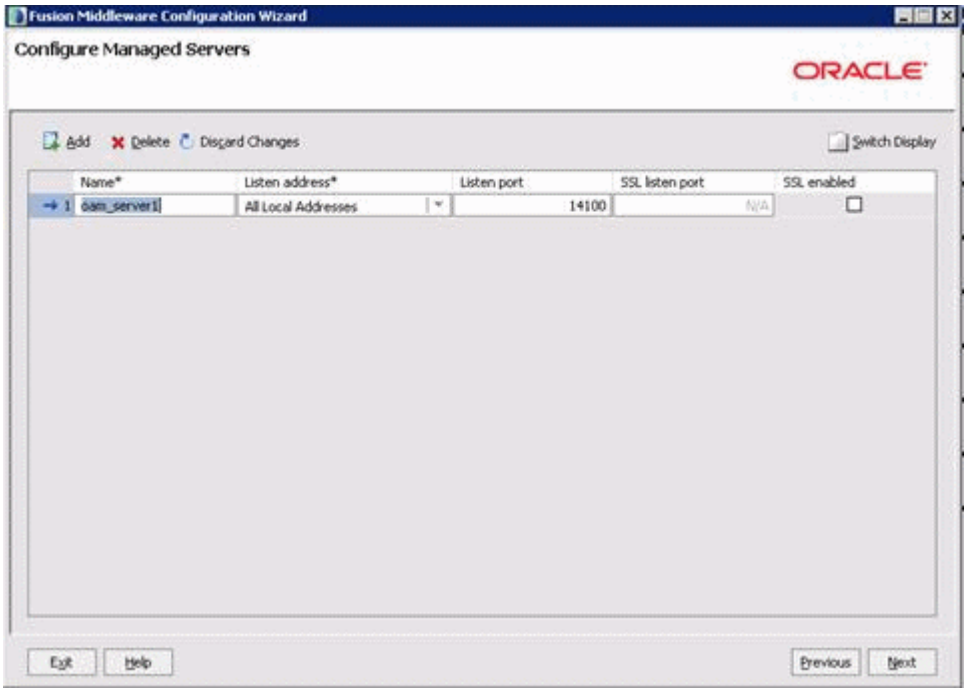
35. Enter the Administration Server Name; for example, AdminServerOAM

    Do not accept the default listen port (7001) if you have Oracle Internet Directory Server already installed because it might have used the default port. Enter a unique listen port for this OAM server. For example, port 8001.



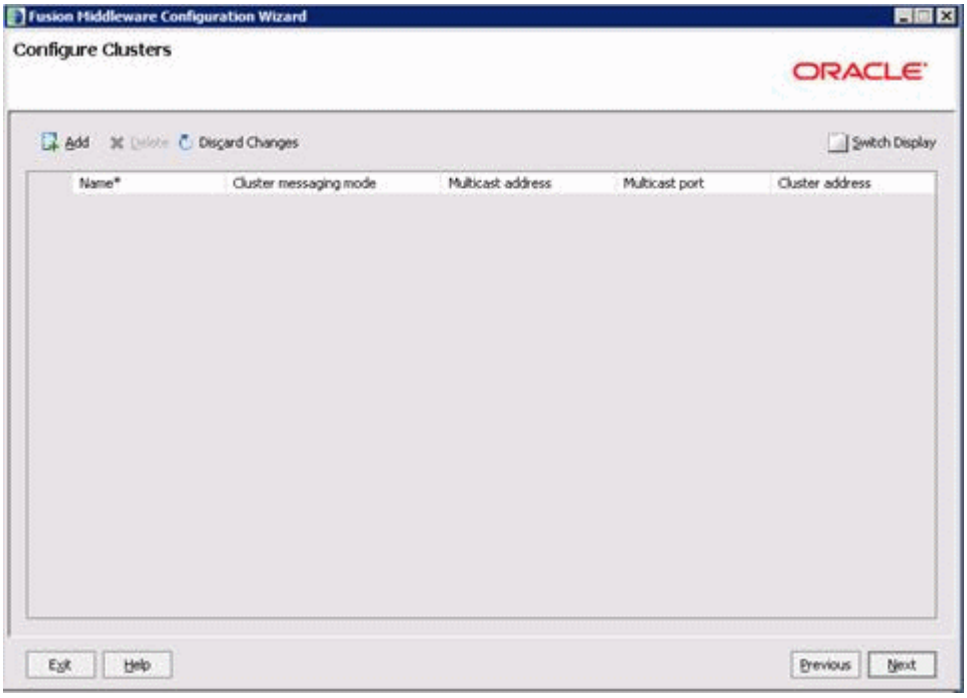
36. Click **Next**.

37. Accept the default values on the Configure Managed Servers page.



38. Click **Next**.

39. The Configure Clusters page appears.



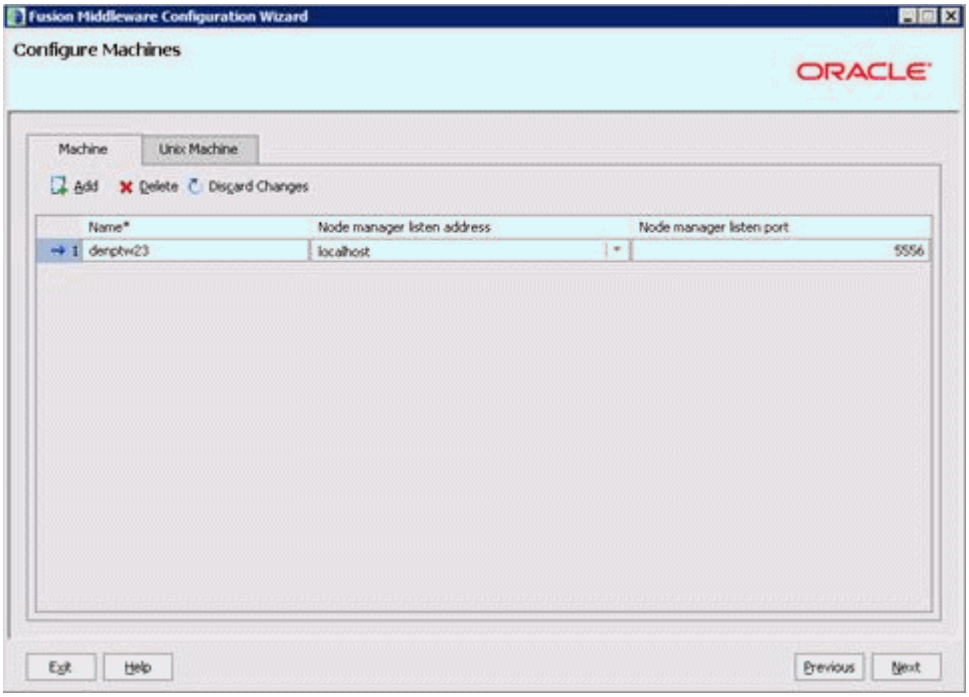
40. Click **Next**.

41. Select the Machine Type:

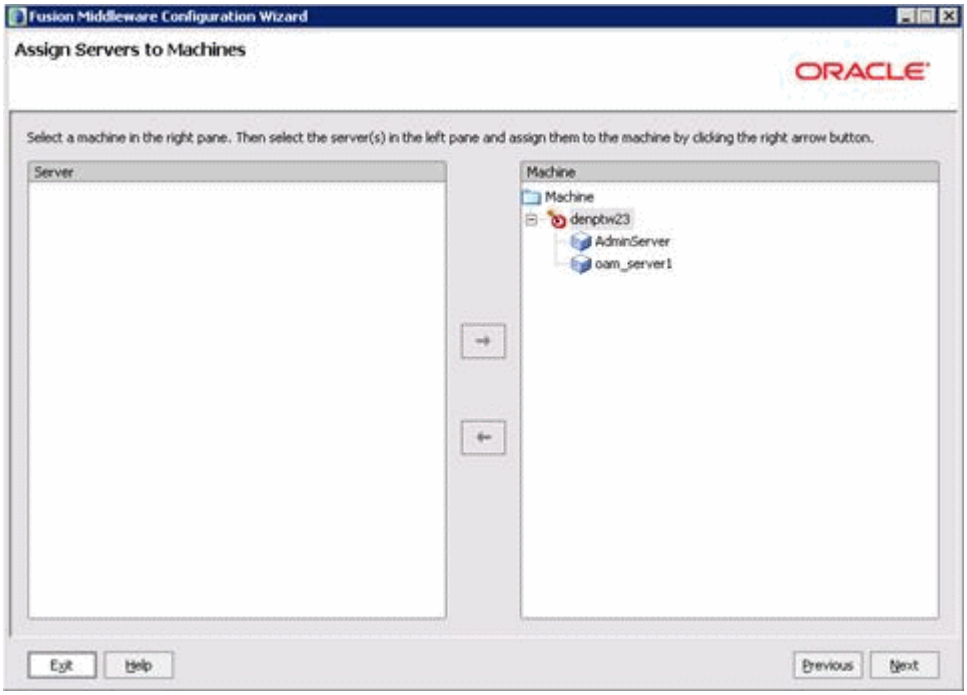
    - On Windows select the **Machine** tab.

- On UNIX and Linux, select the **UNIX Machine** tab.

42. Select the **Add** tab.
43. Enter a logical machine name.

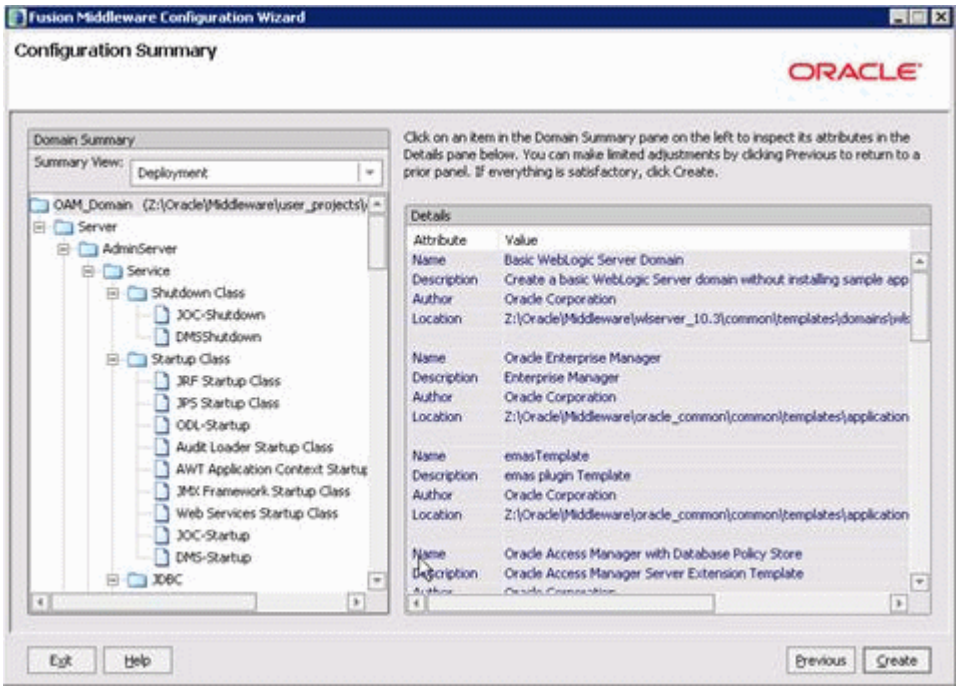


44. Click **Next**.
45. Assign the servers to this logical machine.



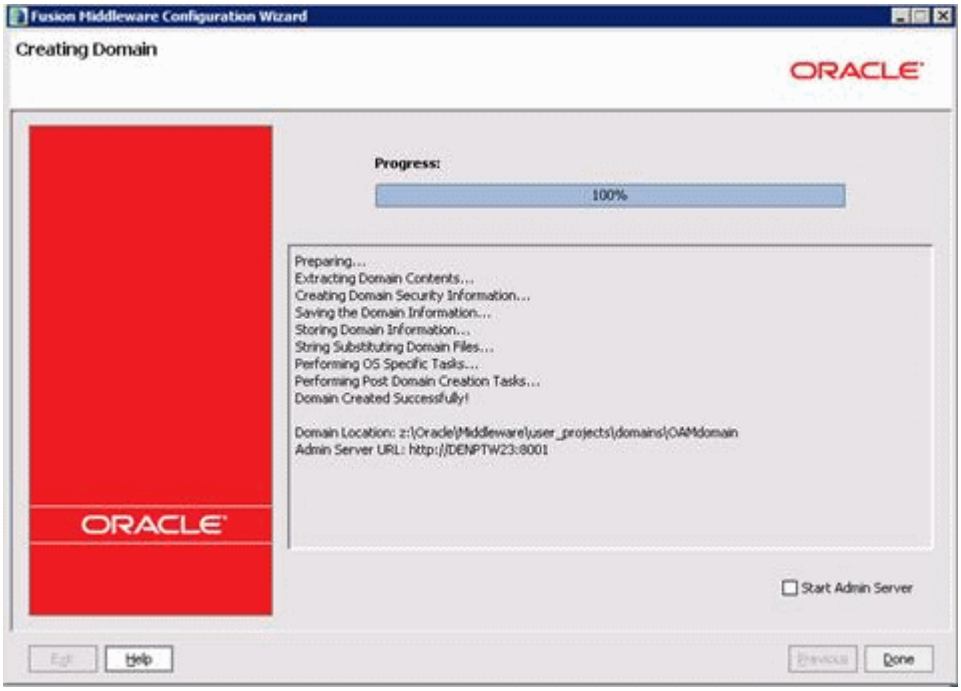
46. Click **Next**.

47. Review the Configuration Summary.



48. Click **Create**.

49. Click **Done** once the domain creation is completed.



50. Start the Admin Server:

- On Windows, open a command window, change the directory to <MW_Home>\user_projects\domains\OAMdomain\bin

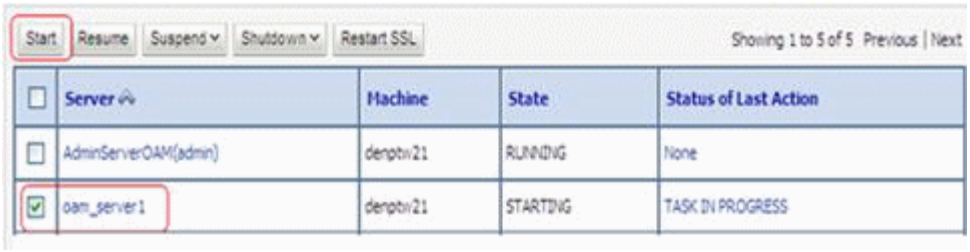
Run startWebLogic.cmd

- On UNIX, run *startWebLogic.sh* from <MW_Home>/user_projects/domains/OAMdomain/bin

51. Connect to the OAM Domain Administration console

    `http://full-qualified-oamserver:domain-port/console`

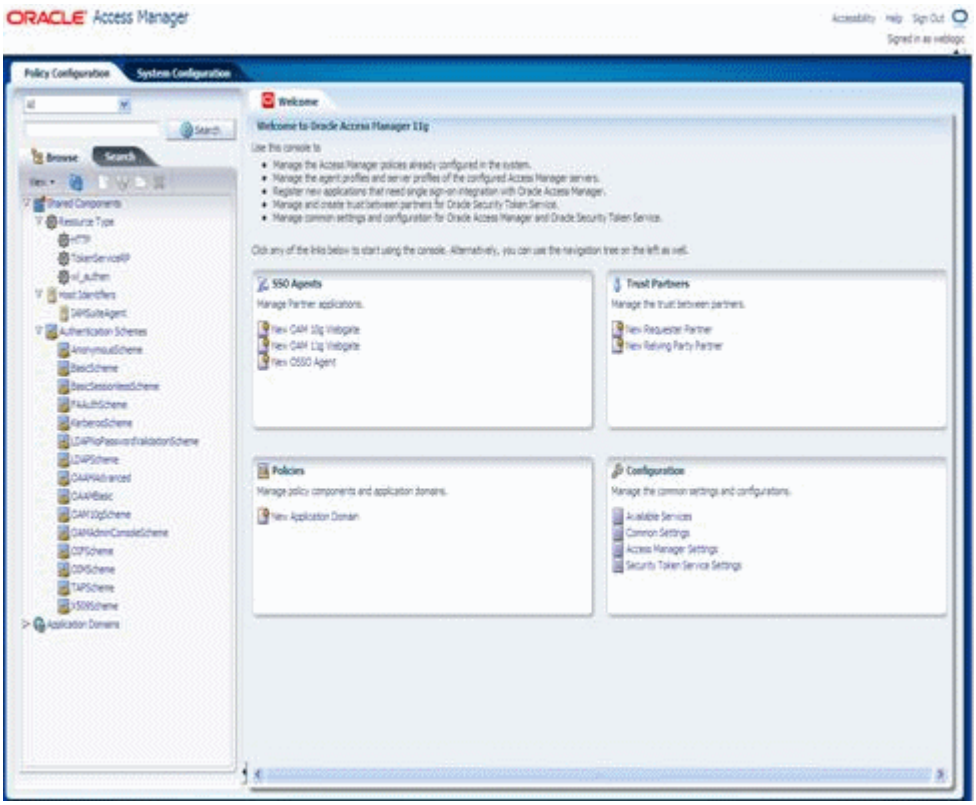
52. Select the Servers and start the oam_server1 managed server.



53. Verify the OAM installation by opening the OAM Admin Console

    `http://full-qualified-oamserver:oamport/oamconsole`

> **Note:** The oamport is the same as the WebLogic Console port.



2.4 Configuring Oracle Access Manager to Use the External LDAP Server

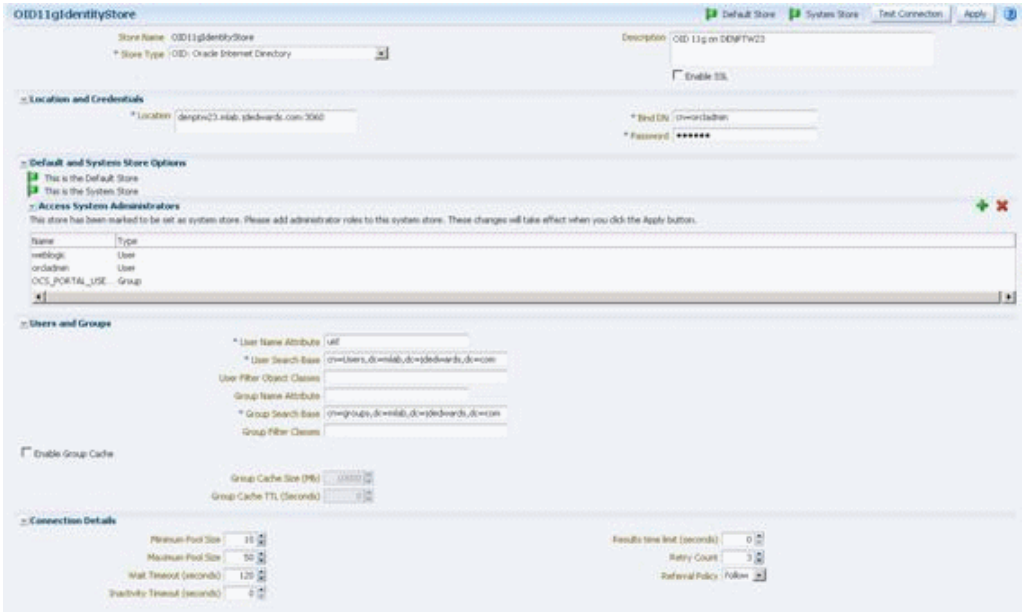
Oracle Access Manager 11g by default uses the Oracle WebLogic embedded LDAP Server. You must create a custom User Identity Store to use the external LDAP Server.

1. Log on to the OAM Administration Console.
2. Select the Data Sources from the System Configuration tab.
3. Open the **UsereIdentityStore1** from User Identity Stores.

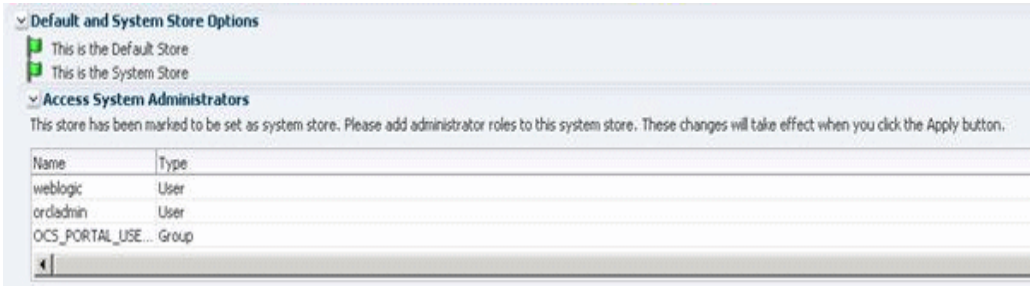
   This is the default embedded LDAP server.

4. To create a new user identity store, focus on **User Identity Stores** and click the **Create** button.

5. Enter your LDAP information, and then click **Test Connection**.



6. Set this newly created store to the Default and System Store.



Also you might want to add the additional system administrators.

7. Restart the OAM Server.

3

Oracle WebCenter Spaces

This chapter contains these topics:

3.1 Understanding WebCenter Server

The WebCenter server ensures the SSO credentials are valid without the user logging in again.

Prerequisites

- Install WebCenter Database Schemas (*See Appendix A*)
- Install WebLogic Server (*See Appendix B*)

Important: The WebCenter database schemas must be created, and the WebLogic Server must be installed before you install Oracle WebCenter Spaces.

3.2 Installing Oracle WebCenter Spaces

You install Oracle WebCenter Spaces 11.1.1.5.0.

When you install the WebCenter components on your machine, be sure to enter the correct data (machine name, ports, and so on) for your configuration. When you download the software from Oracle Technology Network (OTN) note the directories to which you downloaded the software and replace the directory location specified in this chapter with your directory locations. Be sure to install the executable files for your platform.

Use these steps to install Oracle WebCenter spaces 11.1.1.5.0.

1. Download and unzip the WebCenter installation file:

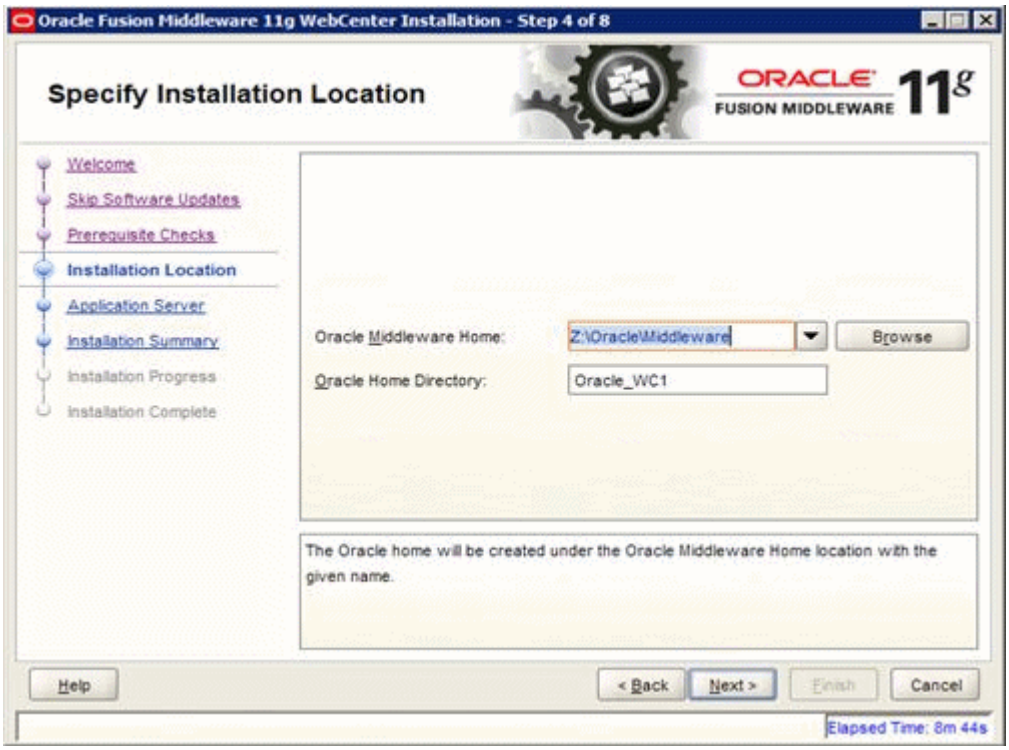
   ofm_wc_generic_11.1.1.5.0_disk1_1of1.zip

2. Execute the install process from Disk1 folder:

   - On Windows: *setup.exe* with **Run as administrator** option

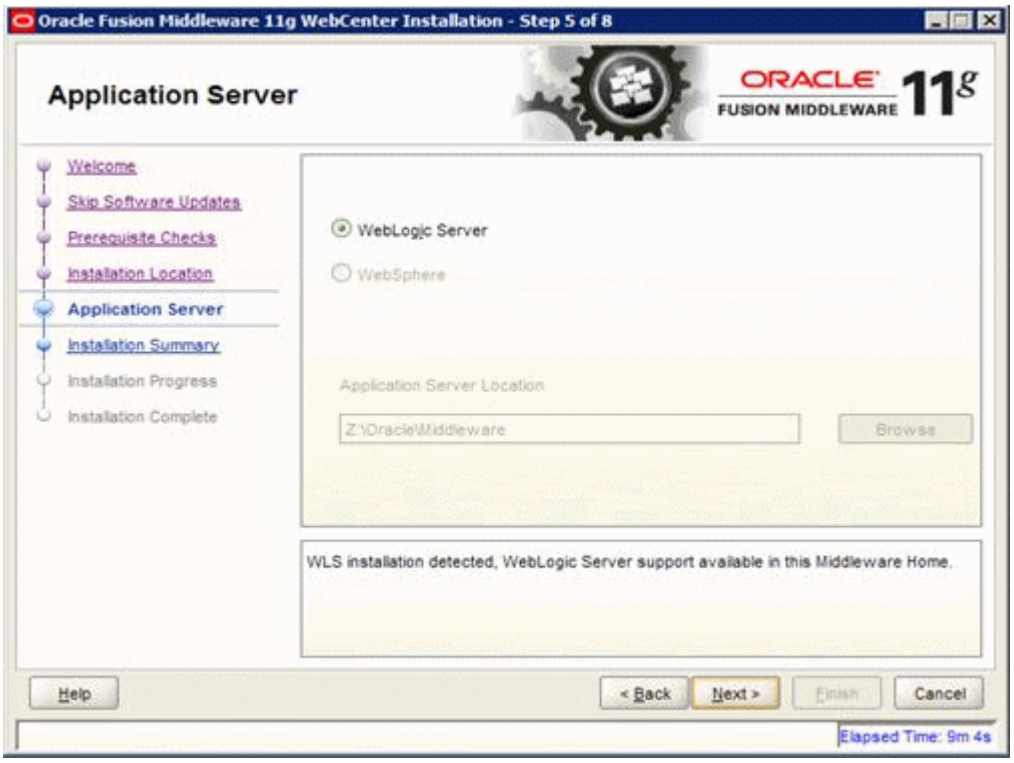
- On UNIX: *./runInstaller* as a non-root user

3. Review the Welcome page information, and then click **Next**.
4. Select your **Software Updates** option.
5. The installer performs prerequisite checks.
6. Enter a Middleware Home and a WebCenter Home Directory.



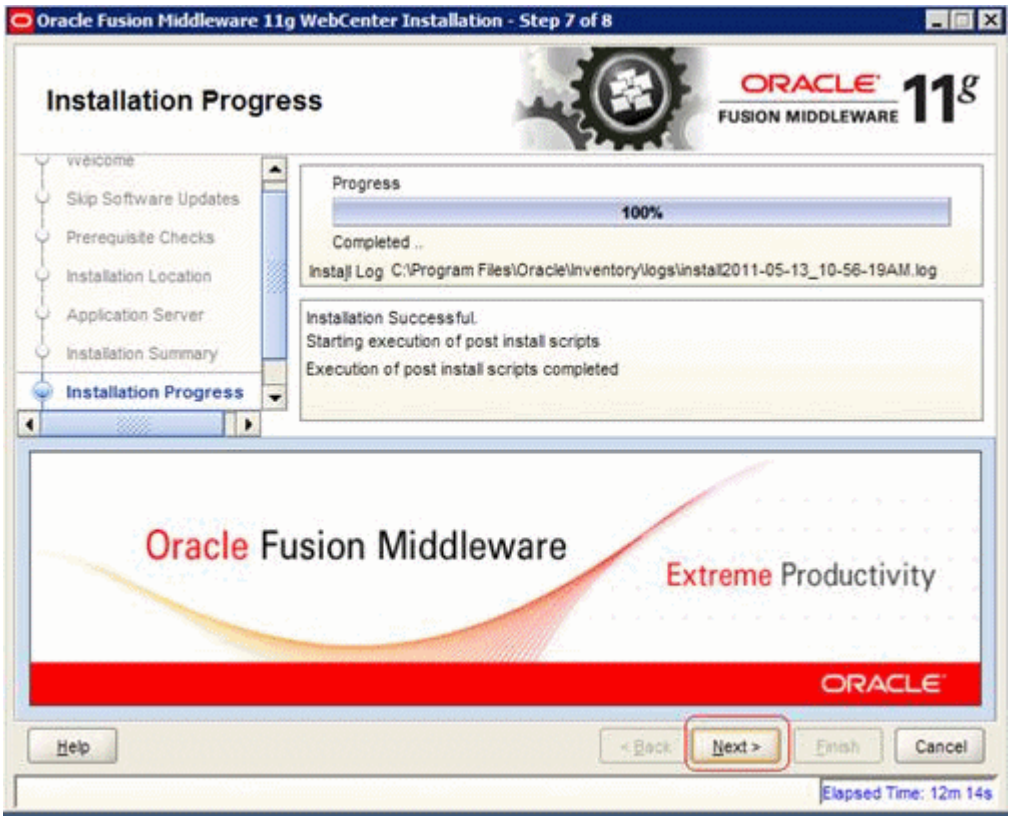
7. Select the application server.

Note: EnterpriseOne supports only a WebLogic Server as the application server.

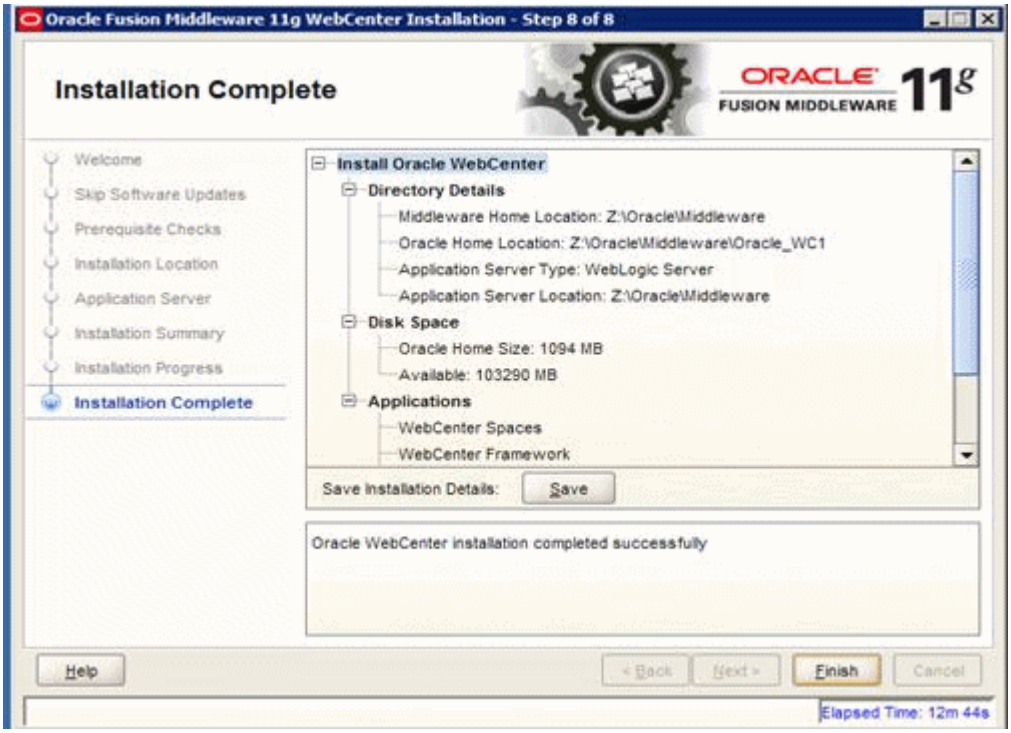


8. Click **Next**.
9. Review the Install Summary.

10. Click **Install** to start the install process.

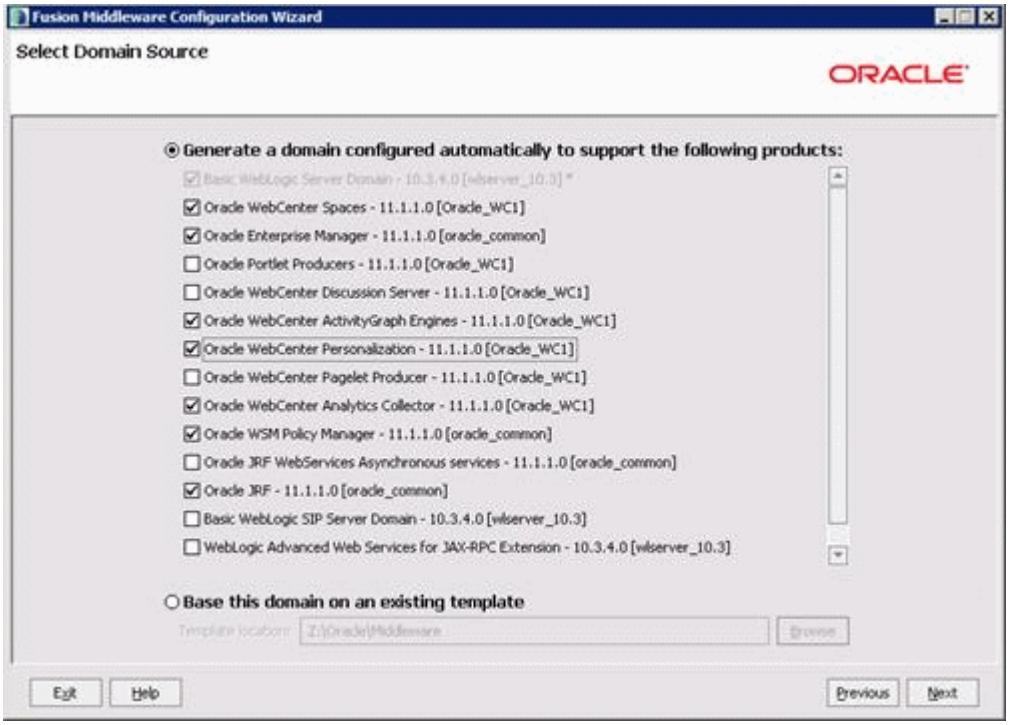


11. Click **Next** to continue.

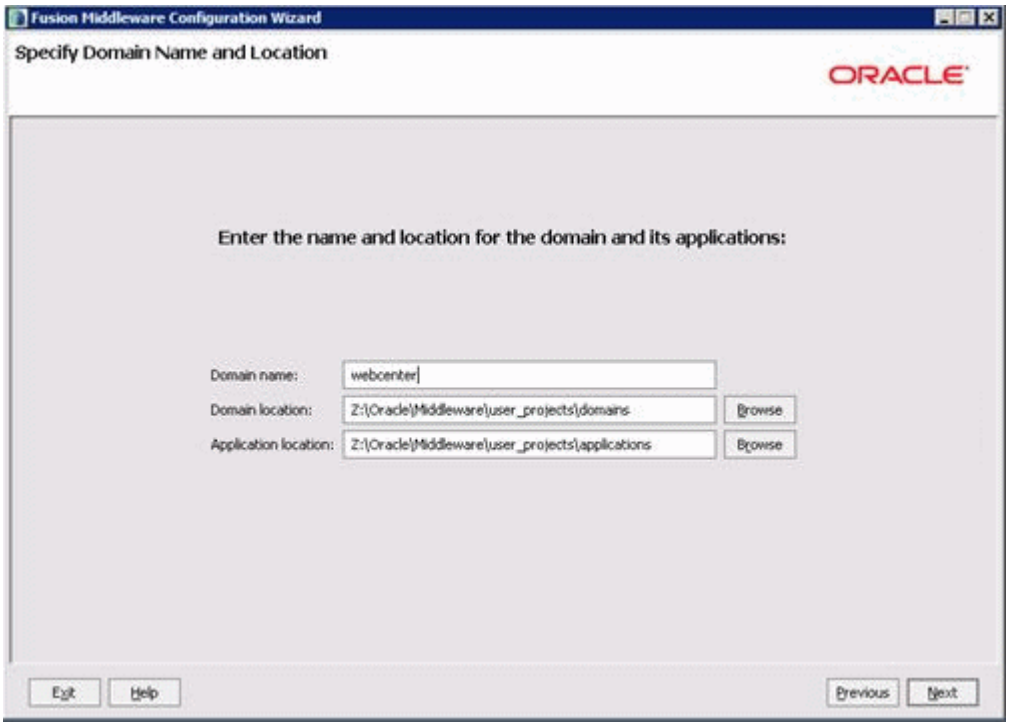


12. Click **Finish** when the install process is completed.

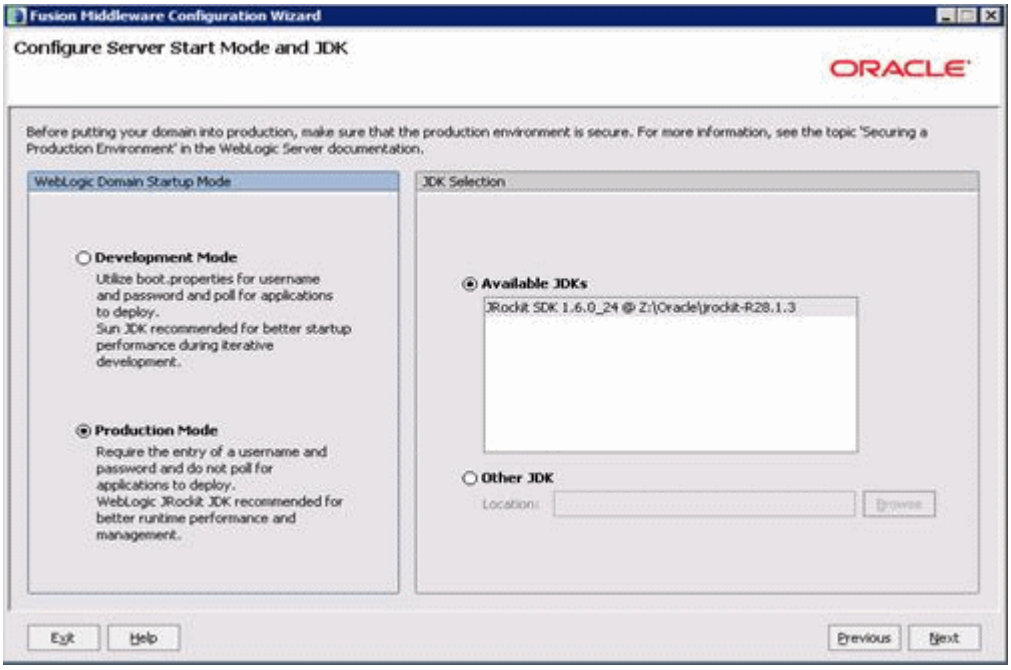
13. Run config.cmd (.sh) from <MW_Home>\Oracle_WC1\common\bin folder to create the WebCenter domain.
14. Select **Create a new WebLogic domain** option.
15. Select the products to be part of this domain. You can add more products later.



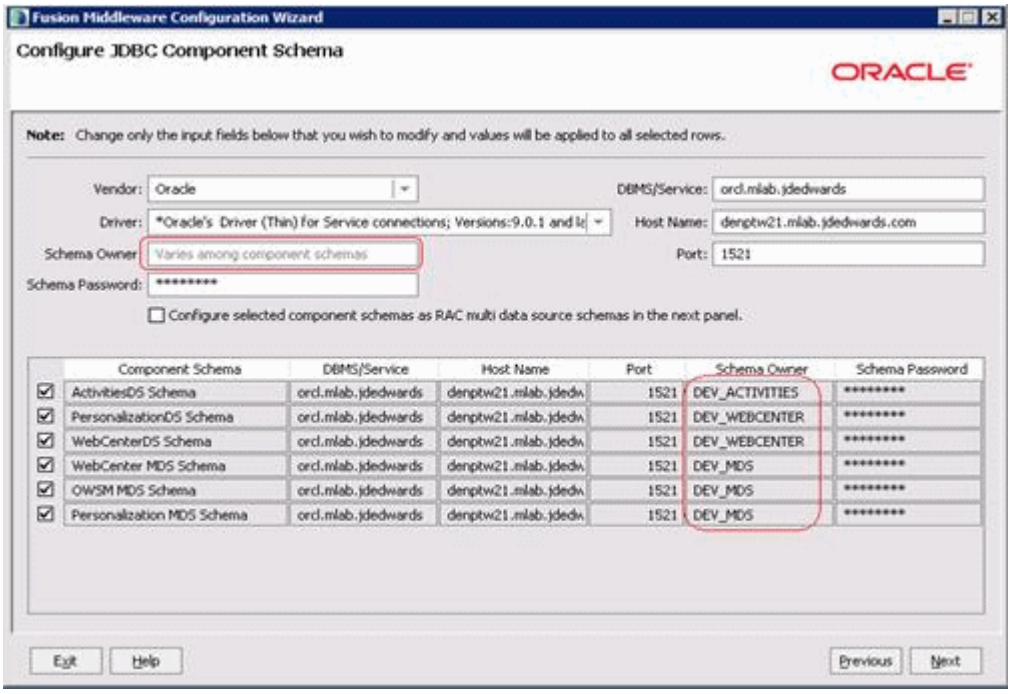
16. Click **Next**.
17. Enter the domain name.



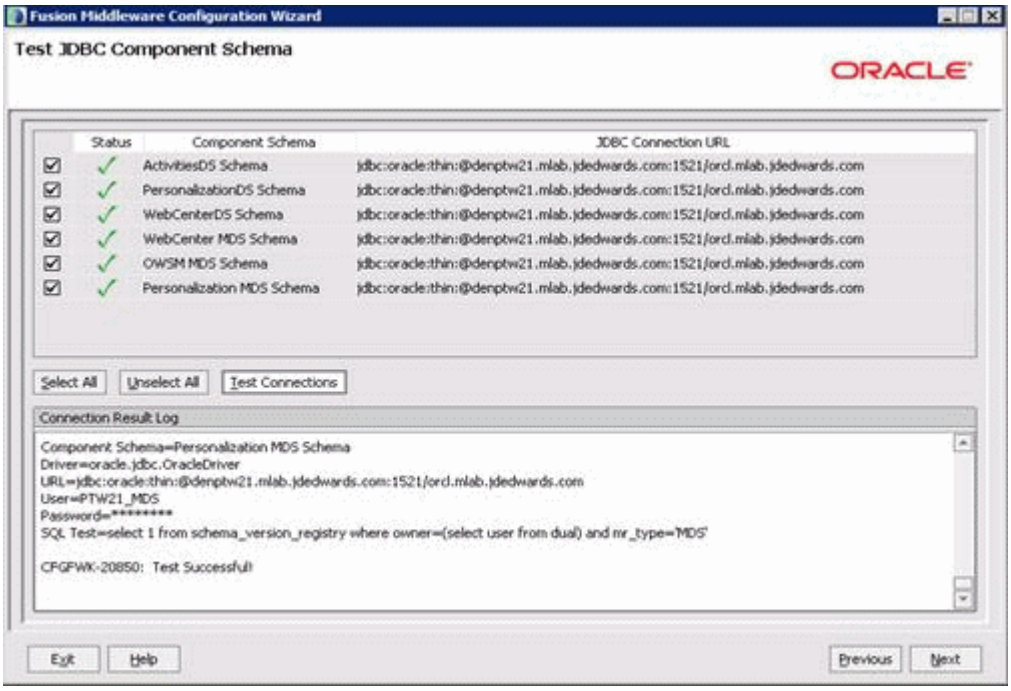
18. Enter the domain Administrator user and password.
19. Select **Production Mode**.
20. Verify the available JDK.



21. Enter the JDBC Component Schema database connection.



22. Test JDBC Schema connection.



23. Select the Administration Server and Managed Server, Cluster and Machine.

24. See Appendix B to complete the domain creation.

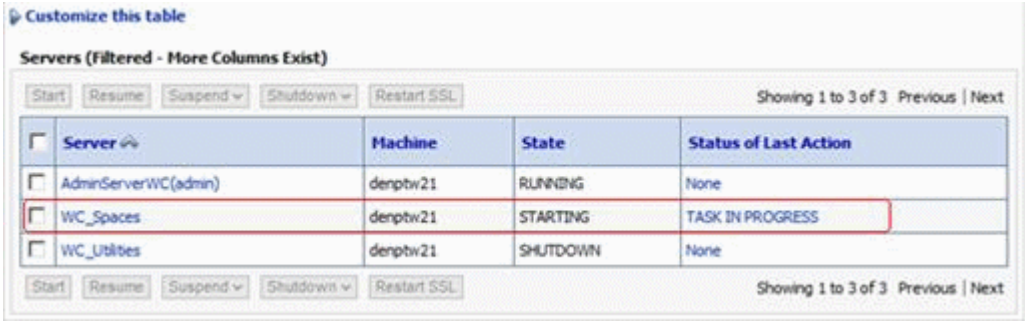
3.2.1 Post Installation Configuration

1. Start the WebCenter Admin Server (startWebLogic.cmd (.sh)) from <MW_Home>\user_projects\domains\<webcenter_domain>\bin folder.
2. Start WebLogic NodeManager (startNodeManager.cmd/sh) from <MW_home>\wlserver_10.3\server\bin.
3. The startNodeManager process creates a nodemanager.properties file in <MW_home>\wlserver_10.3\common\nodemanager folder.
4. Once the file is created, run *setNMProps.cmd/.sh* from <MW_home>oracle_common\common\bin folder.

Note: Another option is that you can edit the nodemanager.properties by opening the file with an editor and change StartScriptEnabled to true.

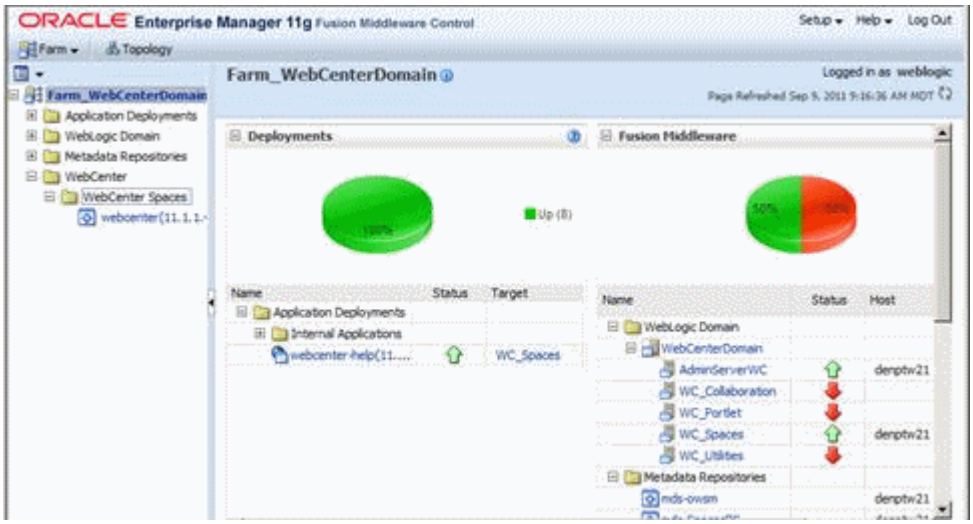
Important: WebCenter Spaces will not start correctly if this value is not set.

5. After the value is changed, you must stop and restart NodeManager.
6. Start the domain Admin Server and WC_Spaces.

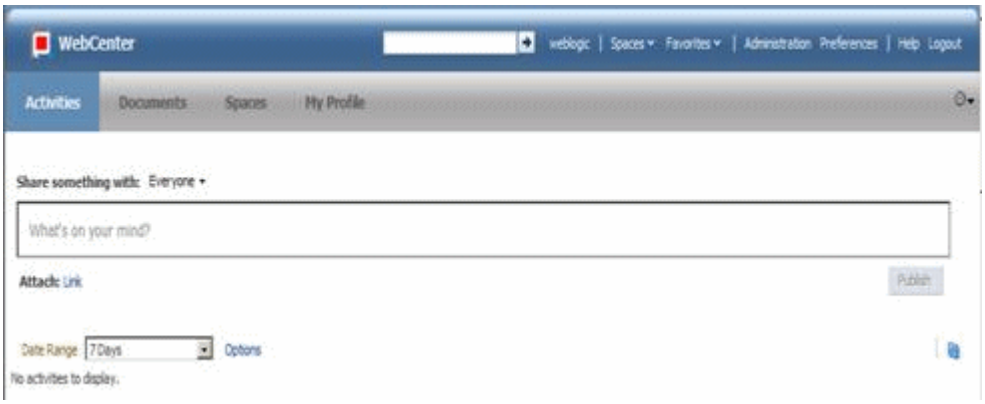


7. After the Admin Server is started, you can access the domain console, Enterprise Manager, and WebCenter Spaces.

   `http://server:7001/console` (Enterprise Manager)
   `http://server:7001/em` (Domain Console)



http://server:8888/webcenter



8. Click **About WebCenter Spaces** on the bottom right to verify the version level.

3.3 Configuring the WebLogic Domain for Oracle Access Manager

Configuring the WebLogic Domain for OAM consists of these tasks:

- Configuring the Oracle Internet Directory Authenticator
- Configuring the OAM Identity Asserter

3.3.1 Configuring the Oracle Internet Directory Authenticator

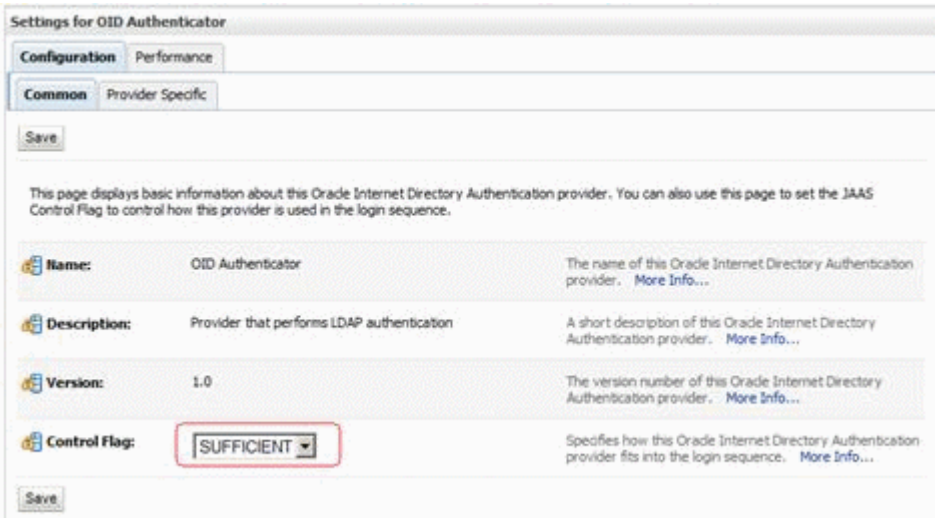
Assuming Oracle Internet Directory is backing the Oracle Access Manager (OAM) identity store, an Oracle Internet Directory authenticator (OracleInternetDirectoryAuthenticator) should be configured for the LDAP server that is used as the identity store of OAM, and the provider should be set to SUFFICIENT.

Use these steps to configure the Oracle Internet Directory Authenticator.

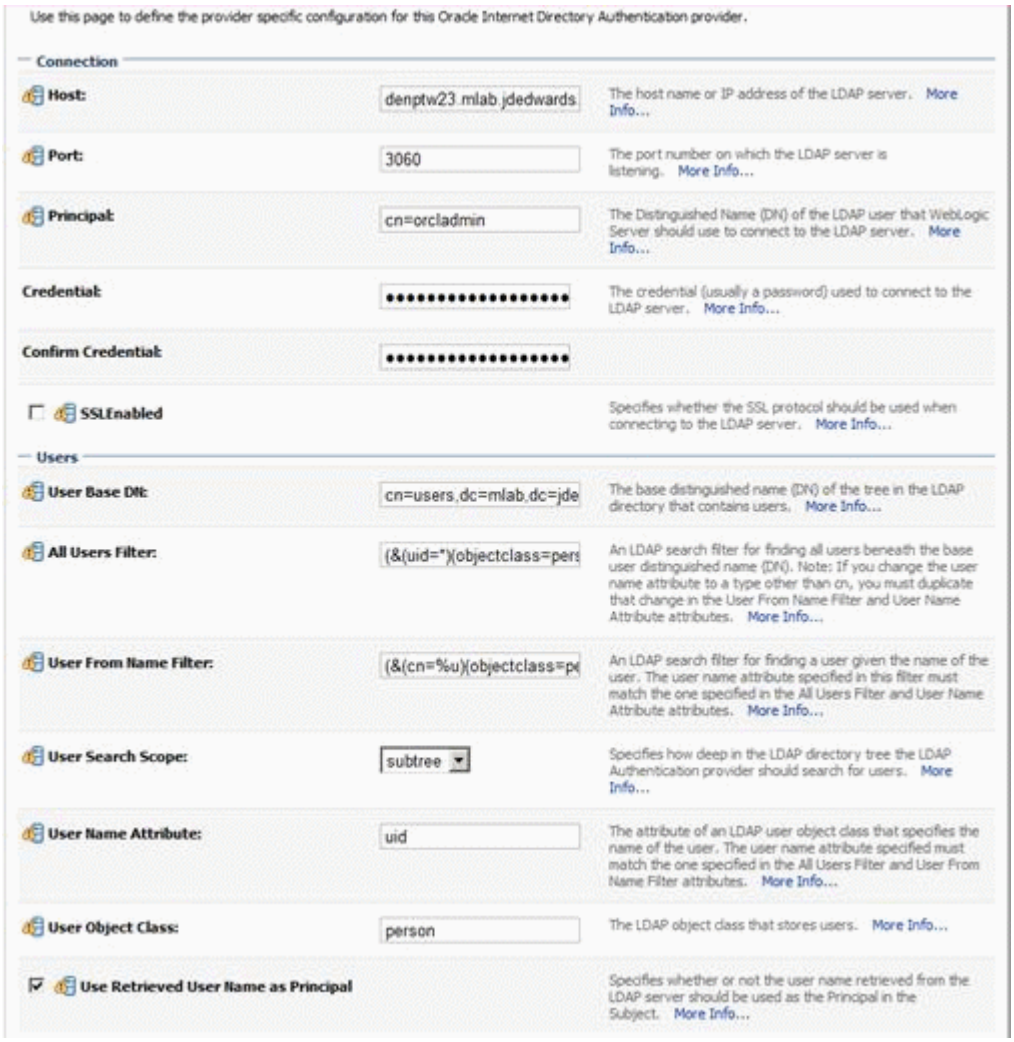
1. Log in to the WebCenter WebLogic Server Administration Console.
2. From the Domain Structure pane, click Security Realms

3. Select the realm entry for which to configure the OID authenticator.
4. Select the **Providers** tab.
5. Click **New** to create a provider.

6. Enter a name for the new provider (for example, OID Authenticator), select **OracleInternetDirectoryAuthenticator** as the type, and then click **OK**.
7. On the **Providers** tab, click the newly added provider. The common setting pane appears.



8. Set the control flag to SUFFICIENT and click Save.
9. Open the Provider Specific tab.



10. Complete the fields as shown in the table below. Leave the rest of the fields set to their default values.

Field	Value	Comment
Host:	The host ID for the LDAP server	
Port:	The LDAP server port number	
Principal:	The LDAP administrator principal	
Credential:	<password>	The administrator principal password
Confirm Credential:	<password>	
User Base DN:	User Search Base - this value should be the same as for the OAM Access Manager setup.	
All User Filter:	(&(uid=*)(objectclass=person))	
User Name Attribute	uid	
Group Base DN:	Group search base - same as user base DN	
Use Retrieved User Name as Principal	Checked	User login IDs are usually case insensitive. This flag is required so that the subject established contains the user name as stored in the OID.

11. Click **Save**.

3.3.2 Configuring the OAM Identity Asserter

In a WebLogic Server domain where JRF is installed, the JRF template is present as part of the domain in an Oracle Fusion Middleware product. In this case, the OAM Identity Asserter and OAM Authentication Provider are automatically available for configuration. If JRF is not installed in your WebLogic domain, you must add the OAMAuthnProvider.jar to a specific location in your domain.

Configuring the OAM Identity Asserter consists of these tasks:

- Adding the OAM Identity Asserter
- Configuring the Default Authenticator and Provider Order
- Adding an OAM Single sign-On Provider

Prerequisites

Confirm the required JAR and WAR files as follows:

- Confirm the location of required JAR files in the following Fusion Middleware path:

<MW_Home>/oracle_common/modules/oracle.oamprovider_
11.1.1/oamAuthnProvider.jar

- Locate the console-extension WAR file in the following path:

<MW_Home>/oracle_common/modules/oracle.oamprovider_
11.1.1/oamauthenticationprovider.war

- Copy the WAR file to the following path in the WebLogic Server home:

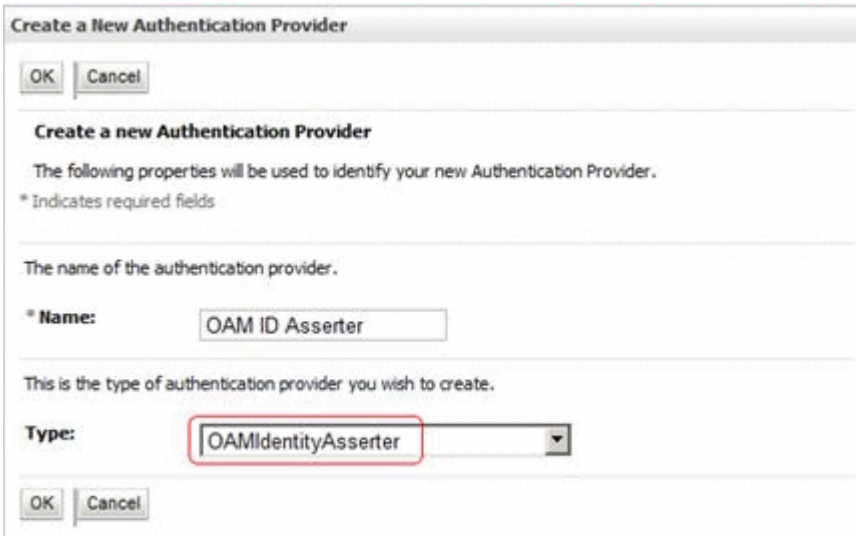
<MW_Home>/wlserver_
10.3/server/lib/console-ext/autodeploy/oamauthenticationprovider.war

3.3.2.1 Adding the OAM Identity Asserter

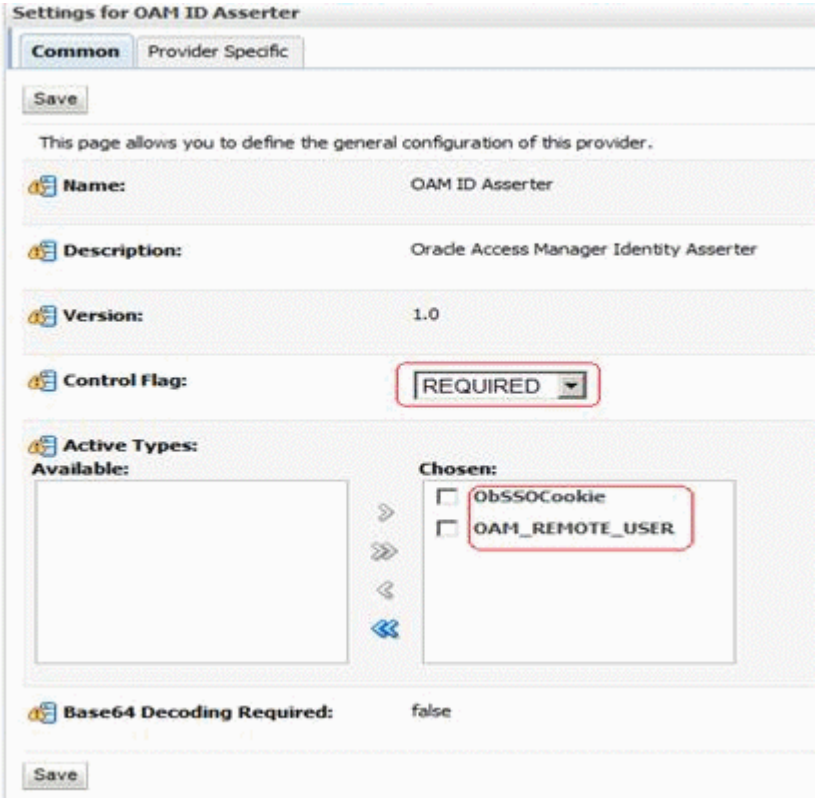
An OAM identity asserter must be configured with the provider control flag set to required.

Use these steps to add the OAM Identity Asserter.

1. Log in to the WebCenter WebLogic Server Administration Console.
2. From the Domain Structure pane, click **Security Realms**.
3. Click the realm entry for which to configure the OAM identity asserter.
4. From the **Providers** tab, click **New**.



5. Enter a name for the new provider (for example, OAM ID Asserter), select OAMIdentityAsserter as its type and click **OK**.
6. On the Providers tab, click the newly added provider.



7. Set the control flag to **REQUIRED** and check that **OAM_REMOTE_USER** and **ObSSOCookie** are set for Active Types.
8. Click **Save** to save your settings.

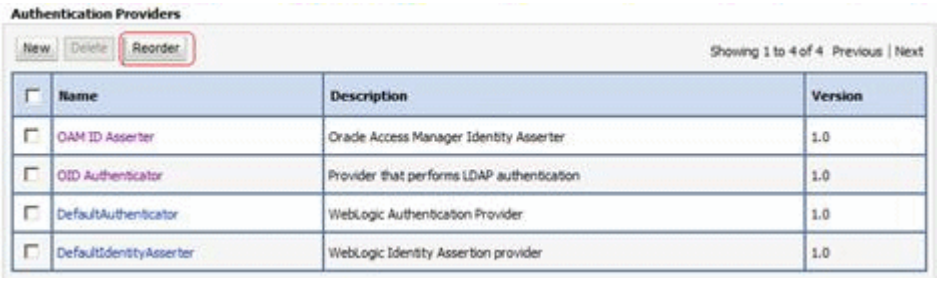
3.3.2.2 Configuring the Default Authenticator and Provider Order

After configuring the OAM identity asserter, ensure that the default authenticator's control flag is set to SUFFICIENT and reorder the providers.

Use these steps to configure the default authenticator and provider order.

1. Navigate to the Provider Settings pane.
2. Open the Default Authenticator and set the control flag to **SUFFICIENT**.
3. Do the same for any providers other than the two you just created.
4. On the Setting Pane, reset the provider order to:

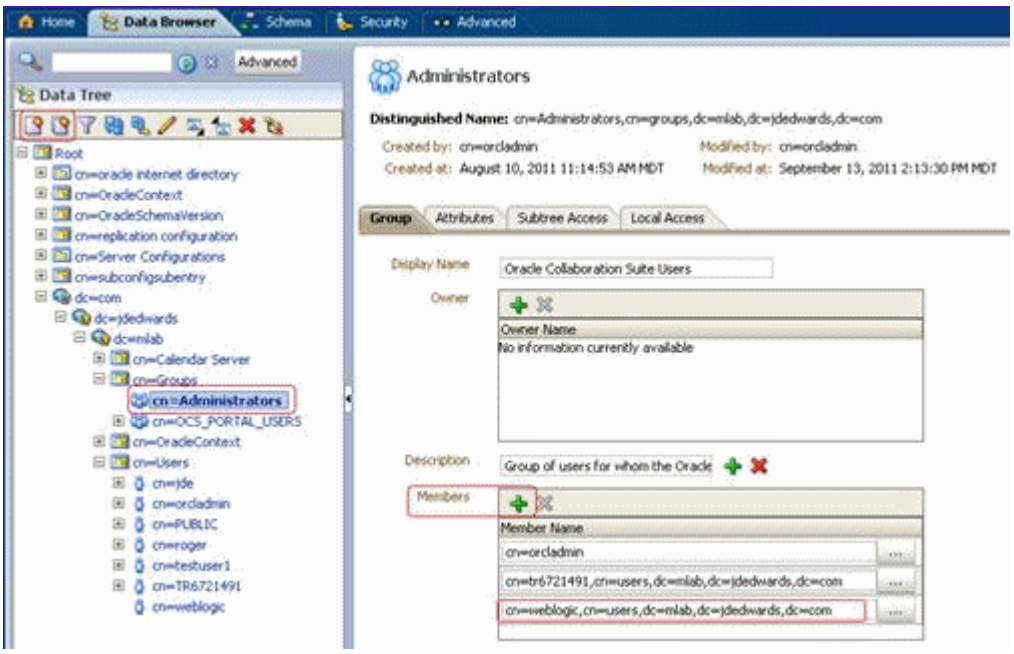
- OAMIdentityAsserter(REQUIRED)
- OracleInternetDirectoryAuthenticator (SUFFICIENT)
- DefaultAuthenticator (SUFFICIENT)
- DefaultIdentityAsserter



Note: On Windows platform, if your WebLogic user is not part of the OID Administrators group, you will not be able to restart the WebLogic Admin Server.

You can use these steps to add an Administrators group and add your user in it.

1. Connect to Oracle Directory Manager
2. Create a new Group, Administrators. You can use the **Create Like** option.
3. Add your admin user to this group



Now, you should able to start the WebLogic Admin Server.

3.3.2.3 Adding an OAM Single Sign-On Provider

After checking that the default authenticator's control flag is set correctly and that the order of the providers is correct, add an OAM SSO provider and restart all servers.

1. Connect to the WebLogic domain using WLST and run the following command:

   Start WLST.cmd or WLST.sh from <MW_Home>oracle_common\common\bin folder

   Connect ('admin-user','admin-password','t3://localhost:7001')

addOAMSSOProvider
(loginuri="/${app.context}/adfAuthentication",logouturi="/oamsso/logout.html"
)

2. Exit the tool.
3. Restart all servers.

3.4 Installing Oracle WebGate

Next, you install Oracle WebGate 11.1.1.5.

Oracle HTTP Server WebGate is a web server plug-in that is shipped out-of-the-box with Oracle Access Manager. The Oracle HTTP Server WebGate intercepts HTTP requests from users for web resources and forwards them to the Access Server for authentication and authorization. Oracle HTTP Server WebGate installation packages are found on media and virtual media that is separate from the core components.

Prerequisites

Install Oracle HTTP Server (*See Appendix C*)

- If you are installing Oracle HTTP Server 11g WebGate for Oracle Access Manager on a Linux or Solaris operating system, you must download and install third-party GCC libraries on your machine.

  You can download the appropriate GCC library from the following third-party website:

  `http://gcc.gnu.org/`

Operating System	Architecture	GCC Libraries	Required Library Version
Linux 64-bit	x64	libgcc_s.so.1 libstdc++.so.6	3.4.6
Solaris 64-bit	SPARC	libgcc_s.so.1 libstdc++.so.5	3.3.2

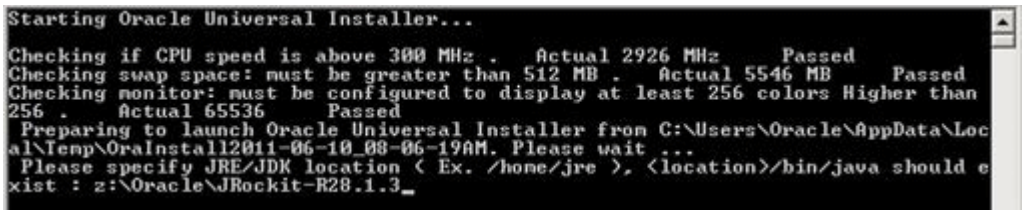
- If you are using Windows 2008 64-bit operating systems, you must install Microsoft Visual C++ 2005 libraries on the machine hosting the Oracle HTTP Server 11g WebGate.

  The libraries are included in the Microsoft Visual C++ 2005 SP1 Redistributable Package (x64), which can be downloaded from the following website:

  `http://www.microsoft.com/DownLoads/details.aspx?familyid=EB4EBE2D-33C0-4A47-9DD4-B9A6D7BD44DA&displaylang=en`

Use these steps to install Oracle HTTP 11g WebGate.

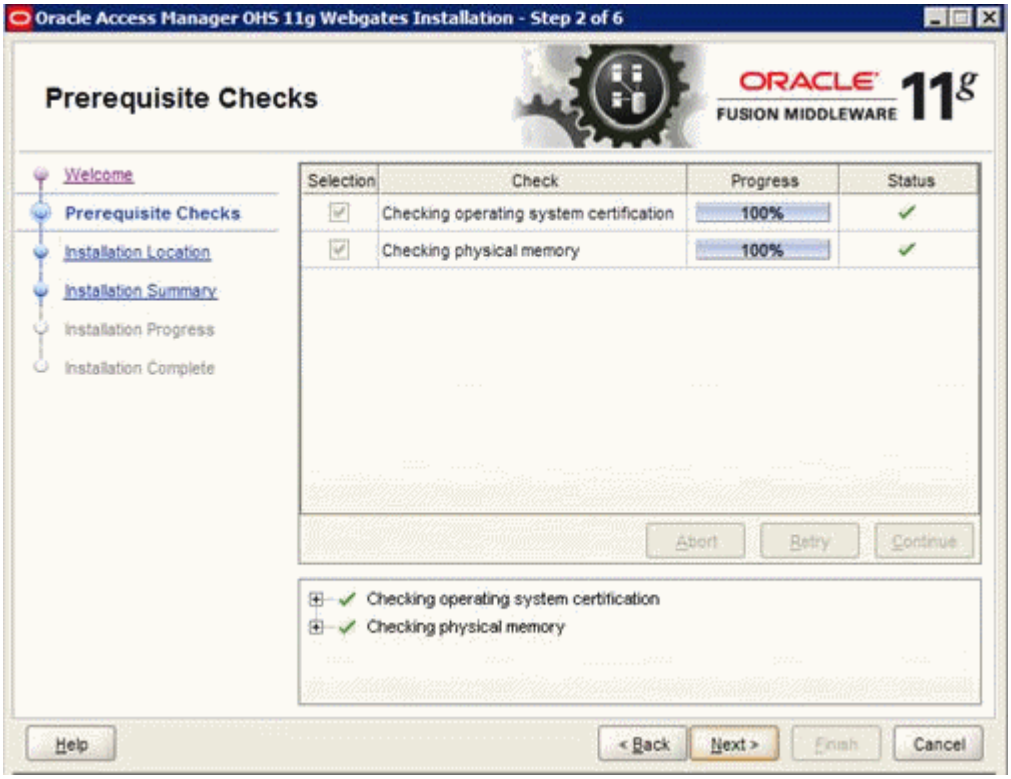
1. Download and unzip ofm_oam_webgates_generic_11.1.1.5.0_disk1_1of1.zip.
2. Launch the installer:
   - On Windows: *setup.exe* with **Run as administrator**option.
   - On UNIX: *./RunInstaller* as a non-root user.
3. Specify JRE/JDK location.



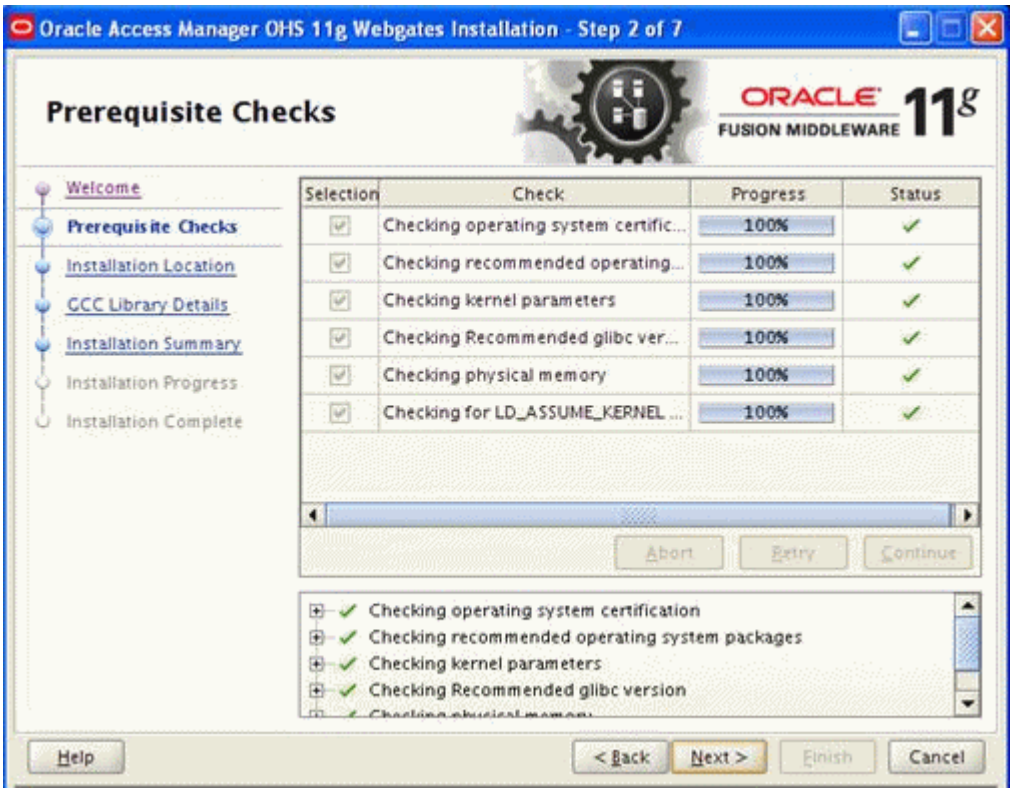
4. Click **Next** on the Welcome page.

   Oracle HTTP WebGate supports Oracle HTTP version 11.1.1.2 or 11.1.1.3. EnterpriseOne configuration supports version 11.1.1.5. See Appendix A to upgrade to Version 11.1.1.5.

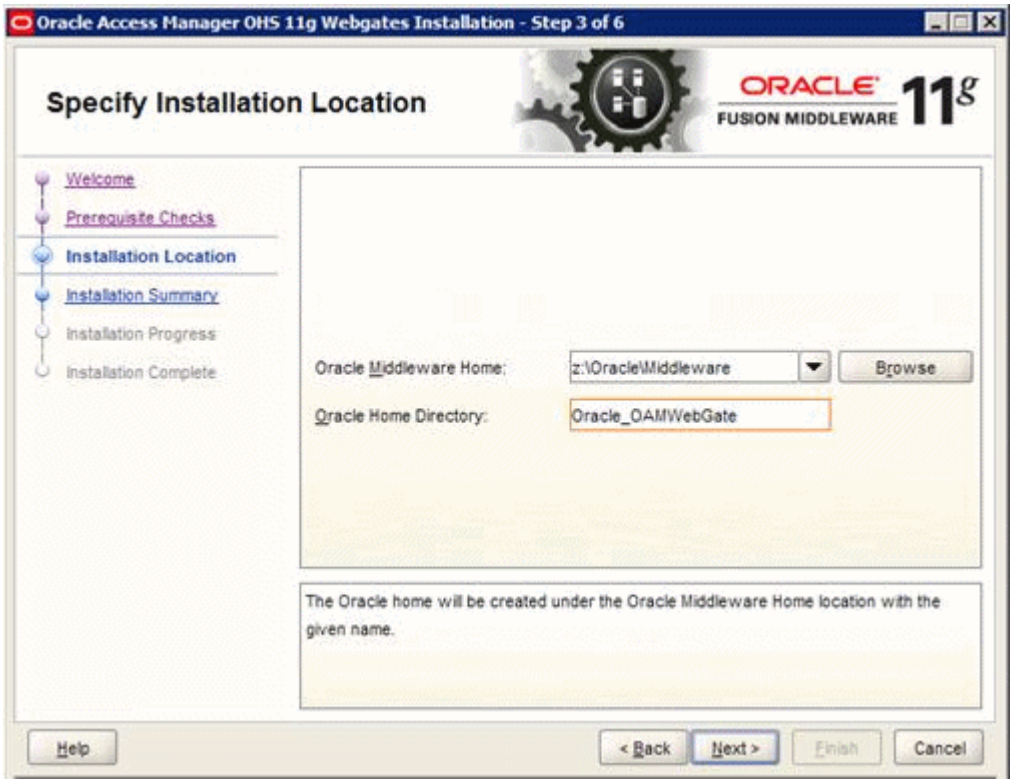
5. The installer performs prerequisite checks.



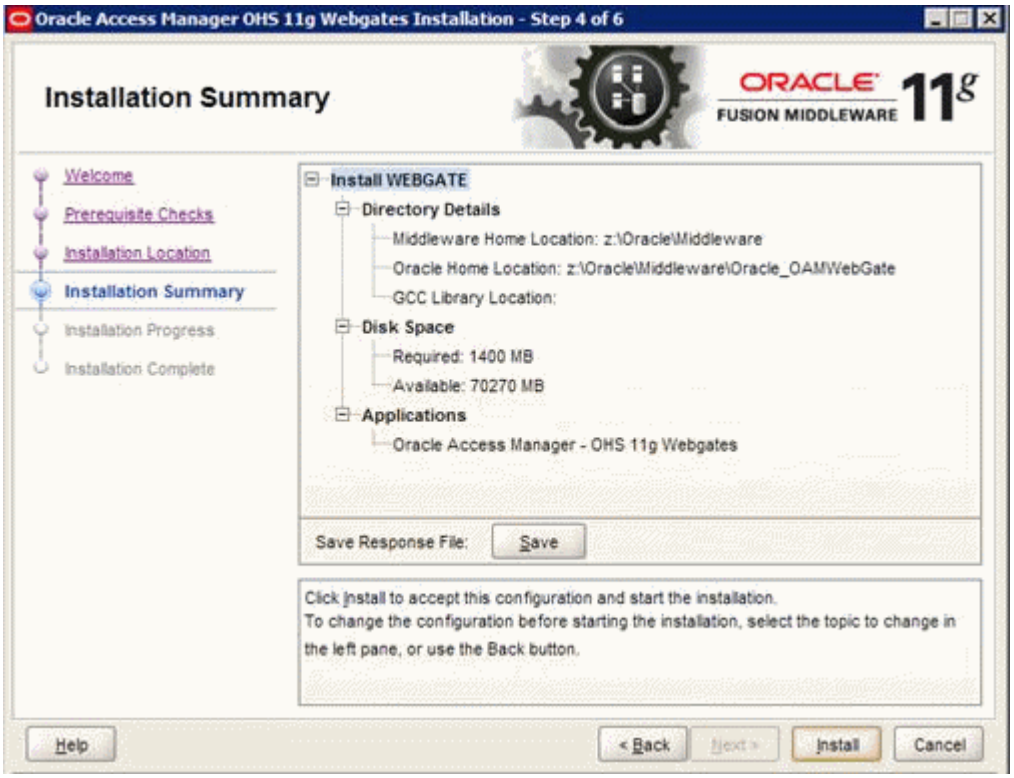
This image shows the prerequisite checks on Linux operating system:



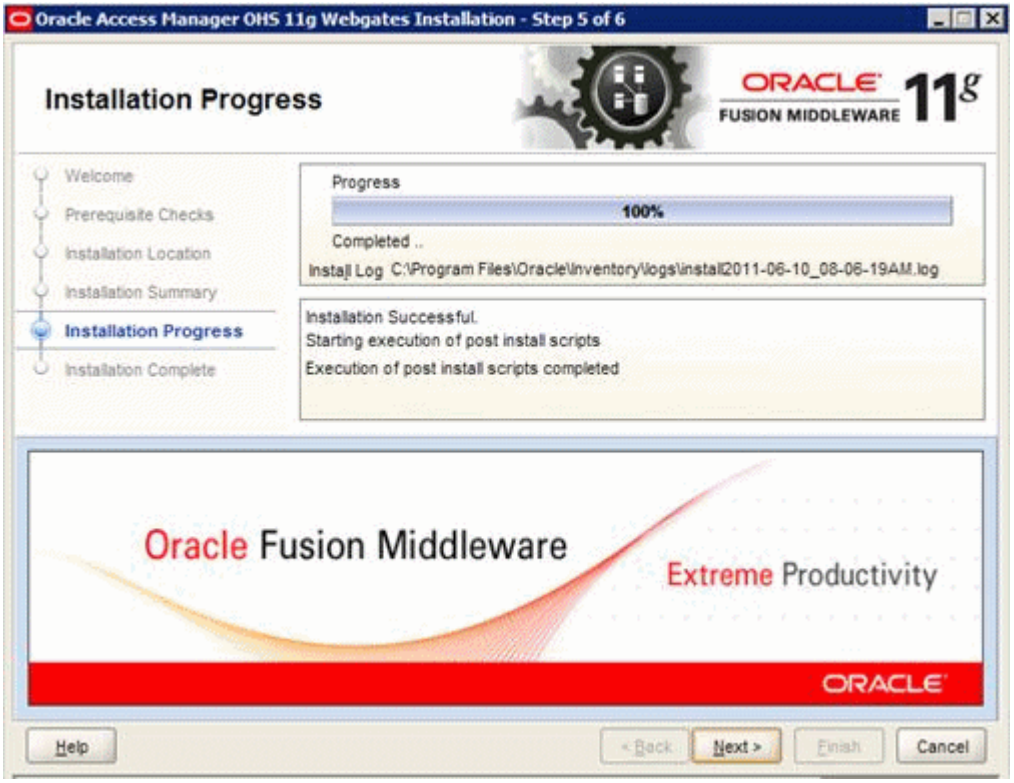
6. Specify the Middleware Home and WebGate Home Directory.



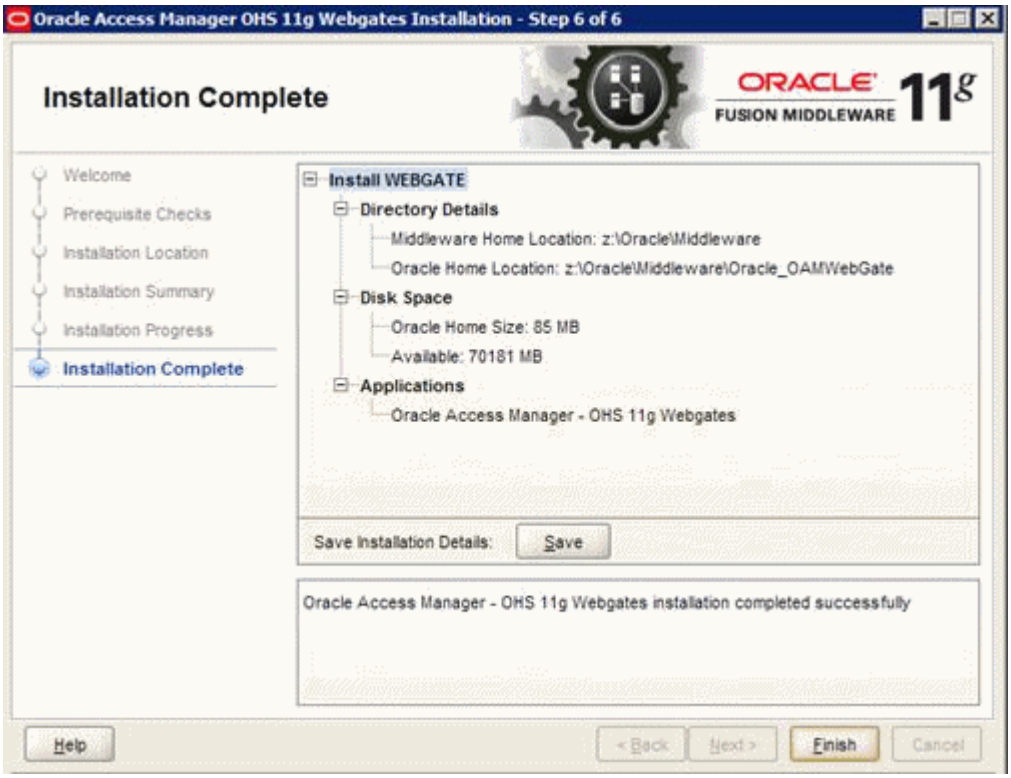
7. Review the installation Summary.



8. Click **Install**.



9. Click **Next** when the installation is completed.



10. Click **Finish** when the installation is completed.

3.4.1 Post-Installation Steps

You must complete the following steps after installing Oracle HTTP Server 11g WebGate for Oracle Access Manager:

1. Move to the following directory under your Oracle Home for WebGate:
   - On UNIX operating systems:

     <webgate_home>/webgate/ohs/tools/deployWebGate
   - On Windows operating systems:

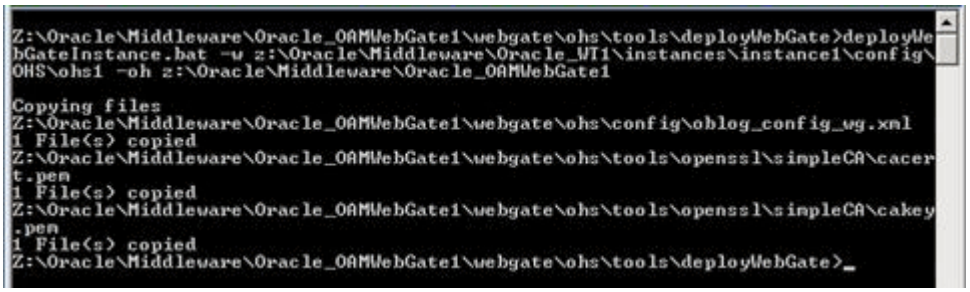
     <webgate_home>\webgate\ohs\tools\deployWebGate
2. On the command line, run the following command to copy the required bits of agent from the Webgate_Home directory to the WebGate instance location:
   - On UNIX operating systems:

     ./deployWebgateInstance.sh -w <Webgate_Instance_Directory> -oh <Webgate_Oracle_Home>

```
[oracle@dendel106 deployWebGate]$ ./deployWebGateInstance.sh -w /u01/wls1035/Mid
dleware/Oracle_WT1/instances/instance1/config/OHS/ohs1/ -oh /u01/wls1035/Middlew
are/Oracle_OAMWebGate1/
Copying files from WebGate Oracle Home to WebGate Instancedir
[oracle@dendel106 deployWebGate]$
```

   - On Windows operating systems:

deploy WebgateInstance.bat -w <Webgate_Instance_Directory> -oh <Webgate_Oracle_Home>



Where <Webgate_Oracle_Home> is the directory where you have installed Oracle HTTP Server WebGate and created as the Oracle Home for WebGate.

For example: <MW_Home>/Oracle_OAMWebGate1

The <Webgate_Instance_Directory> is the location of WebGate Instance Home, which is same as the Instance Home of Oracle HTTP Server.

For example: <MW_Home>/Oracle_WT1/instances/instance1/config/OHS/ohs1

3. Run the following command to ensure that the LD_LIBRARY_PATH variable contains <Oracle_Home_for_Oracle_HTTP_Server>/lib:
   - On UNIX operating systems:

     Export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:<Oracle_Home_for_Oracle_HTTP_Server>/lib
   - On Windows operating systems:

     Set the <Webgate_Installation_Directory>\webgate\ohs\lib location in the PATH environment variable.
4. From your present working directory, move up one directory level:
   - On UNIX operating systems:

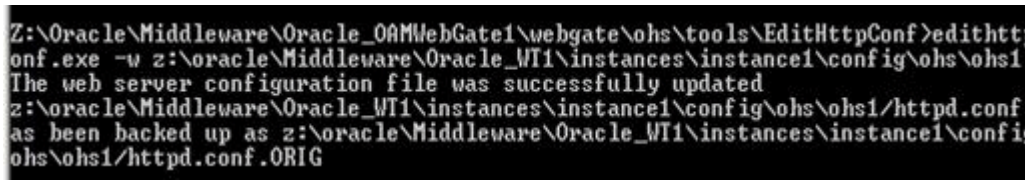
     <webgate_home>/webgate/ohs/tools/setup/InstallTools
   - On Windows operating systems:

     <webgate_home>\webgate\ohs/tools\editHttpConf
5. On the command line, run the following command to copy the apache_webgate.template from the Webgate_Home directory to the Webgate Instance location (renamed to webgate.conf) and update the httpd.conf file to add one line to include the name of webgate.conf:
   - On UNIX operating systems:

     ./EditHttpConf -w <Webgate_Instance_Directory> [-oh <Webgate_Oracle_Home>] [-o <output_file>]

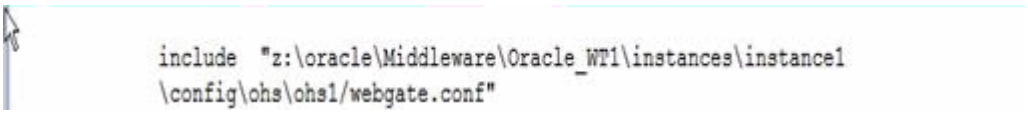
- On Windows operating systems:

  EditHttpConf.exe -w <Webgate_Instance_Directory> [-oh <Webgate_Oracle_Home>] [-o <output_file>]



Note: The [-oh <Webgate_Oracle_Home>] and [-o <output_file>] parameters are optional.

6. Verify the updated httpd.conf.
   - The following line is added to the bottom of the file:



Note: Do not restart the Oracle HTTP server until the WebGate agent is registered for WebCenter Spaces; errors will continue to display in the command line if the Oracle HTTP server processes are restarted.

3.5 Configuring Oracle HTTP Server for WebCenter Spaces

After you install and configure Oracle HTTP Server and Oracle HTTP WebGate, you configure the Oracle HTTP server for WebCenter Spaces.

Use the following example to configure *mod_wl_ohs.conf*. Verify that WebLogic port numbers match your configuration.


```
# This empty block is needed to save mod_wl related configuration from EM to this file when changes are made at
the Base Virtual Host Level
<IfModule weblogic_module>
#       WebLogicHost <WEBLOGIC_HOST>
#       WebLogicPort <WEBLOGIC_PORT>
#       Debug ON
#       WLLogFile /tmp/weblogic.log
#       MatchExpression *.jsp
<IfModule weblogic_module>

<IfModule mod_weblogic.c>
        MatchExpression /webcenter WebLogicHost=denptw21.mlab.jdedwards.com|WebLogicPort=8888
        MatchExpression /rss WebLogicHost=denptw21.mlab.jdedwards.com|WebLogicPort=8890
        MatchExpression /owc_wiki WebLogicHost=denptw21.mlab.jdedwards.com|WebLogicPort=8890
        MatchExpression /owc_discussions WebLogicHost=denptw21.mlab.jdedwards.com|WebLogicPort=8890
        MatchExpression /workflow WebLogicHost=denptw21.mlab.jdedwards.com|WebLogicPort=8888
        MatchExpression /integration/worklistapp WebLogicHost=denptw21.mlab.jdedwards.com|WebLogicPort=8888
        MatchExpression /integration/services WebLogicHost=denptw21.mlab.jdedwards.com|WebLogicPort=8888
        MatchExpression /soa-infra WebLogicHost=denptw21.mlab.jdedwards.com|WebLogicPort=8888
</IfModule>

# <Location /weblogic>
#       SetHandler weblogic-handler
#       PathTrim /weblogic
#       ErrorPage  http:/WEBLOGIC_HOME:WEBLOGIC_PORT/
#  </Location>

<Location /console>
     SetHandler weblogic-handler
     WebLogicHost  denptw21.mlab.jdedwards.com
     WebLogicPort  7001
</Location>

<Location /em>
     SetHandler weblogic-handler
     WebLogicHost  denptw21.mlab.jdedwards.com
     WebLogicPort  7001
</Location>
```

After you edit *mod_wl_ohs.conf*, restart the HTTP server.

Now you can access WebCenter using the HTTP port; for example,

http://denptw21.mlab.jdedwards.com:7777/webcenter

If you added (optional) the domain console and enterprise manager connections, then the HTTP URL will be:

http://denptw21.mlab.jdedwards.com:7777/console
http://denptw21.mlab.jdedwards.com:7777/em

3.6 Registering the WebGate Agent for WebCenter Spaces

You must register the WebGate Agent for WebCenter Spaces.

Prerequisites:

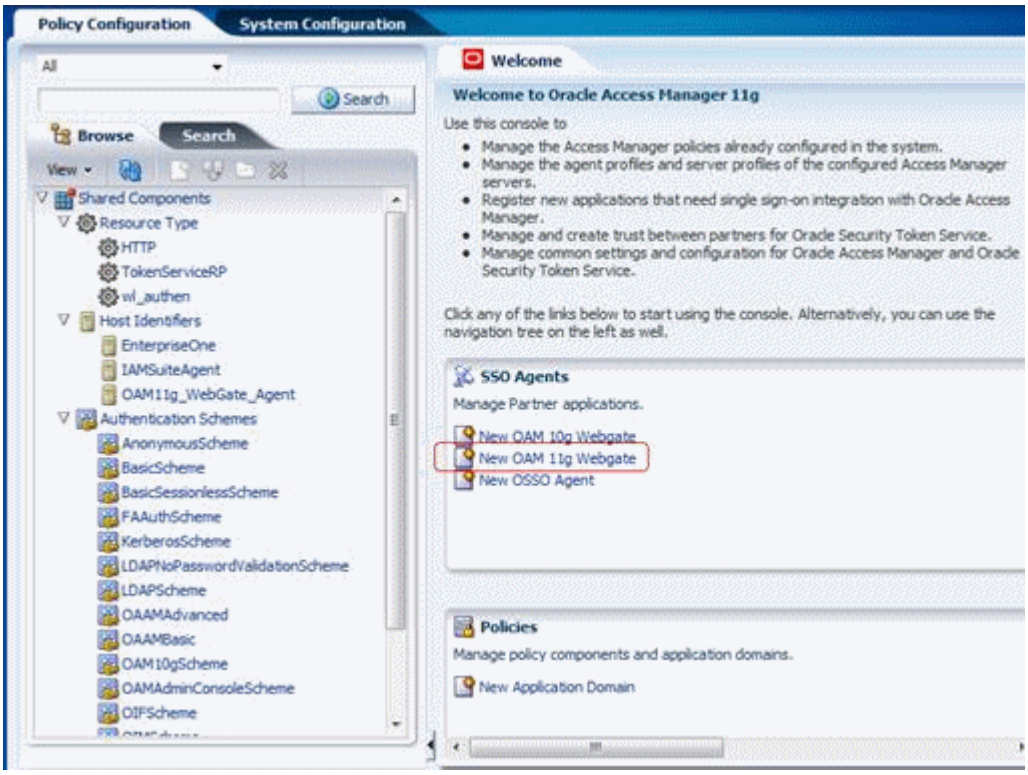
- Install and configure Oracle HTTP Server and WebGate.
- Install and configure OID and OAM Server.
- Install and configure Oracle WebCenter Spaces.

3.6.1 Registering the WebGate Agent

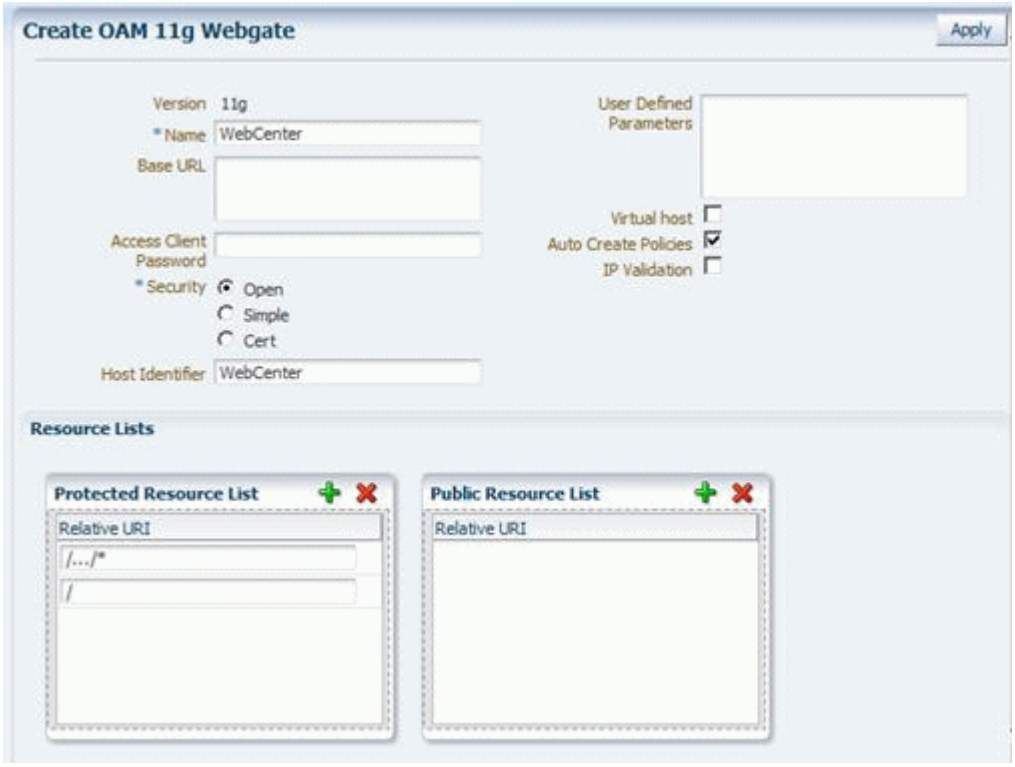
Use these steps to register the WebGate Agent.

1. Open an internet browser and connect to Oracle Access Manager.
2. Open the OAM console.

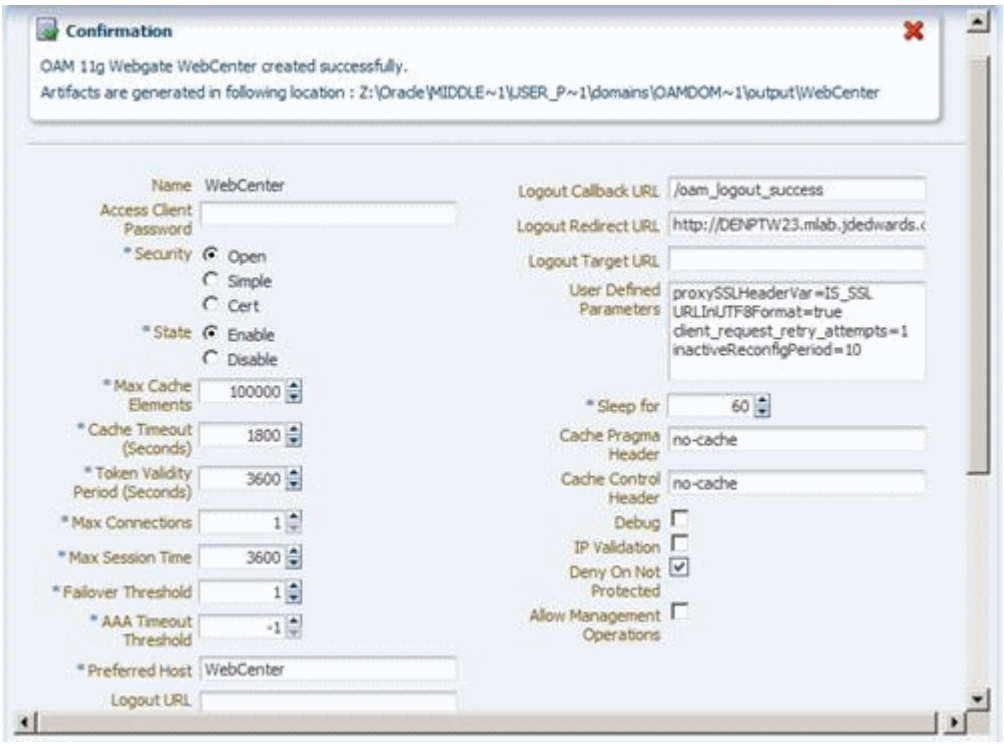
   http://oamserver:oamport/oamconsole
3. Enter the Admin user and Password.
4. Select New OAM 11g Webgate option.



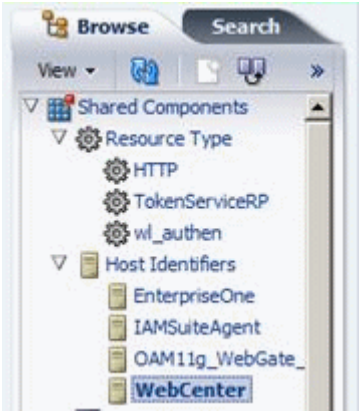
5. Enter a WebGate agent name and select the Open security option.
6. Enter your WebCenter URL in Base URL.

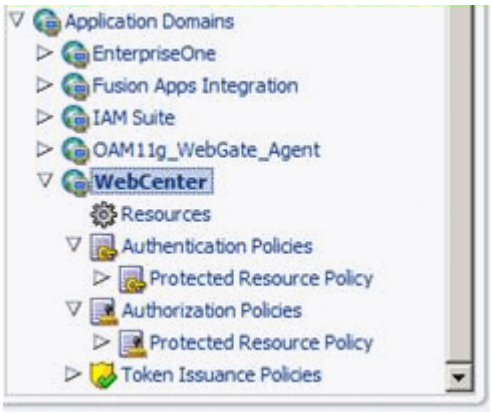


7. Click **Apply** to create the agent. Authorization and authentication policies will be created.

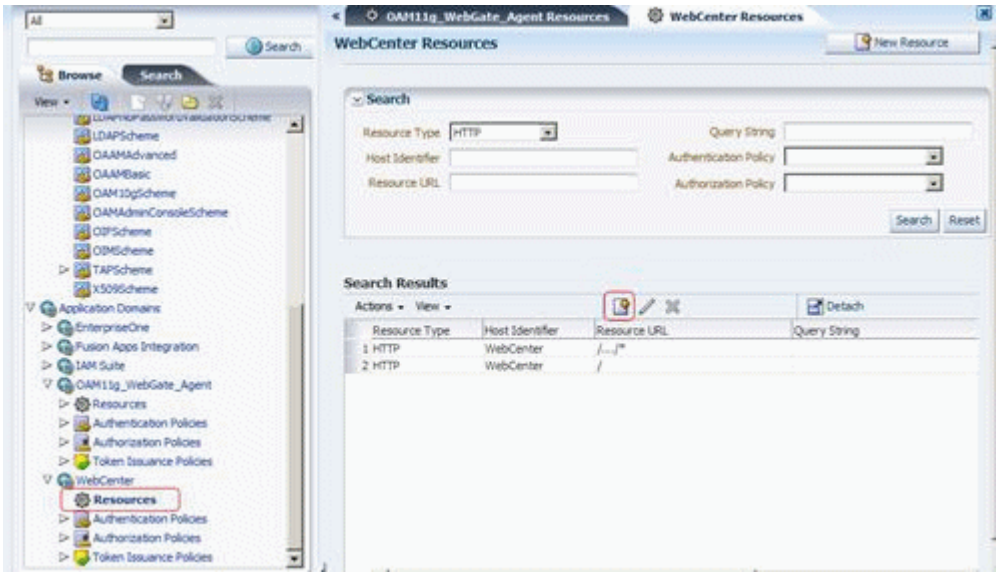


8. A Host Identifier and an Application Domain is generated as well.

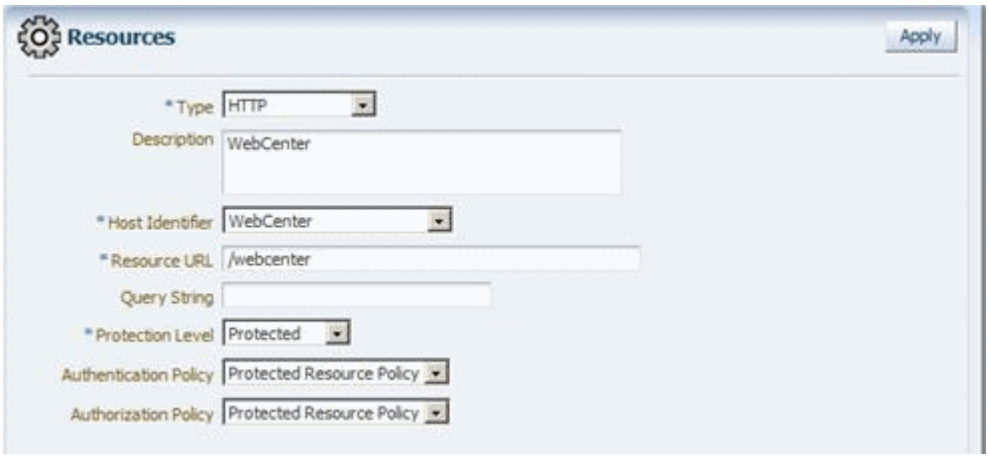




9. Create the Resource URL from the Resources option
10. Click the **Create** button

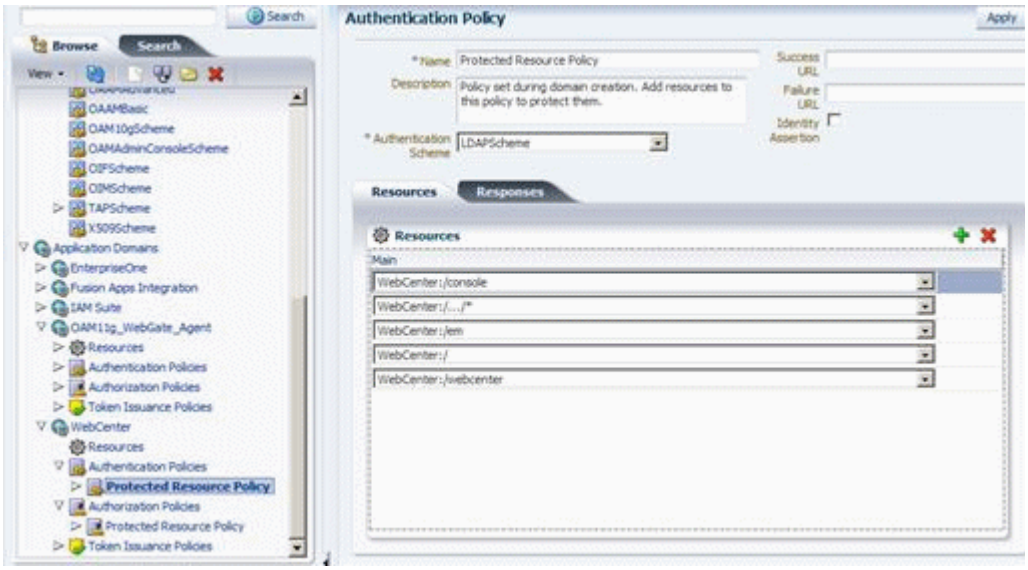


11. Enter the following information:
    - Type = HTTP
    - Host Identifier = Select your Host Identifier
    - Resource URL = /webcenter
    - Protection Level = Protected
    - Authentication Policy = Protected Resource Policy
    - Authorization Policy = Protected Resource Policy



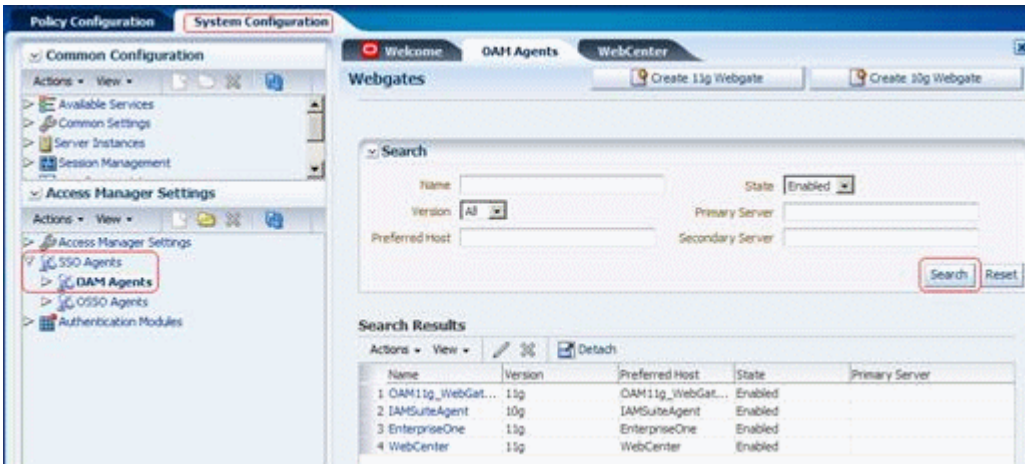
12. Repeat the above step and add the resource URL = /console and /em (if you plan to use SSO on the Admin Console and Enterprise Manager.)
13. Double-click the Protected Resource Policy.

    You should see the newly added resources listed.



14. Review all registered agents.
15. Select the **System Configuration** tab.
16. Open the Access Manager Settings section and open the **SSO Agents** option.
17. Double-click **OAM Agents,** and then click the **Search** button.

    The system displays a list of registered agents.



18. The agent registration creates a cwallet.sso and ObAccessClient.xml file.
19. Copy these two files to the WebCenter server:

    <MW_HOME>/user_projects/domain/OAMDomain/output/<Agent_name> location

    <MW_Home>Oracle_
    WT1/instances/instance1/config/OHS/ohs1/webgate/config directory

    A system property tells WebCenter that the application is configured in SSO mode and some special handling is required.
20. To set this property, edit the *setDomainEnv.sh* (.cmd) script located in your <domain>/bin directory, and add an entry similar to the following at the end of the file:

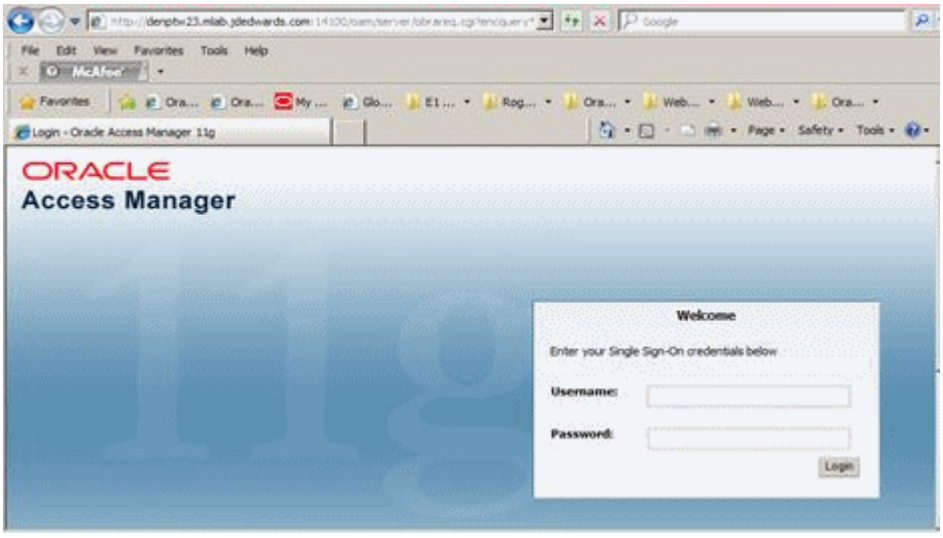
    EXTRA_JAVA_PROPERTIES="-Doracle.webcenter.spaces.osso=true ${EXTRA_
    JAVA_PROPERTIES}"

    export EXTRA_JAVA_PROPERTIES
21. After changing the property, restart all the WebCenter Services: Admin Server, WC_Spaces server.
22. Stop and restart the Oracle HTTP server process using OPMN:
    - On Windows, open the Windows Services and stop and restart the Oracle HTTAP server process.
    - On Unix/Linux, go to <MW_Home>/<oid_instance_name>/bin and enter these commands:

      ./opmnctl stopall

      ./opmnctl startall
23. Test your SSO with the WebCenter URL:

    http://denptw21.mlab.jdedwards.com:7777/webcenter
    The SSO process switches to the Oracle Access Manager and display the SSO page.



24. Log in with your WebCenter user name and password.

4

JD Edwards EnterpriseOne HTML Server

This chapter contains these topics:

4.1 Understanding JD Edwards EnterpriseOne HTML Server

The JD Edwards EnterpriseOne HTML server is a WebLogic server. This server works with the OAM to ensure that SSO credentials are valid. When valid SSO credentials are entered, the user is granted access to JD Edwards EnterpriseOne.

When you download the software from Oracle Technology Network (OTN) note the directories to which you downloaded the software and replace the directory location specified in this chapter with your directory locations. This chapter also specifies executable files for a Windows platform. Be sure to install the executable files for your platform.

Note: The JD Edwards EnterpriseOne HTML server is installed on a different server than the OAM/OID server.

4.2 Installing SOA Suite 11g

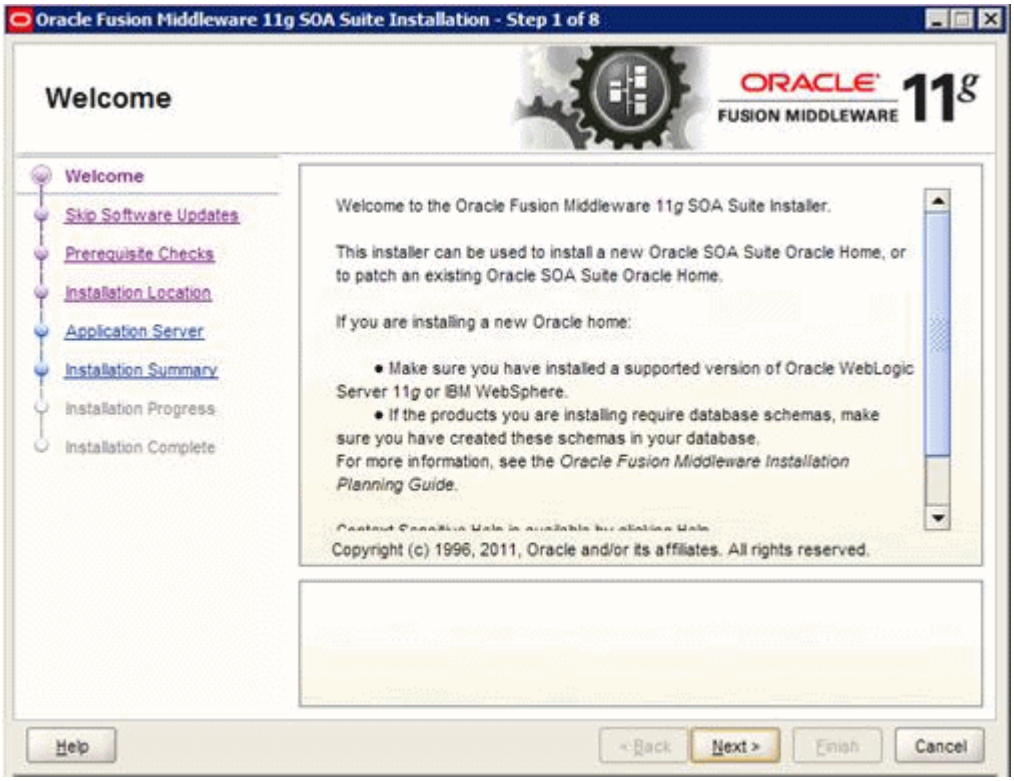
You install SOA Suite 11g, version 11.1.1.5. You use the installer to download the Oracle Fusion Middleware 11g SOA Suite.

Prerequisites

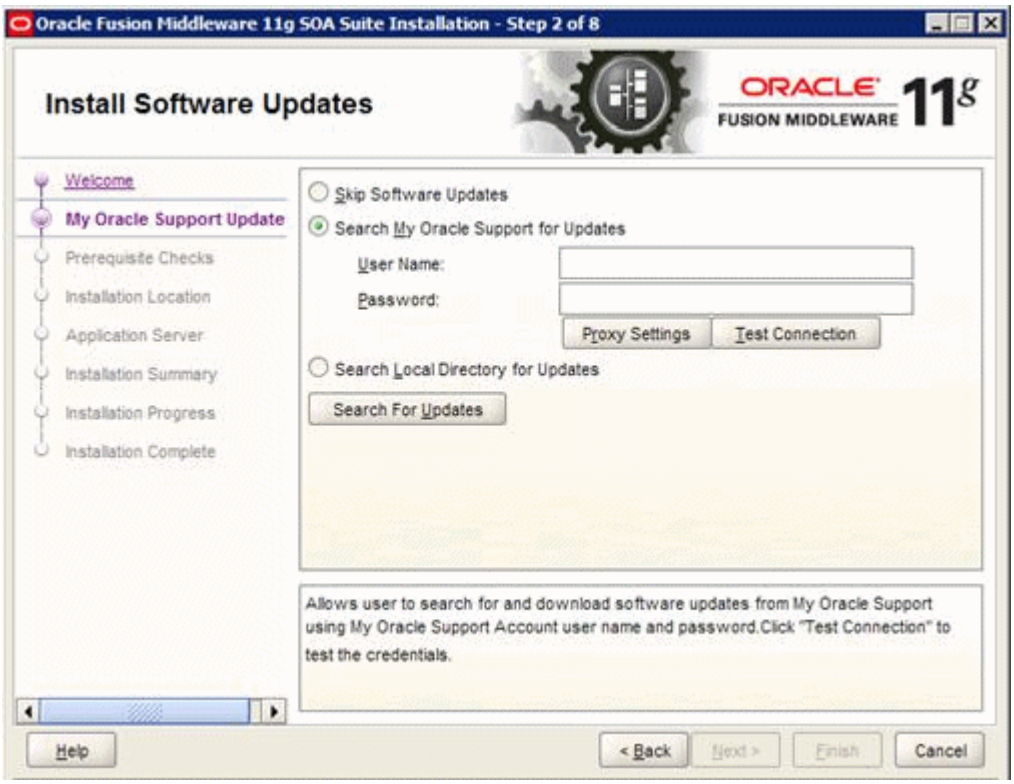
- Install WebLogic Server 10.3.5. See Appendix B, "Installing WebLogic Server."
- Download the Oracle Fusion Middleware 11g SOA Suite.

Use these steps to install Oracle SOA Suite 11.1.1.5.0

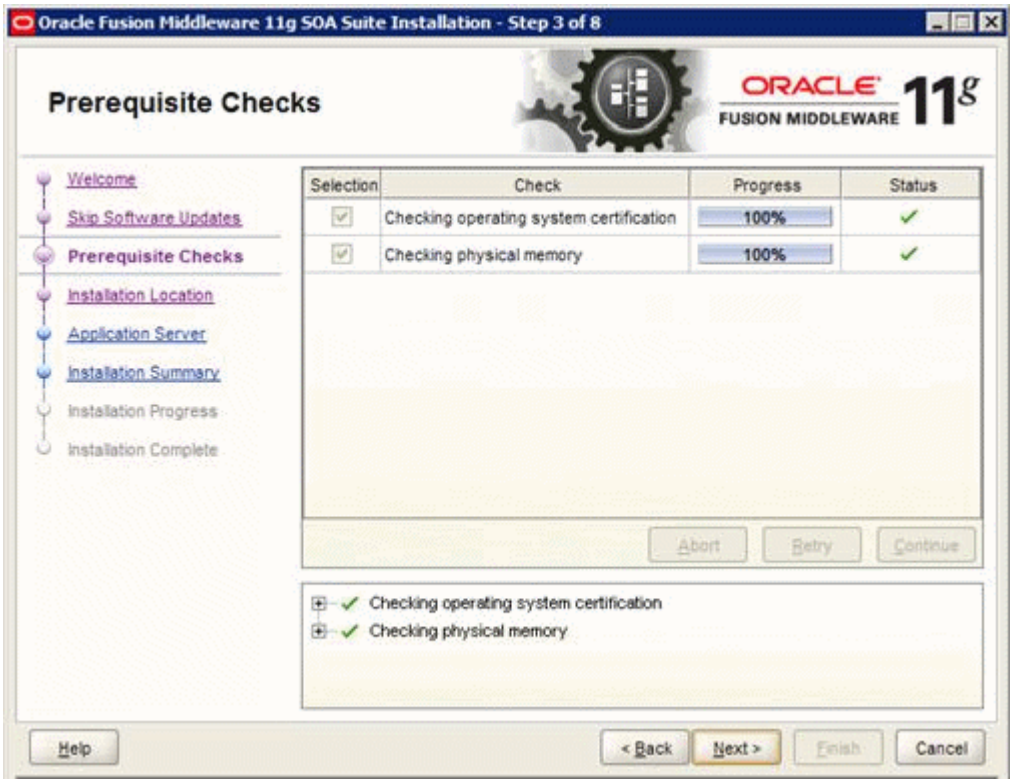
1. Launch the installer:
   - On Windows: *setup.exe* with **Run as administrator** option.
   - On Unix: *./runInstaller* as a non-root user.
2. On the Welcome page, click **Next**.



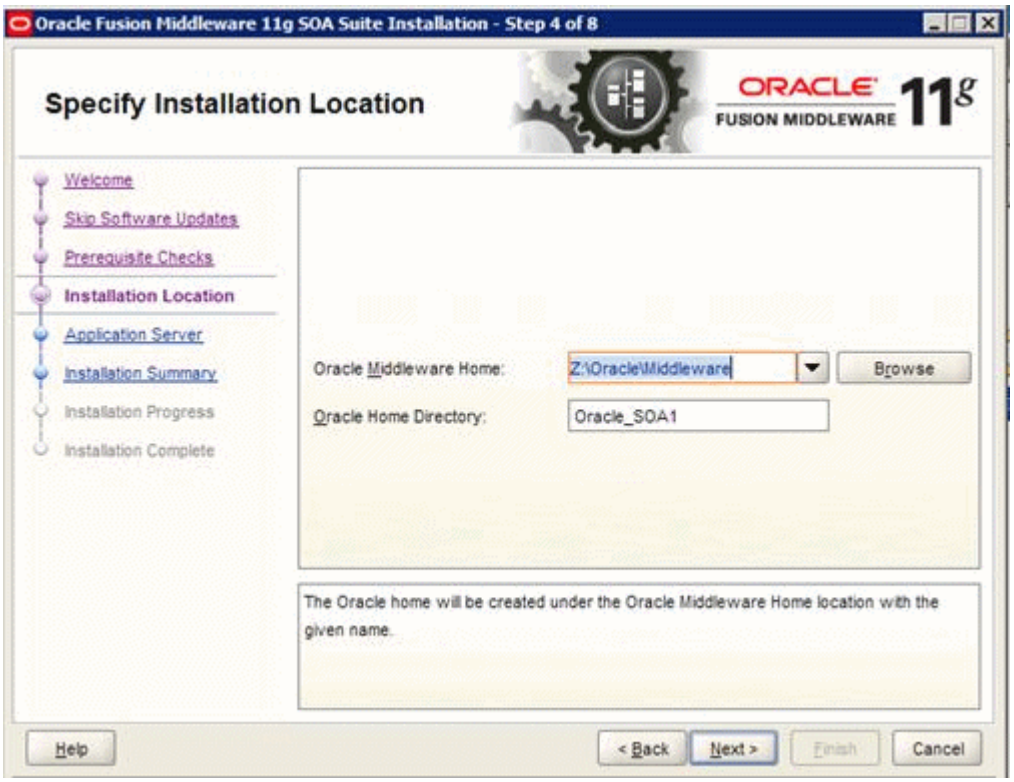
3. Select the appropriate update option for your company.



4. The installer performs prerequisite checks.

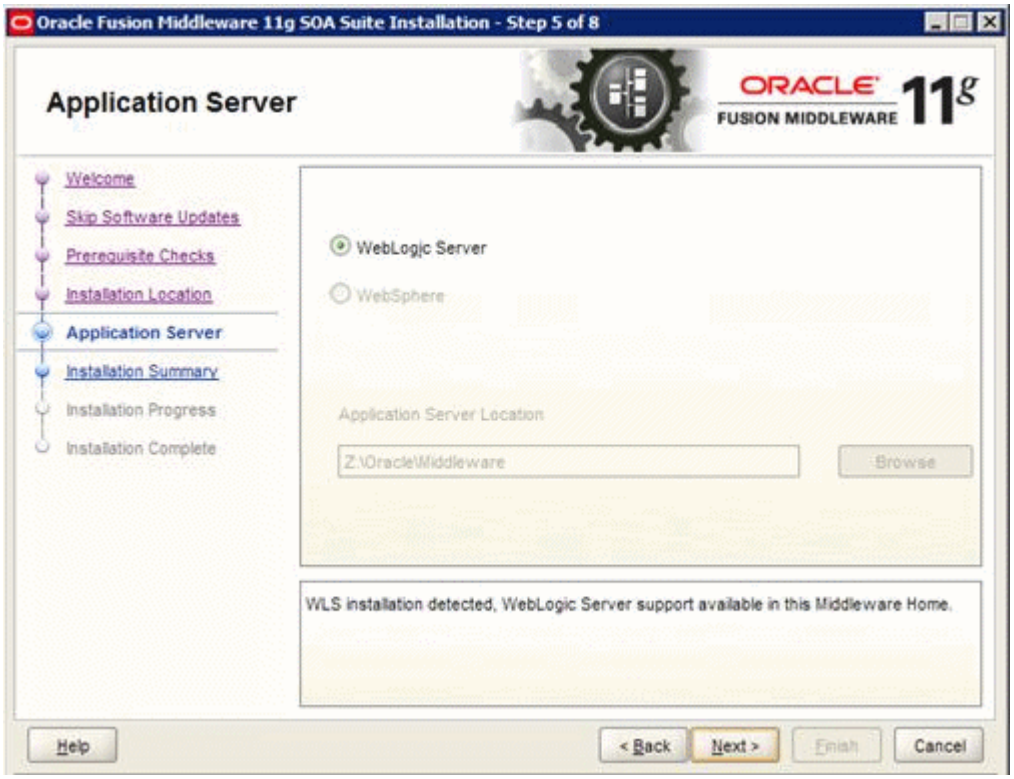


5. Enter the Middleware Home and a SOA Home Directory.

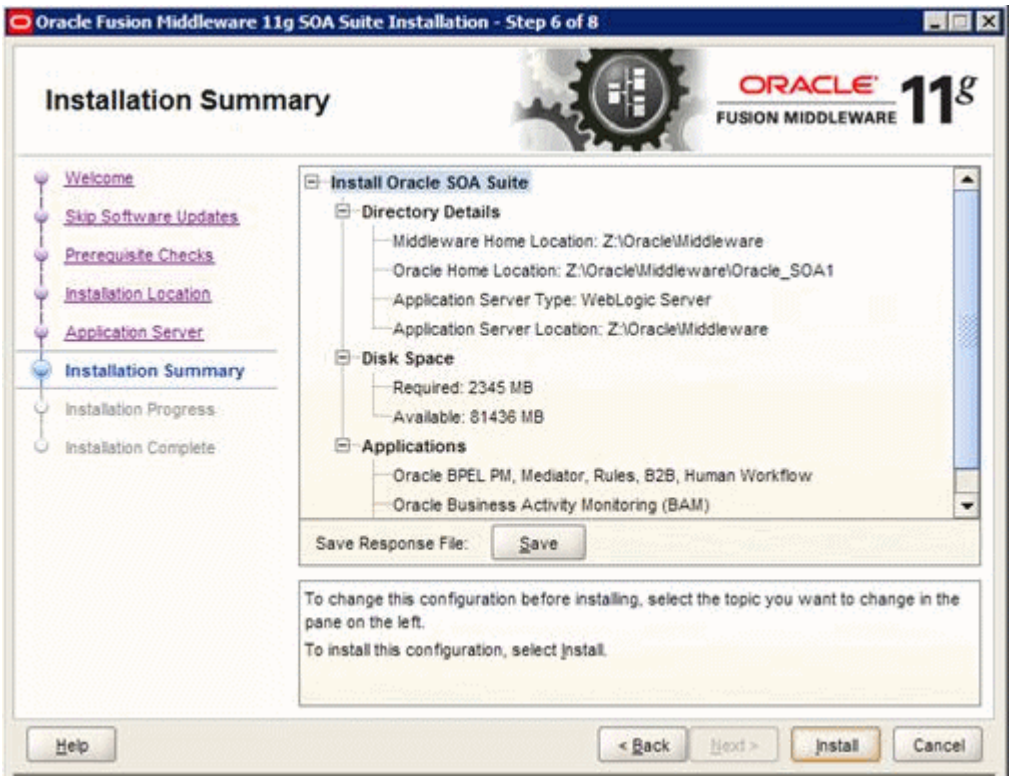


6. Select WebLogic as the application server.

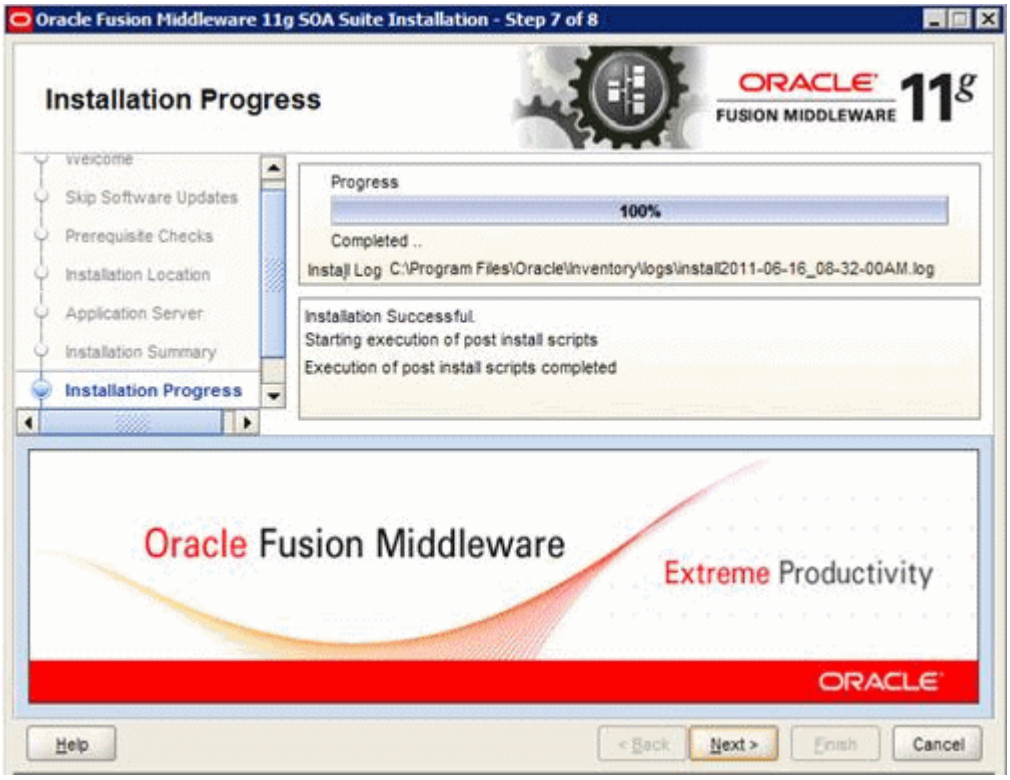
   EnterpriseOne does not support the configuration with WebSphere Application Server.



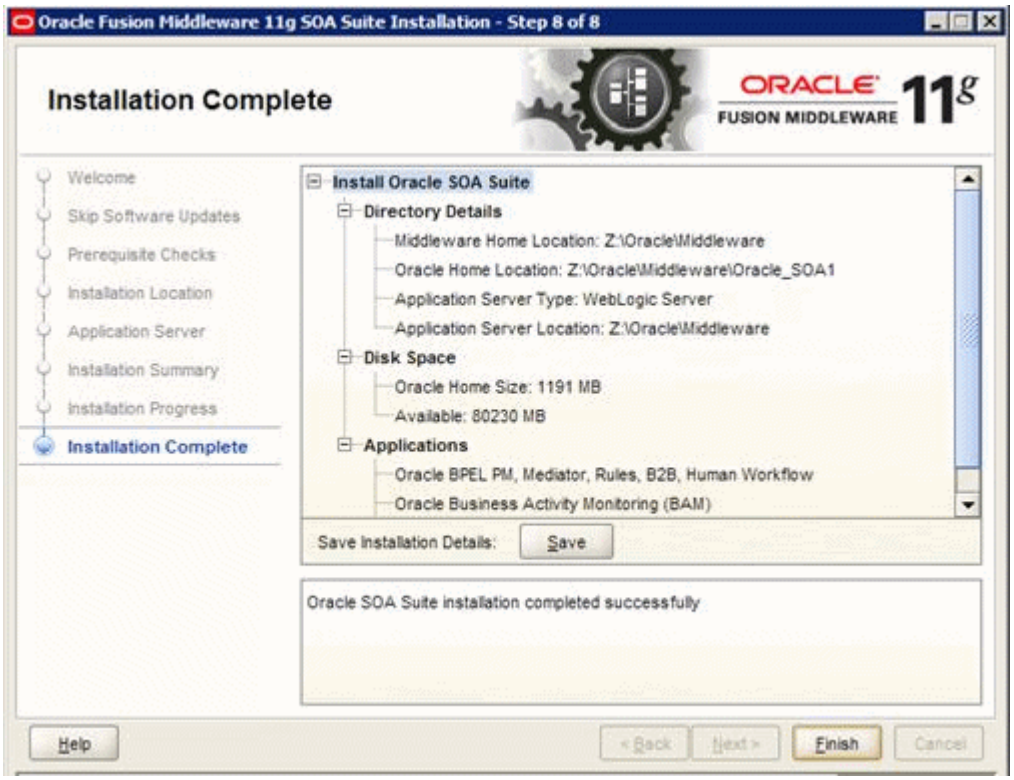
7. Review the Installation Summary.



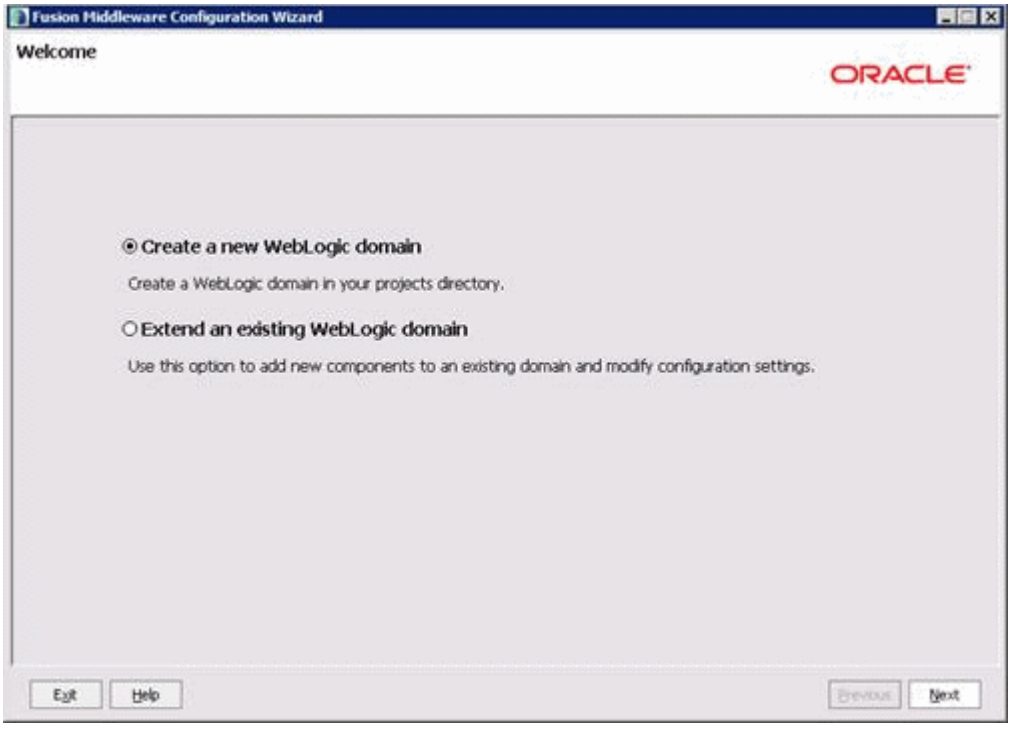
8. Click **Next** when the installation process is completed.



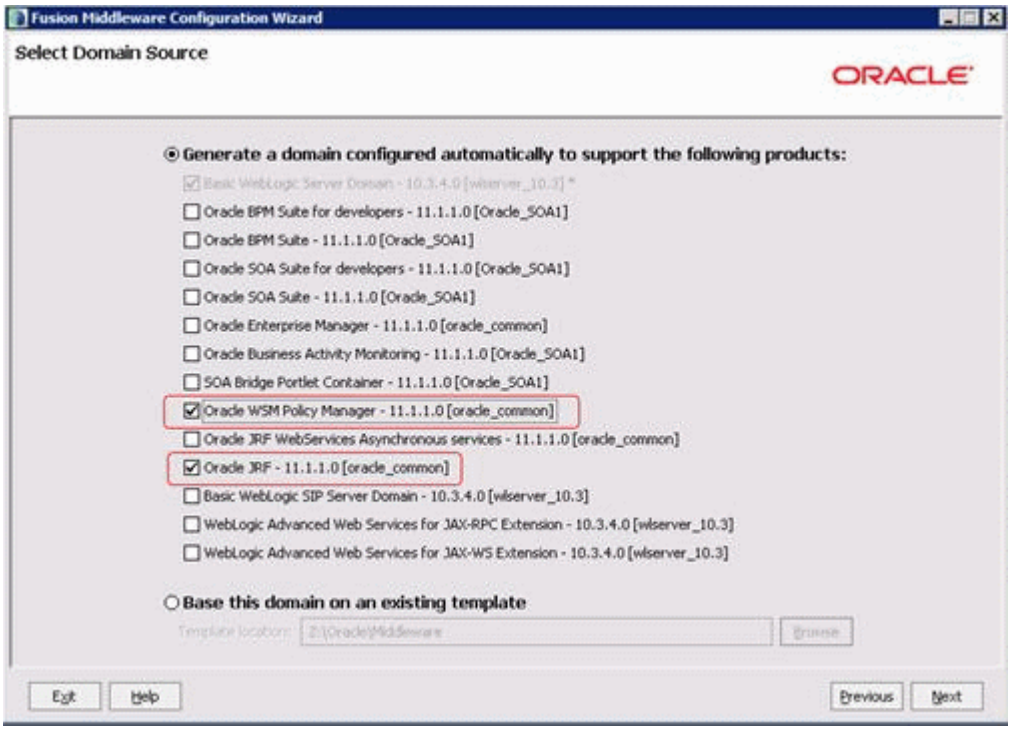
9. Click **Finish** to exit the installer.



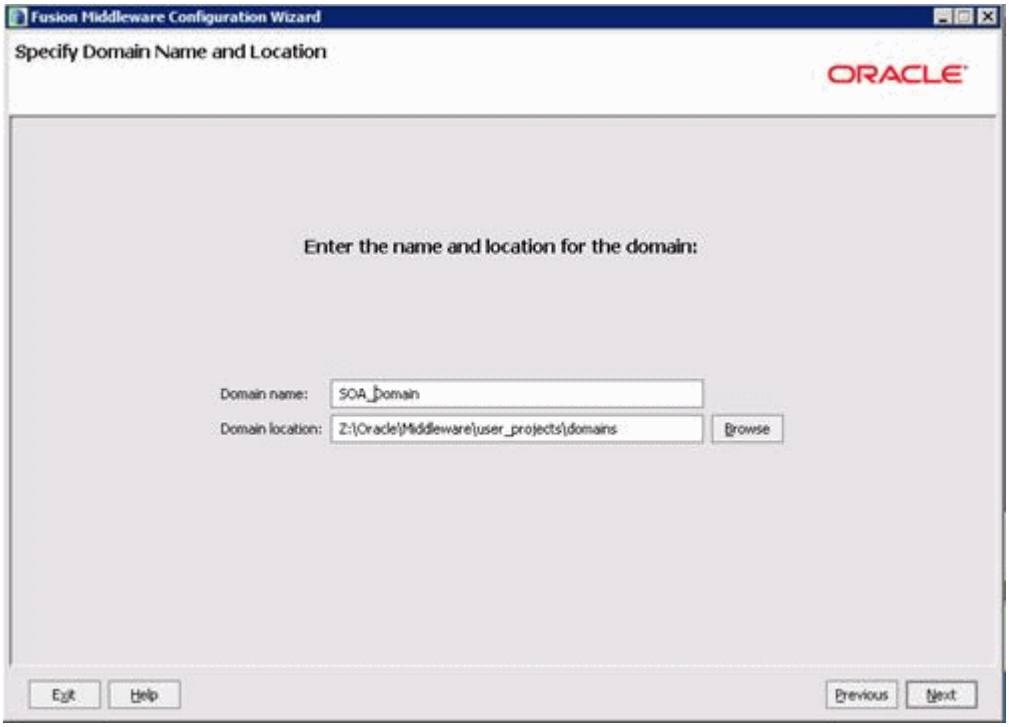
10. Launch the Domain Configuration Wizard (config.cmd or config.sh) from <MW_Home>/Oracle_SOA/common/bin/.



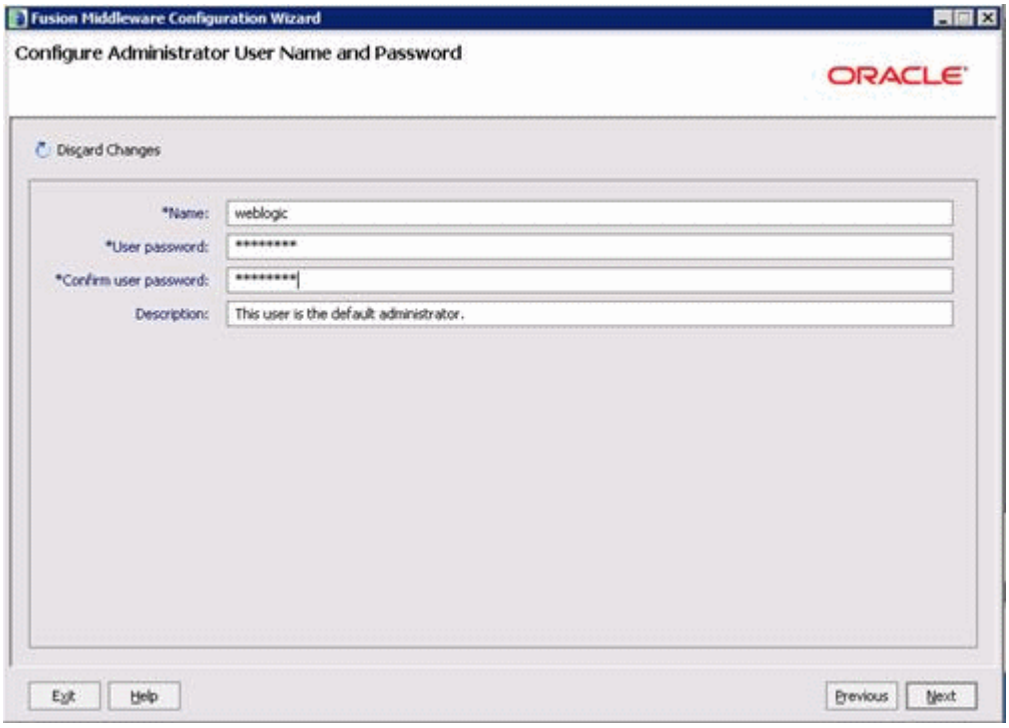
11. Select Oracle WSM Policy Manager-11.1.1.0 and Oracle JRF-11.1.1.0 options.



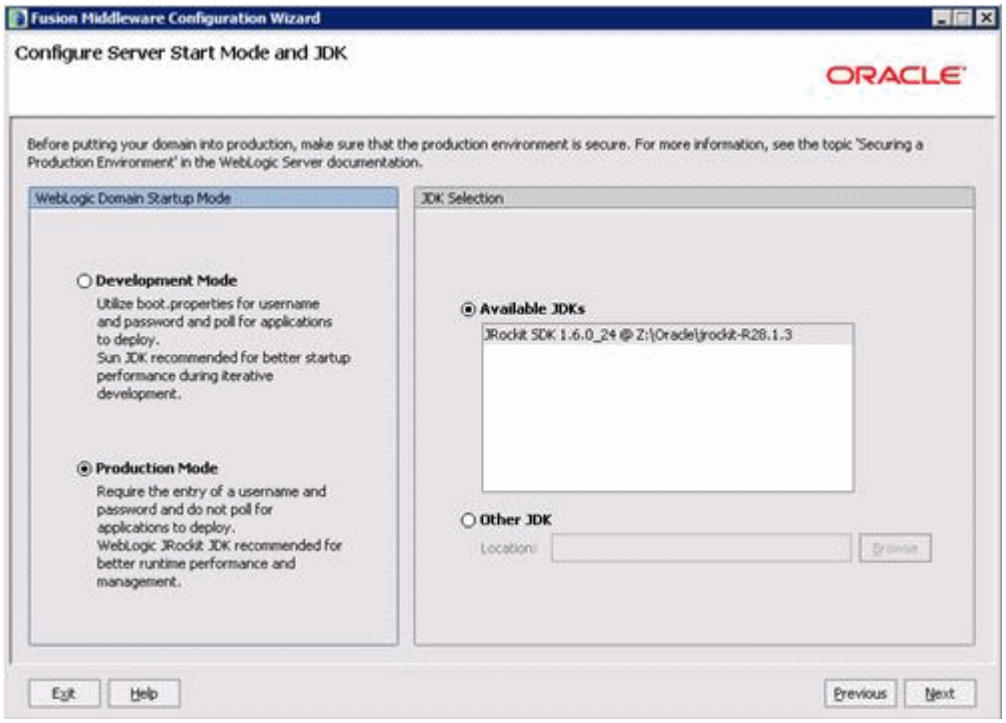
12. Enter a domain name.



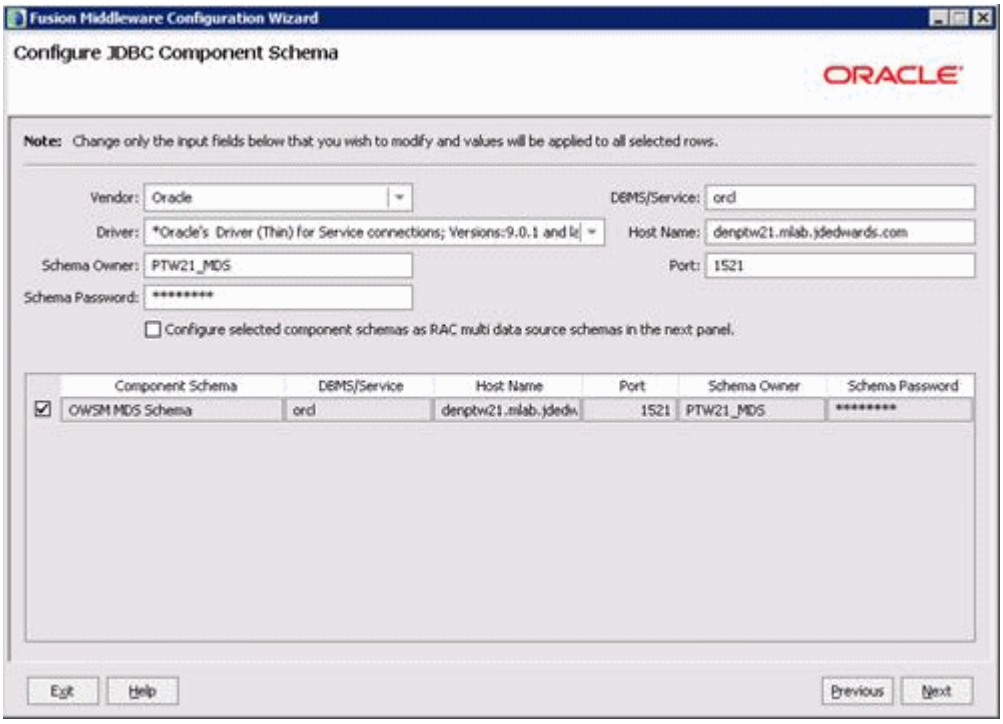
13. Enter the Administrator User and Password.



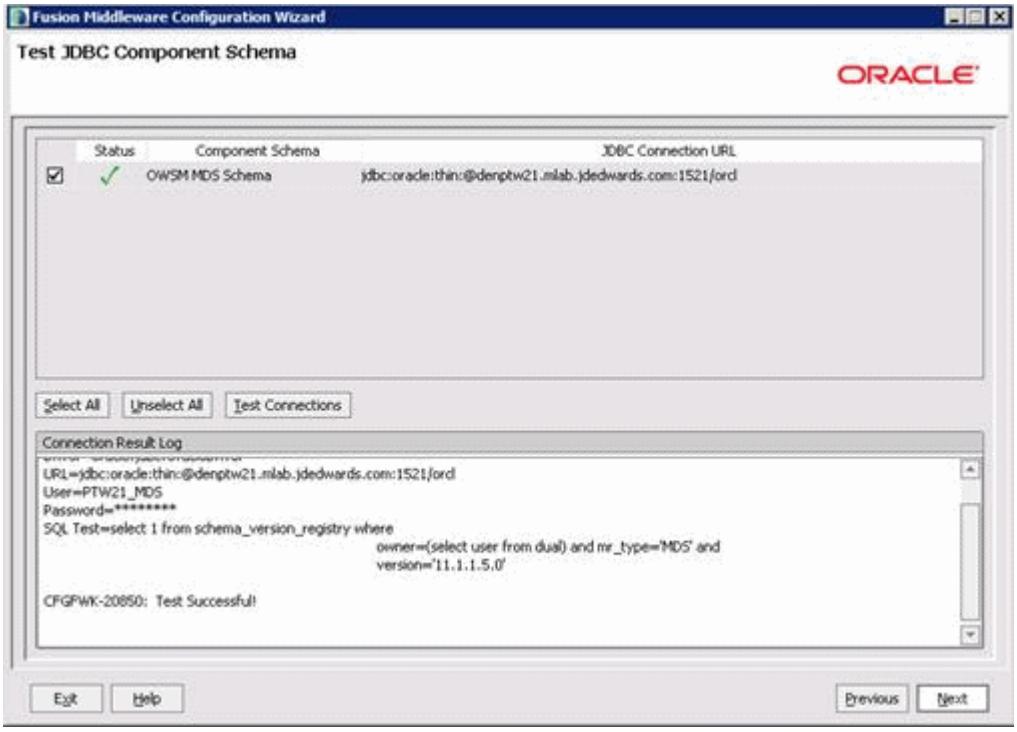
14. Select **Production Mode** and verify the JDK location.



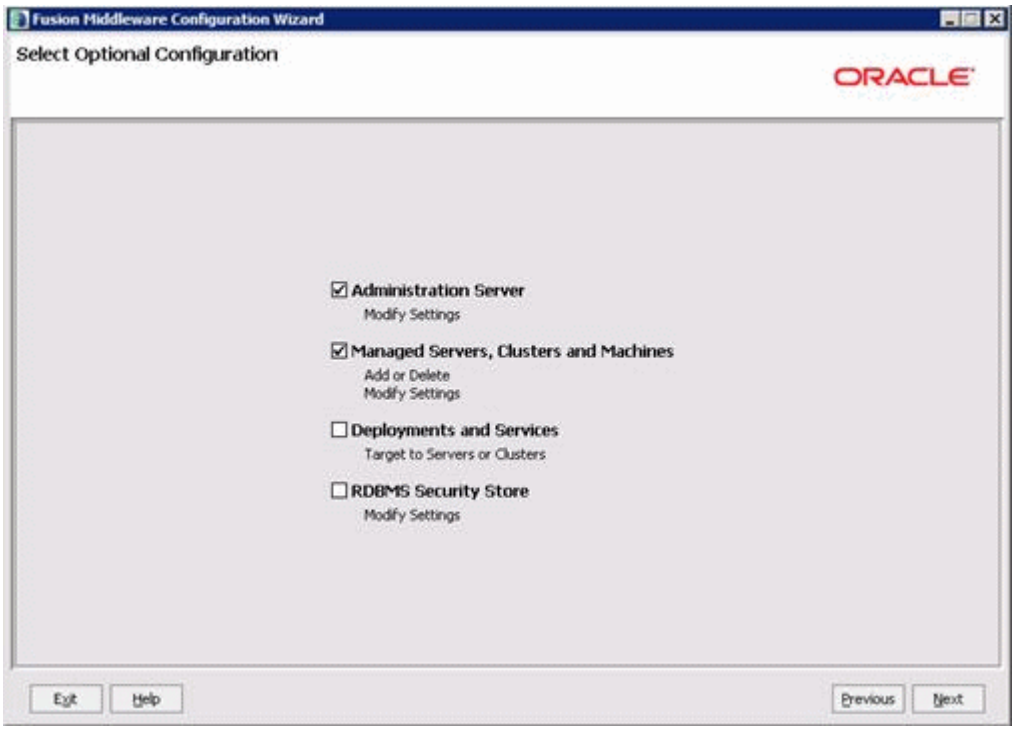
15. Enter the JDBC Schema information.



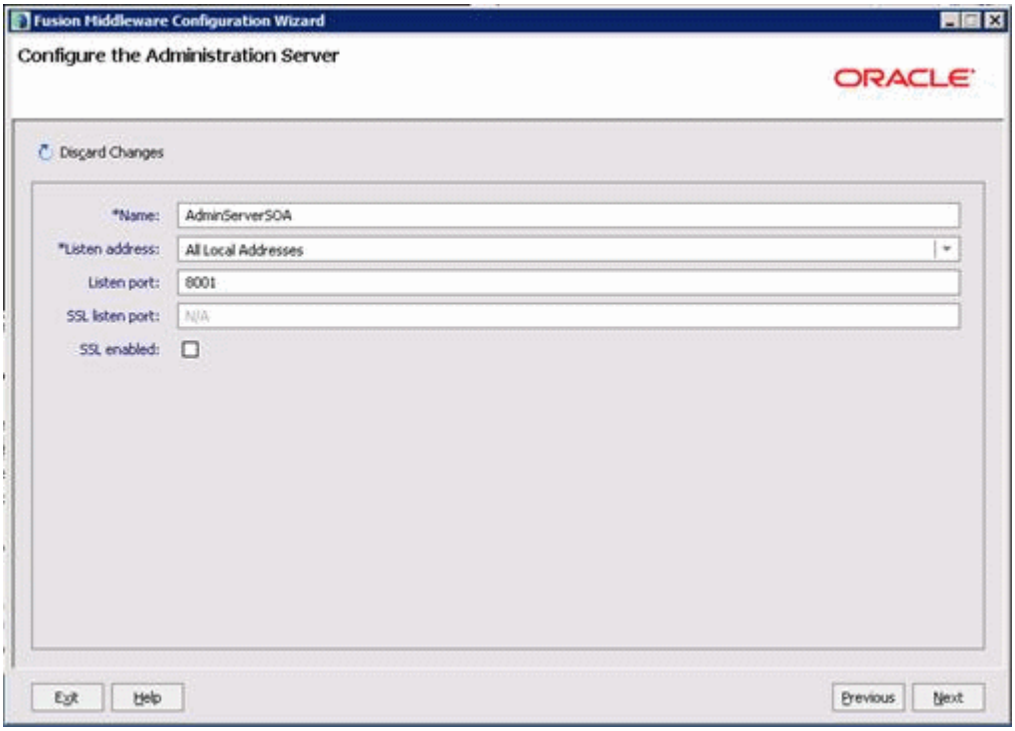
16. Verify the schema connections.



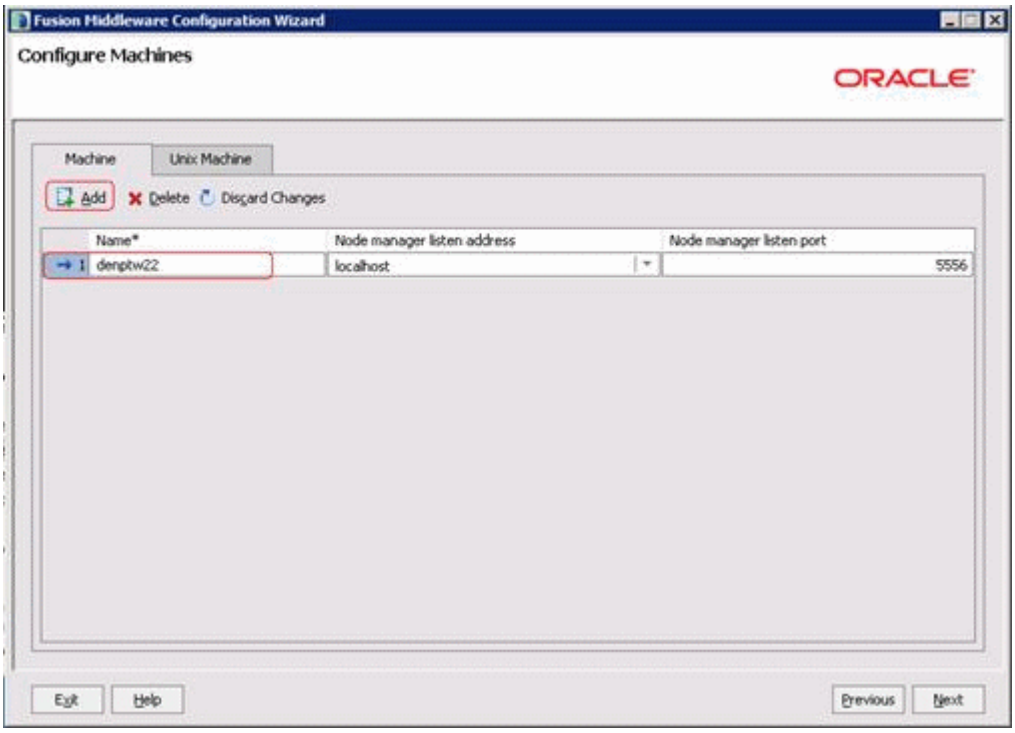
17. Select Administration Server and Managed Servers, Clusters and Machines options.



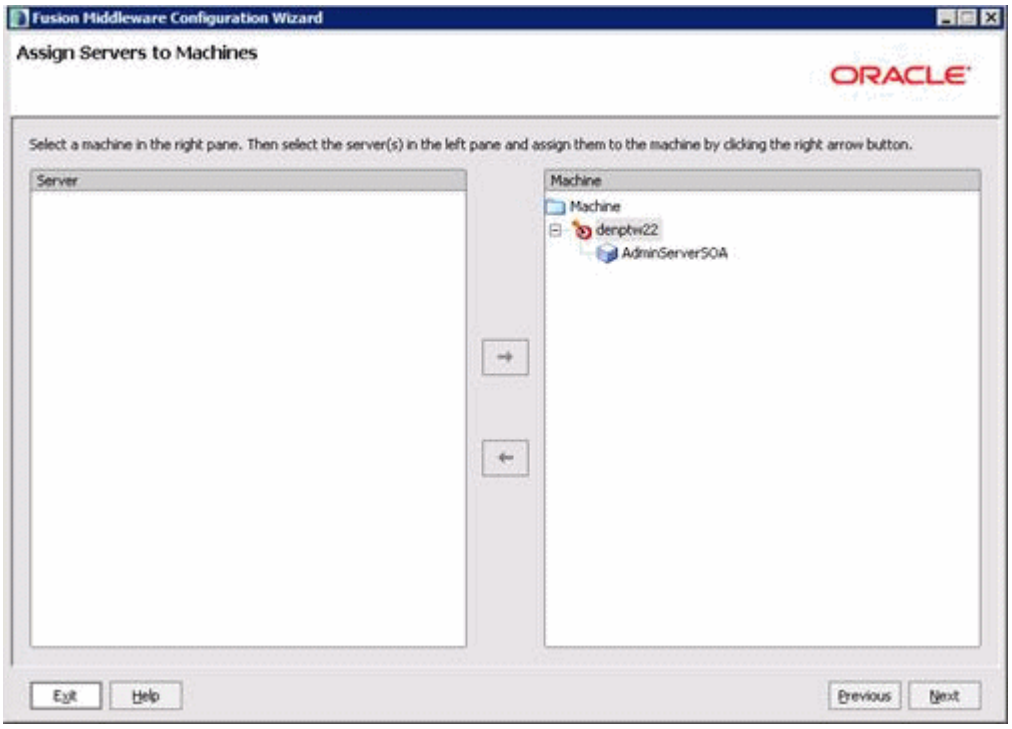
18. Enter the Administration Server Name and Port.



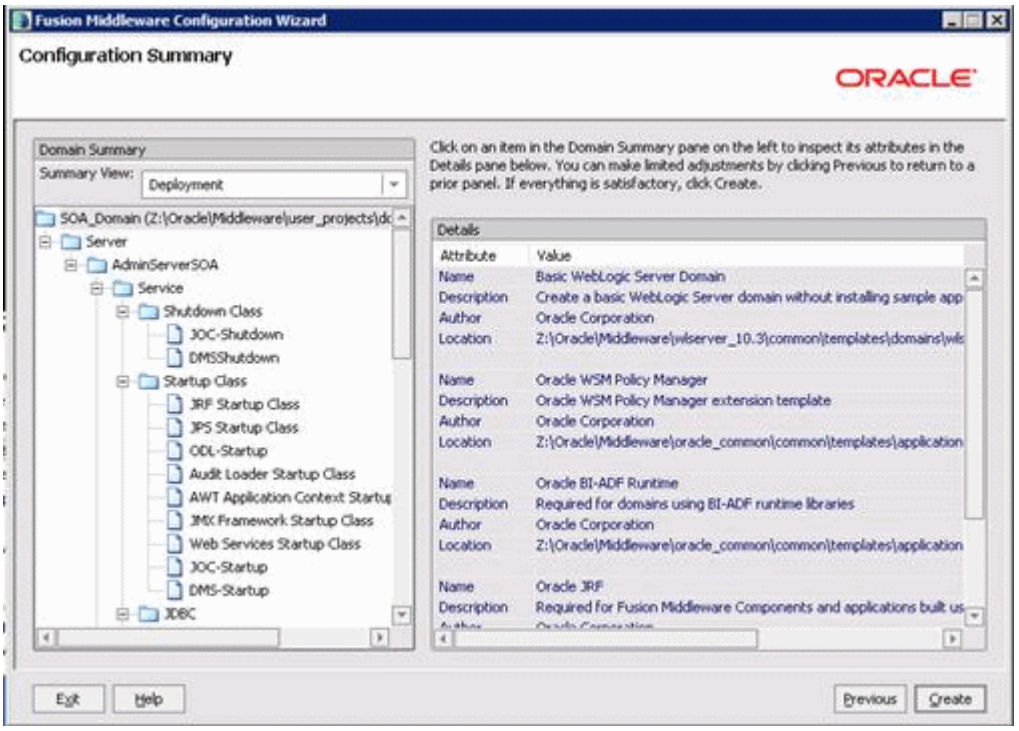
19. Click **Next** on the Configure Managed Servers page.
20. Click **Next** on the Configure Clusters page.
21. Add a logic machine name.



22. Assign a server to the machines.



23. Review the Configuration Summary and Click **Create**.



24. Click **Done** and start the Administration Server.

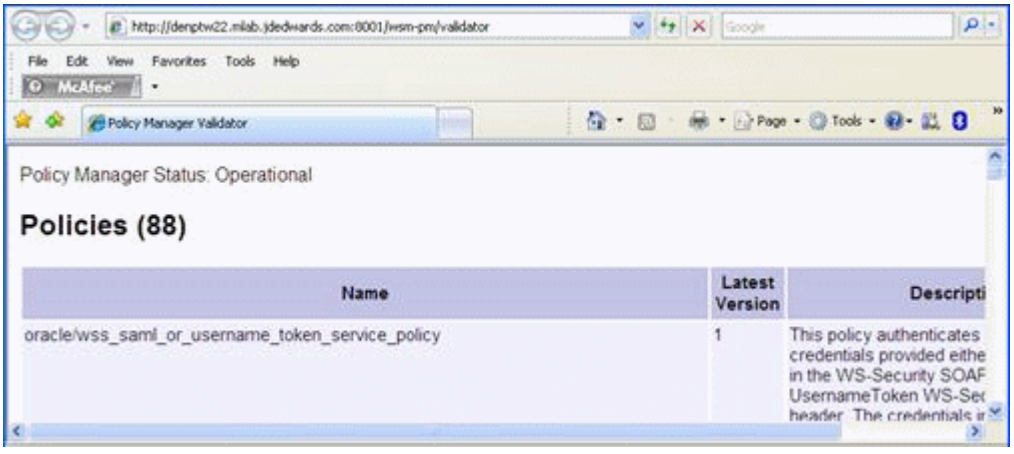
    Refer to Appendix B on how to start and stop the Administration Server.

4.2.1 Verify the Installation

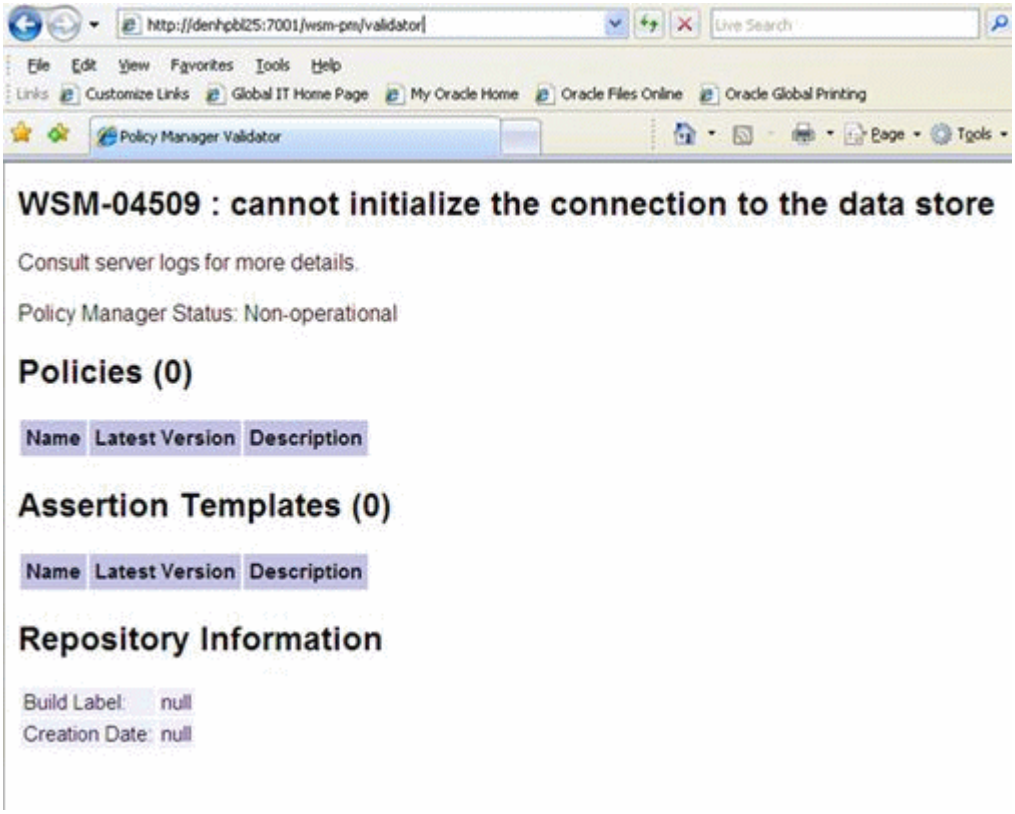
You must have the Administration Server running.

1. Open an internet browser, and enter the following URL:

   `http://server:port:/wsm-pm/validator`
2. Enter the Admin user and password.
3. The Policy Manager Status screen appears.



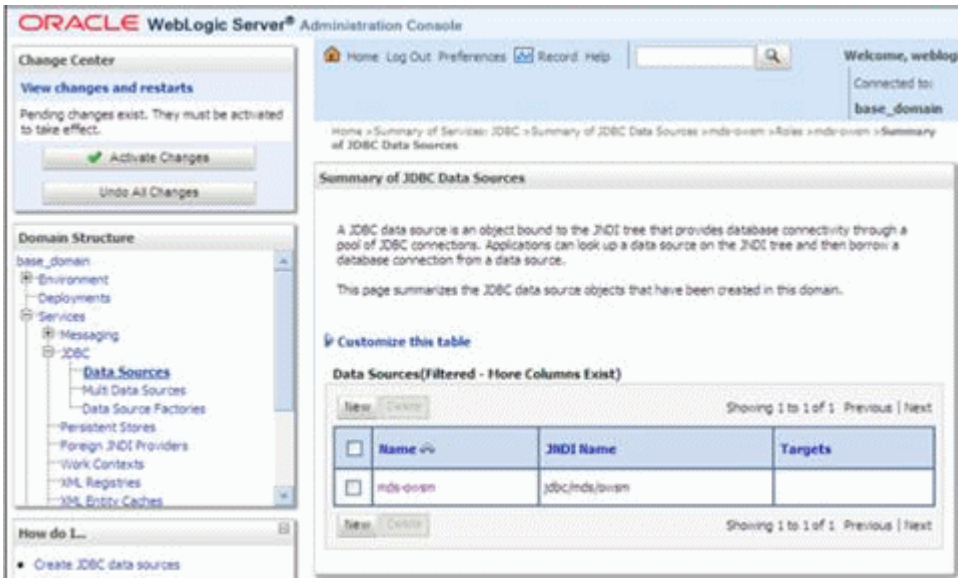
4. If the following error message occurs, use the steps in the next task to resolve the error.



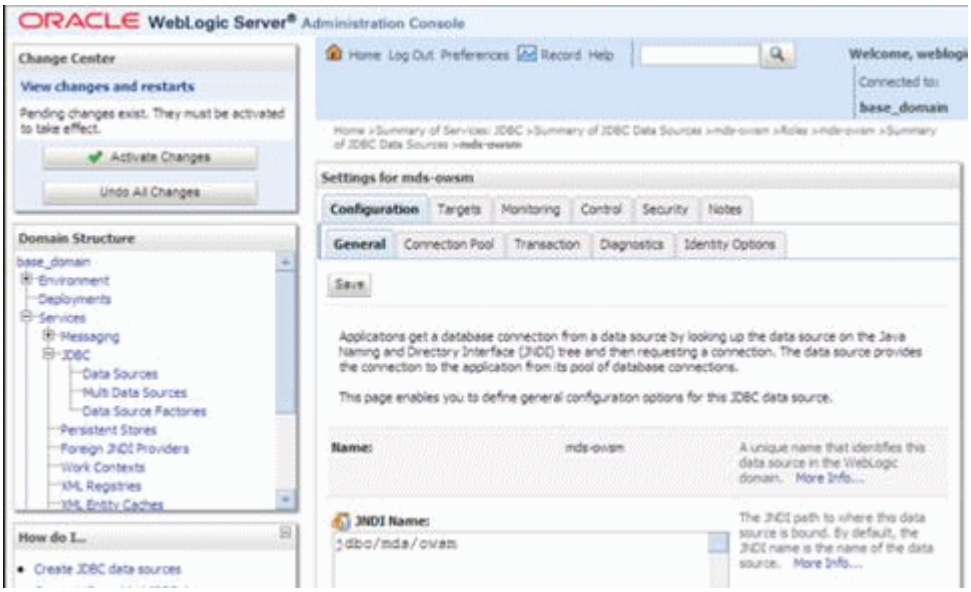
Use these steps to fix errors:

1. Access Data Sources using this path from the left navigation:

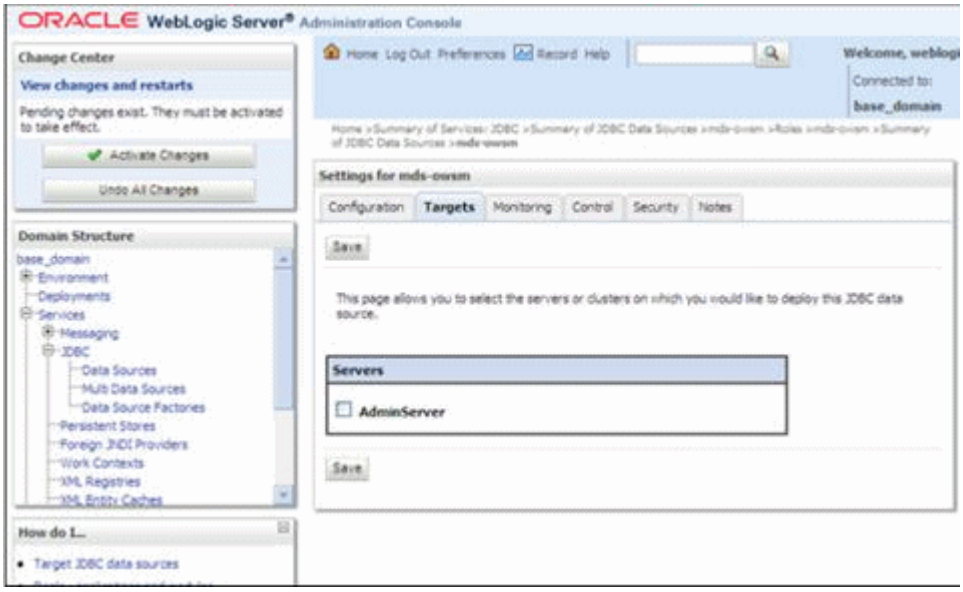
   base_domain -> Services -> JDBC -> Data Sources



2. Click the **mds-owsm** link.
3. On the Settings for mds-owsm page, click the **Targets** tab.



4. On the Targets page, select *AdminServer*, and then click **Save**.



5. Activate the change and restart the WLS Admin Server.
6. Launch the URL again.

4.3 Installing Oracle WebGate

Next, you install Oracle WebGate 11.1.1.5.0.

Oracle HTTP Server WebGate is a Web server plug-in that is shipped out-of-the-box with Oracle Access Manager. The Oracle HTTP Server WebGate intercepts HTTP requests from users for Web resources and forwards them to the Access Server for authentication and authorization. Oracle HTTP Server WebGate installation packages are found on media and virtual media that is separate from the core components.

Prerequisites

- You must have Oracle HTTP Server installed and configured. See Appendix C, "Installing Oracle HTTP Server."
- If you are installing Oracle HTTP Server 11g WebGate for Oracle Access Manager on a Linux or Solaris operating system, you must download and install third-party GCC libraries on your machine.

You can download the appropriate GCC library from the following third-party website:

http://gcc.gnu.org/

Operating System	Architecture	GCC Libraries	Required Library Version
Linux 64-bit	x64	libgcc_s.so.1 libstdc++.so.6	3.4.6
Solaris 64-bit	SPARC	libgcc_s.so.1 libstdc++.so.5	3.3.2

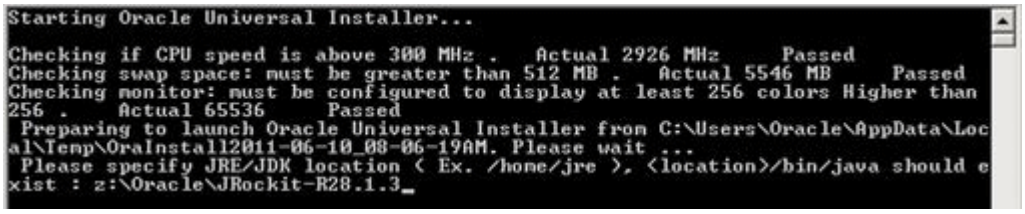
- If you are using Windows 2008 64-bit operating systems, you must install Microsoft Visual C++ 2005 libraries on the machine hosting the Oracle HTTP Server 11g WebGate.

The libraries are included in the Microsoft Visual C++ 2005 SP1 Redistributable Package (x64), which can be downloaded from the following website:

http://www.microsoft.com/DownLoads/details.aspx?familyid=EB4EBE2D-33C0-4A47-9DD4-B9A6D7BD44DA&displaylang=en

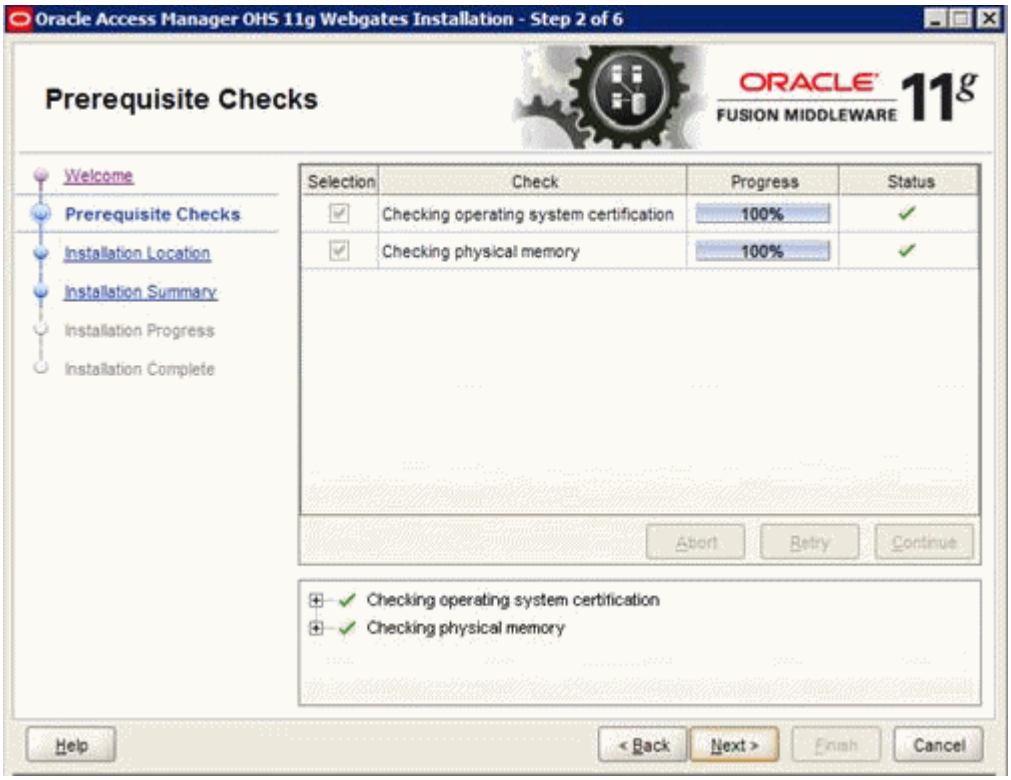
Use these steps to install Oracle HTTP 11g WebGate.

1. Download and unzip ofm_oam_webgates_generic_11.1.1.5.0_disk1_1of1.zip.
2. Launch the installer.
   - On Windows: *setup.exe* with **Run as administrator** option
   - On UNIX: *./RunInstaller* as a non-root user
3. Specify JRE/JDK location.

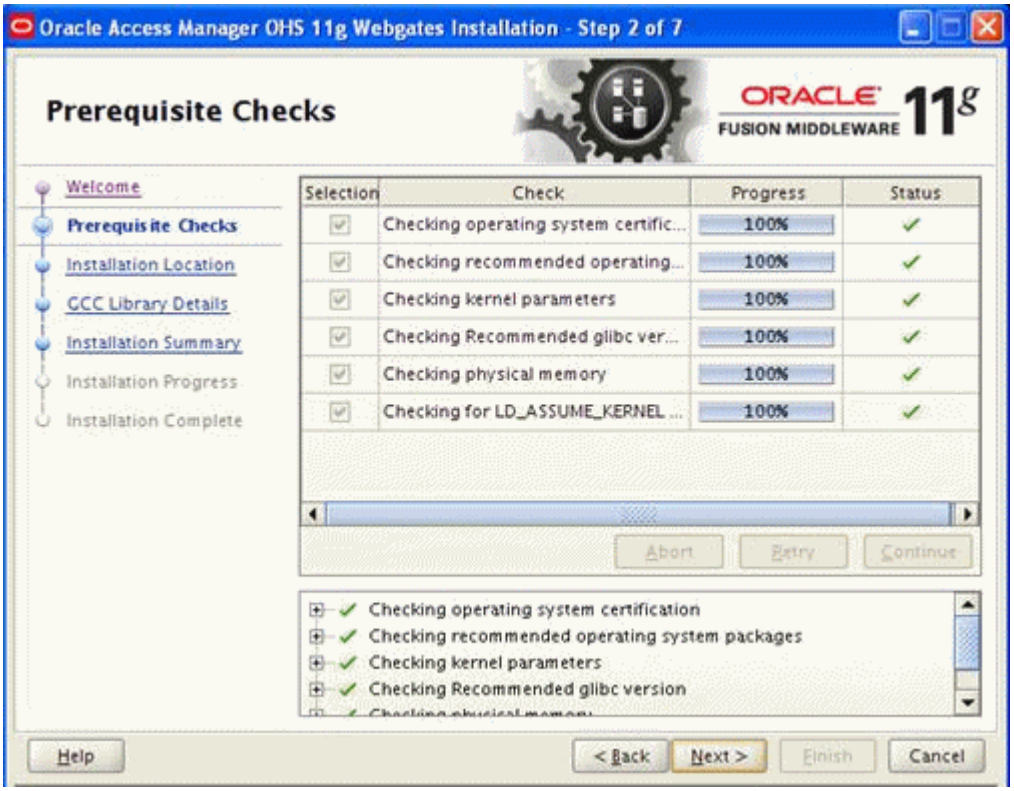


4. Click **Next** on the Welcome page.

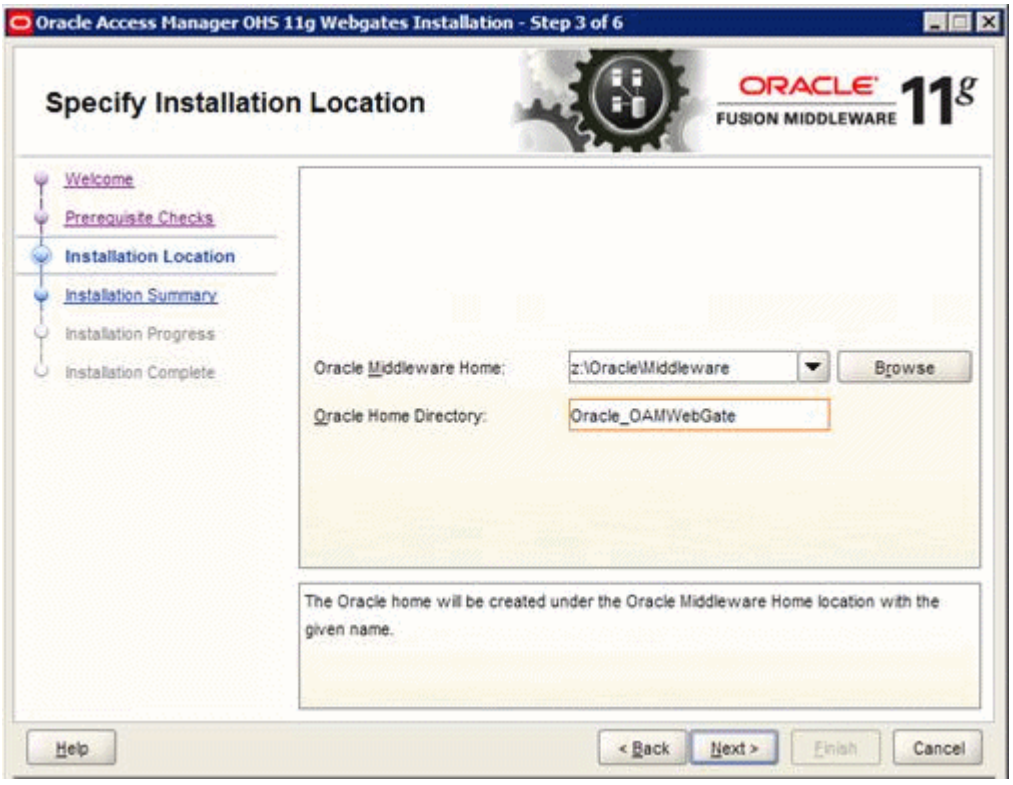
   Oracle HTTP WebGate supports Oracle HTTP version 11.1.1.2 or 11.1.1.3. EnterpriseOne configuration supports version 11.1.1.5. See Appendix A, "Create Database Schemas with Repository Creation Utility" to upgrade to version 11.1.1.5.
5. The installer performs prerequisite checks.



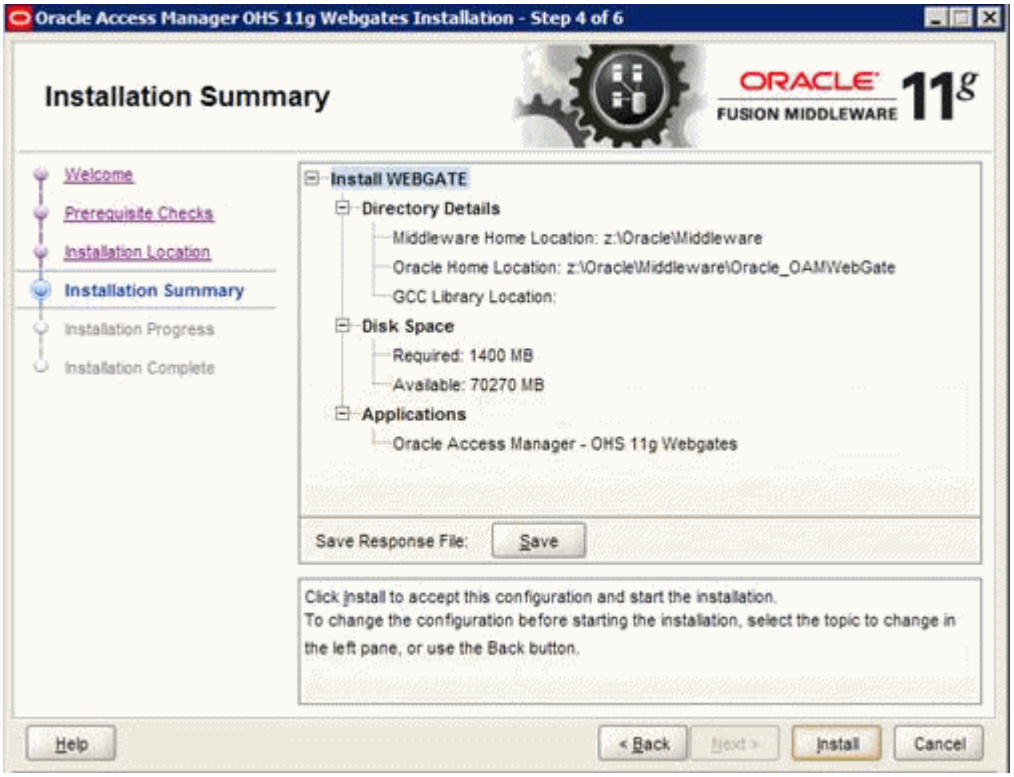
This image shows the prerequisite checks on Linux operating system.



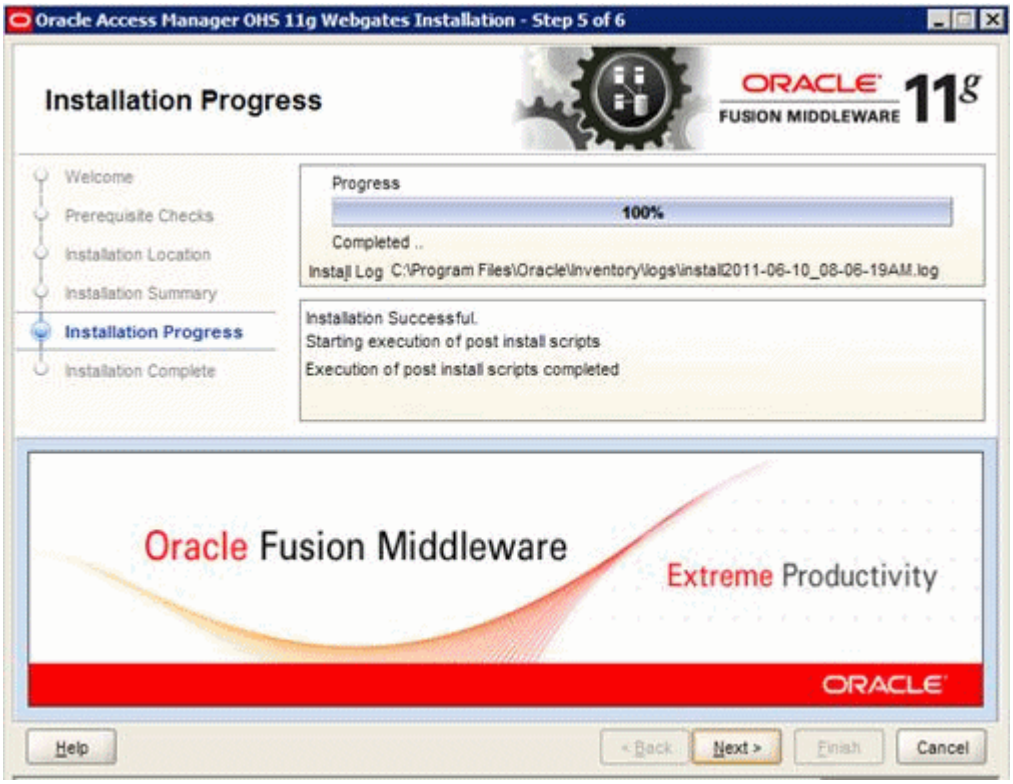
6. Specify the Middleware Home and WebGate Home Directory.



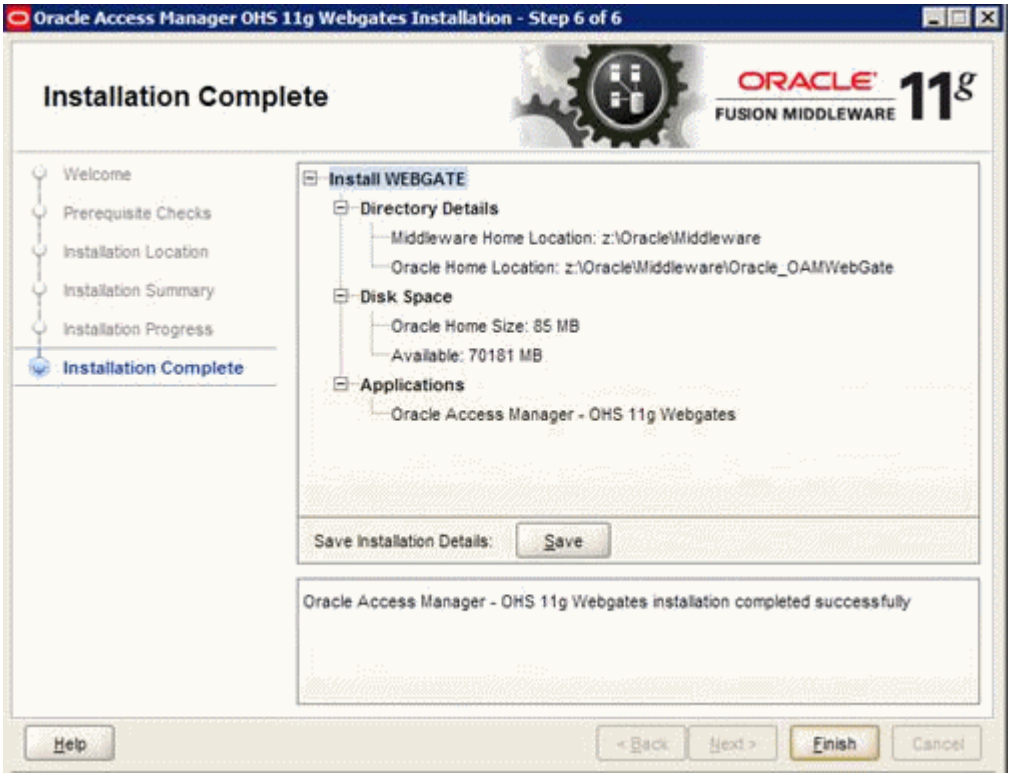
7. Review the installation Summary.



8. Click **Next** when the installation is completed.



9. Click **Finish** to exist the installer.



4.3.1 Post-Installation Steps

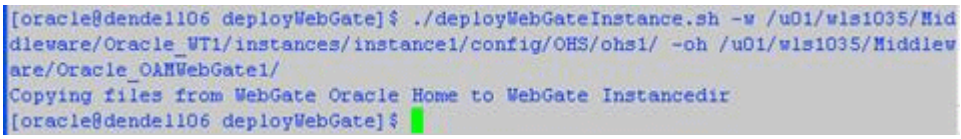
You must complete the following steps after installing Oracle HTTP Server 11g WebGate for Oracle Access Manager:

1. Move to the following directory under your Oracle Home for WebGate:
   - On UNIX operating systems:

     <webgate_home>/webgate/ohs/tools/deployWebGate
   - On Windows operating systems:

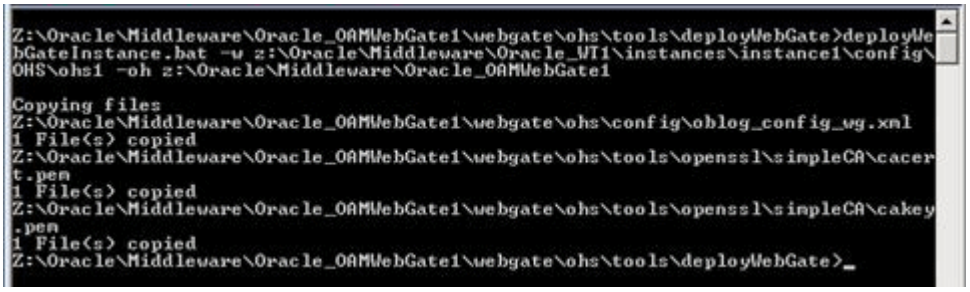
     <webgate_home>\webgate\ohs\tools\deployWebGate
2. On the command line, run the following command to copy the required bits of agent from the Webgate_Home directory to the WebGate Instance location:
   - On UNIX operating systems:

     ./deployWebgateInstance.sh -w <Webgate_Instance_Directory> -oh <Webgate_Oracle_Home>



   - On Windows operating systems:

     deployWebgateInstance.bat -w <Webgate_Instance_Directory> -oh <Webgate_Oracle_Home>



     Where <Webgate_Oracle_Home> is the directory where you have installed Oracle HTTP Server WebGate and created as the Oracle Home for WebGate.

     For example: <MW_Home>/Oracle_OAMWebGate1

     The <Webgate_Instance_Directory> is the location of Webgate Instance Home, which is same as the Instance Home of Oracle HTTP Server.

     For example: <MW_Home>/Oracle_WT1/instances/instance1/config/OHS/ohs1
3. Run the following command to ensure that the LD_LIBRARY_PATH variable contains <Oracle_Home_for_Oracle_HTTP_Server>/lib
   - On UNIX operating systems:

     Export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:<Oracle_Home_for_Oracle_HTTP_Server>/lib
   - On Windows operating systems:

Set the <Webgate_Installation_Directory>\webgate\ohs\lib location in the PATH environment variable.

4. From your present working directory, move up one directory level:
   - On UNIX operating systems:

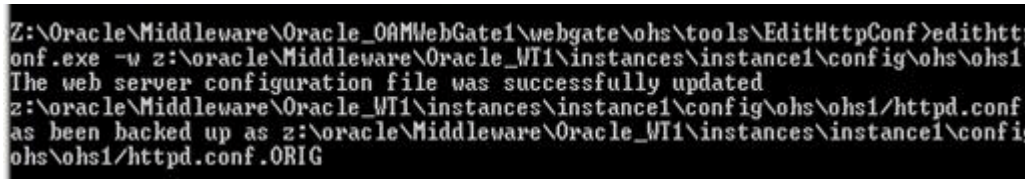
     <webgate_home>/webgate/ohs/tools/setup/InstallTools
   - On Windows operating systems:

     <webgate_home>\webgate\ohs/tools\editHttpConf
5. On the command line, run the following command to copy the apache_webgate.template from the Webgate_Home directory to the WebGate Instance location (renamed to webgate.conf) and update the httpd.conf file to add one line to include the name of webgate.conf
   - On UNIX operating systems:

     ./EditHttpConf -w <Webgate_Instance_Directory> [-oh <Webgate_Oracle_Home>] [-o <output_file>]

   - On Windows operating systems:

     EditHttpConf.exe -w <Webgate_Instance_Directory> [-oh <Webgate_Oracle_Home>] [-o <output_file>]



> **Note:** The [-oh <Webgate_Oracle_Home>] and [-o <output_file>] parameters are optional.

6. Verify the updated httpd.conf.

   The following line is added to the bottom of the file

   ```
   include "z:\oracle\Middleware\Oracle_
   WT1\instances\instance1\config\ohs\ohs1/webgate.conf"
   ```
7. Restart the Oracle HTTP server process.

   Run opmnctl (stopall and startall) from <MW_Home>\Oracle_WT1\instances\instance1\bin

4.4 Configuring the KeyStore Connection

This section discusses configuring the KeyStore connection for WebCenter and EnterpriseOne.

Prerequisites

Verify your Node Manger on your EnterpriseOne machine has the StartScriptEnable set to true:

- Open the NodeManager.properties file from NMW_HOME>/wlserver_10.3/common/nodemanager folder and enter the following:

  ```
  StartScriptEnable=true
  ```
- Restart Node Manager.

4.4.1 Generate the KeyStore from the Oracle WebCenter Server

Use these steps to generate the KeyStore.

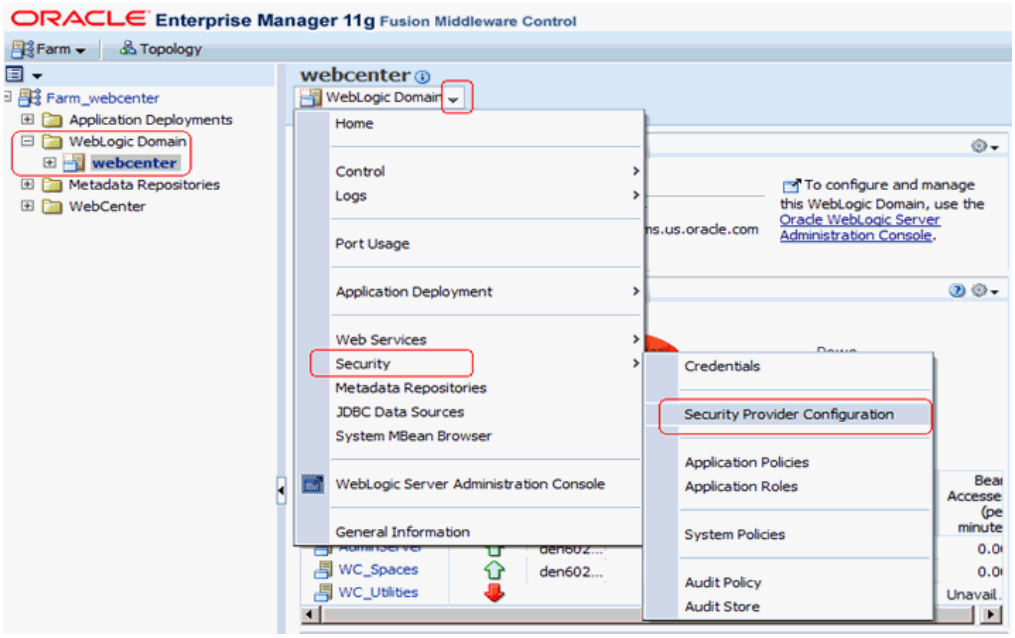
1. Log onto your WebCenter server.
2. From the <JDK_Home>/bin directory, enter the following:

   ```
   ./keytool -genkeypair -v -keyalg RSA -dname
   "cn+den60208jems,dc+us,dc=oracle,dc=com" -alias webcenter -keypass welcome1
   -keystore webcenter.jks -storepass welcome1 -validity 365
   -bash-3,2$ ./keytool -genkeypair -v -keyalg RSA -dname "cn=den60208jems,dc=us,
   dc=oracle,dc=com" -alias webenter -keypass welcome1 -keystore
   webcenter.jks -storepass welcom1 -validity 365
   Generating 1,024 bit RSA key pair and self-signed certificate (SHA1withRSA)
   with a validity of 365 days
         for: CN=den60208jems, DC=us, DC=oracle, DC=com
   [Storing webcenter.jks]
   ./keytool -exportcert -v -alias webcenter -keystore webcenter.jks -storepass
   welcome1 -rfc -file webcenter.cer
   -bash-3.2$ ./keytool -exportcert -v -alias webventer -keystore webventer.jks
   -storepass welcome1 -rfc -file webcenter.cer
   Certificate stored in file <webcenter.cer>
   ```
3. Copy the KeyStore files (keystore.jks and keystore.cer) to this location:

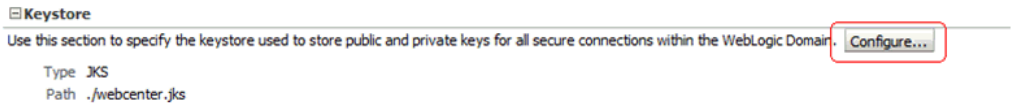
   <MW_HOME>user_projects/domains/<your_domain>/config/fmwconfig

   Note: If you launched the keytool from the JRockit/bin directory, then the KeyStore files will be generated in the same location.

4. Sign on to WebCenter Enterprise Manager console, select WebLogic Domain > Security > Security Provide Configuration.



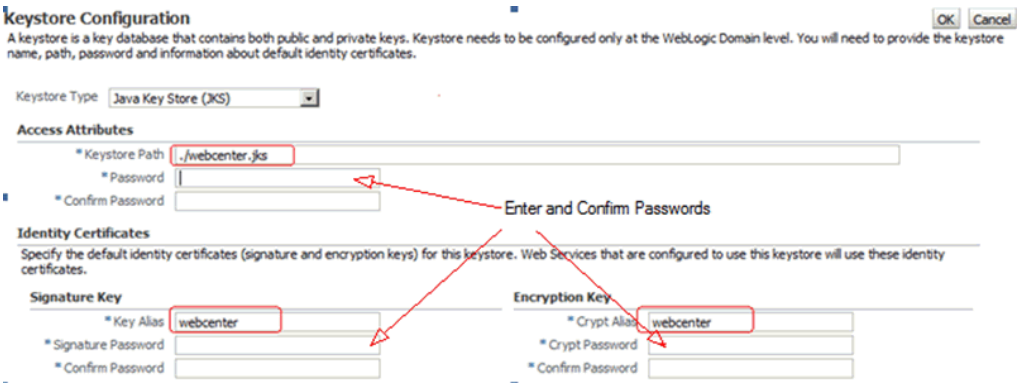
5. Click **Configure** to set up the keystore.



6. Enter the KeyStore file name and password.
7. Enter the Key Alias and Crypt Alias, these value are from your key export process.
8. Enter the passwords for both Signature Key and Encryption Key.

   ```
   ./keytool -exportcert -v -alias webcenter -keystore webcenter.jks -storepass welcome1 -rfc -file webcenter.cer
   ```

   In this example, we used webcenter as the key alias and the certificate name is webcenter.cer.



9. Click **OK**.
10. Restart WebCenter Admin and WC_Spaces.

4.4.2 Configure KeyStore on EnterpriseOne

Use these steps to configure the KeyStore on EnterpriseOne.

1. Log onto your EnterpriseOne machine.
2. Change the directory to <MW_HOME>/user_projects/domains/<your_domain>/config/fmwconfig.
3. Copy these files from your WebCenter machine:
   - cwallet.sso

     This file is different than the OAM configuration; do not copy it from your OAM server.
   - your keystore.jks

     For example, webcenter.jks
   - your keystore.cer

     For example, webcenter.cer
4. Open jps-config.xml from the same location.
5. Search for **default-keystore.jks**.
6. Replace the KeyStore location with your <keystore>.jks.

   You can adjust the description as illustrated here:

```
<!-- KeyStore Service Instance -->
<serviceInstance name="keystore" provider="keystore.provider" location="./webcenter.jks">
    <description>WebCenter Keystore Service</description>
    <property name="keystore.provider.type" value="file"/>
    <property name="keystore.file.path" value="./"/>
    <property name="keystore.type" value="JKS"/>
    <property name="keystore.csf.map" value="oracle.wsm.security"/>
    <property name="keystore.pass.csf.key" value="keystore-csf-key"/>
    <property name="keystore.sig.csf.key" value="sign-csf-key"/>
    <property name="keystore.enc.csf.key" value="enc-csf-key"/>
</serviceInstance>
```

7. Save the file.

4.5 Installing JD Edwards EnterpriseOne HTML Server

You must install the JD Edwards EnterpriseOne HTML Server.

See the *JD Edwards EnterpriseOne HTML Web Server Reference Guide* for your platform in the JD Edwards EnterpriseOne Installation and Upgrade for Apps 9.0 & Apps 9.1 using Tools 9.1 Documentation Library http://docs.oracle.com/cd/E24902_01/nav/reference.htm.

Prerequisites

- For Related Information Application Framework configuration, EnterpriseOne HTML server must be installed within the SOA domain.
- Install and configure the JD Edwards EnterpriseOne Server Manager
- Install Server Manger Agent on the EnterpriseOne HTML Server.
- Start the EnterpriseOne HTML Server.

New | Clone | Delete | Showing 1 to 2 of 2 Previous | Next

	Name	Cluster	Machine	State	Health	Listen Port
	AdminServerSOA(admin)		dendell06	RUNNING	OK	9001
	dendell06_html_9003		dendell06	RUNNING	OK	9003

4.6 Configuring Oracle HTTP Server for EnterpriseOne HTML Server

After you install and configure the Oracle HTTP Server and Oracle HTTP WebGate, use the following example to configure mod_wl_ohs.conf (located at <MW_Home>/OracleWT1/instance/instance1/config/OHS/ohs1.). Verify that WebLogic port numbers match your configuration.

```
component-logs.xml    httpd.conf.ORIG  mod_plsql
[oracle@dendell06 ohs1]$ vi mod_wl_ohs.conf
#       WebLogicPort <WEBLOGIC_PORT>
#       Debug ON
#       WLLogFile /tmp/weblogic.log
#       MatchExpression *.jsp
</IfModule>

# <Location /weblogic>
#       SetHandler weblogic-handler
#       PathTrim /weblogic
#       ErrorPage  http:/WEBLOGIC_HOME:WEBLOGIC_PORT/
#  </Location>

NameVirtualHost *:7777
<VirtualHost *:7777>
  <Location /jde>                          <-- EnterpriseOne Context
    SetHandler weblogic-handler
    WebLogicHost dendell06.mlab.jdedwards.com
    WebLogicPort 9003                      <-- enterpriseOne Port
  </Location>

<Location /console>                        <-- WebLogic Console Configuration (Optional)
   Sethandler weblogic-handler
   WebLogicHost  dendell06.mlab.jdedwards.com
   WebLogicPort  9001
</Location>

</VirtualHost>
```

4.7 Registering the WebGate Agent for EnterpriseOne HTML Server

Prerequisites

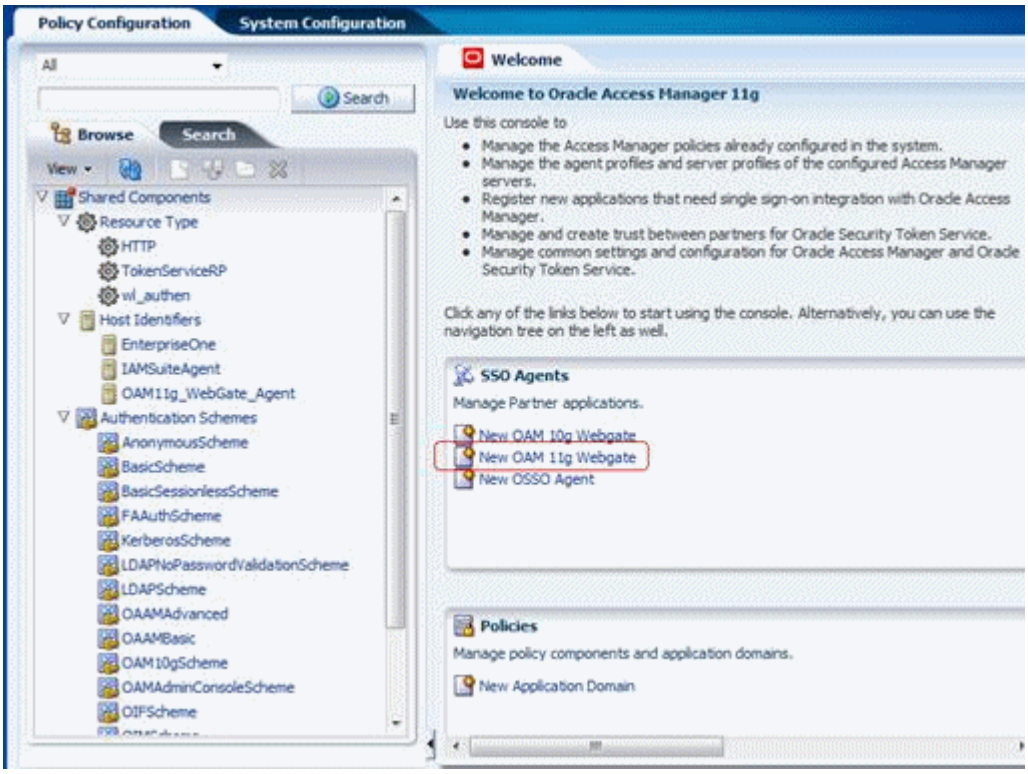
- Install Oracle HTTP Server and WebGate.
- Install and configure OID and OAM Server.
- Install and configure EnterpriseOne HTML Server.

Use these steps to register the WebGate Agent.

1. Open an internet browser and connect to the Oracle Access Manager.
2. Open the OAM console.

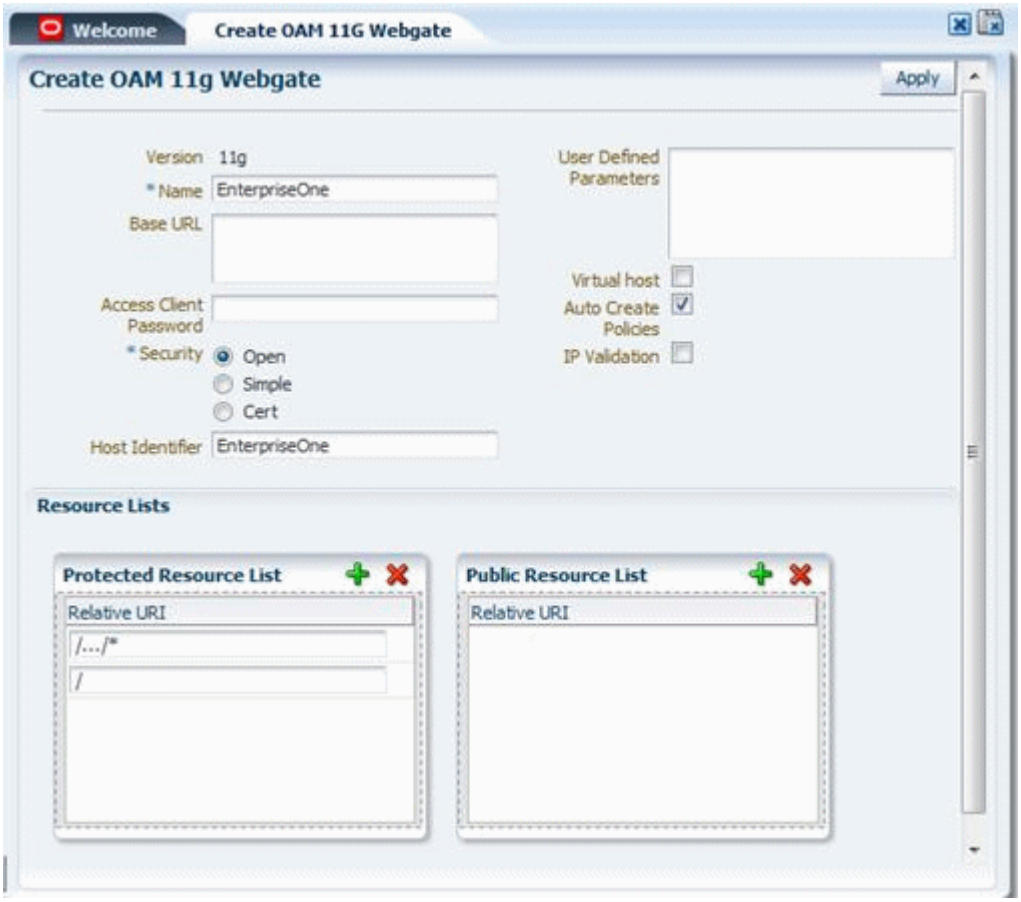
http://oamserver:oamport/oamconsole

3. Enter the Admin user and Password.
4. Select the New OAM 11g Webgate option.

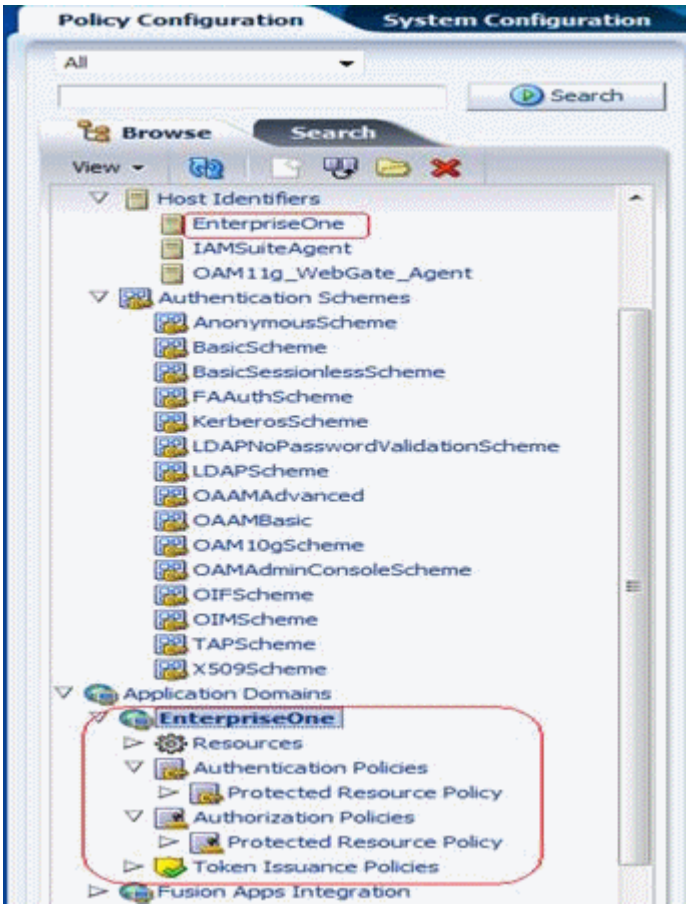


5. Enter a WebGate agent name and select the **Open** Security option.
6. Enter the EnterpriseOne HTML URL in Base URL.

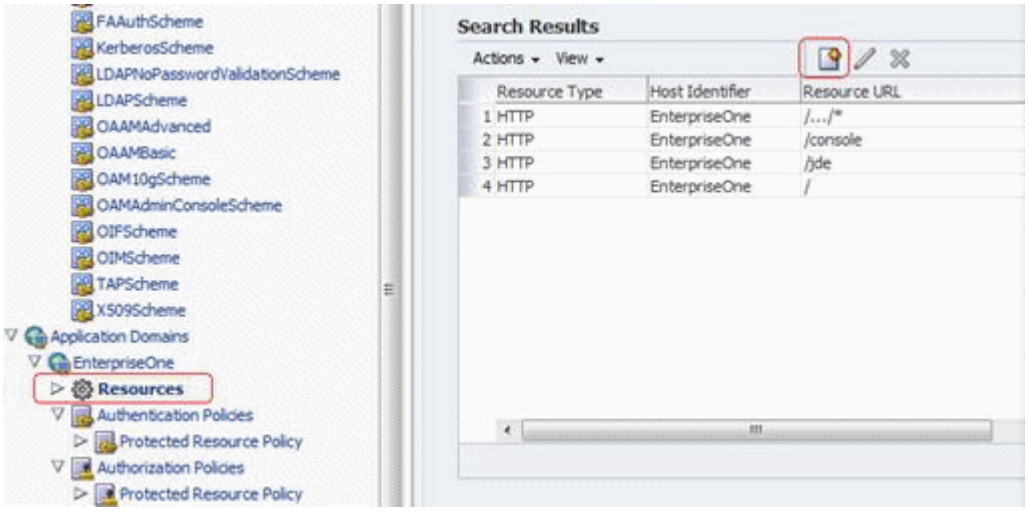
   Use the http port number.
7. Click **Apply**.



8. Host Identifiers and Application Domains are generated.



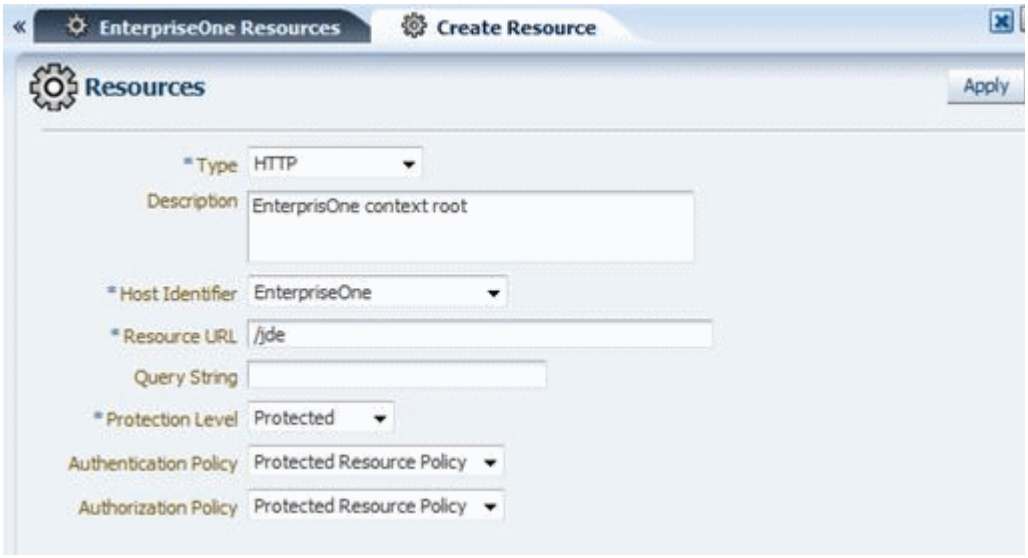
9. Select Resources, and then click **Create** to create the Resource URL.



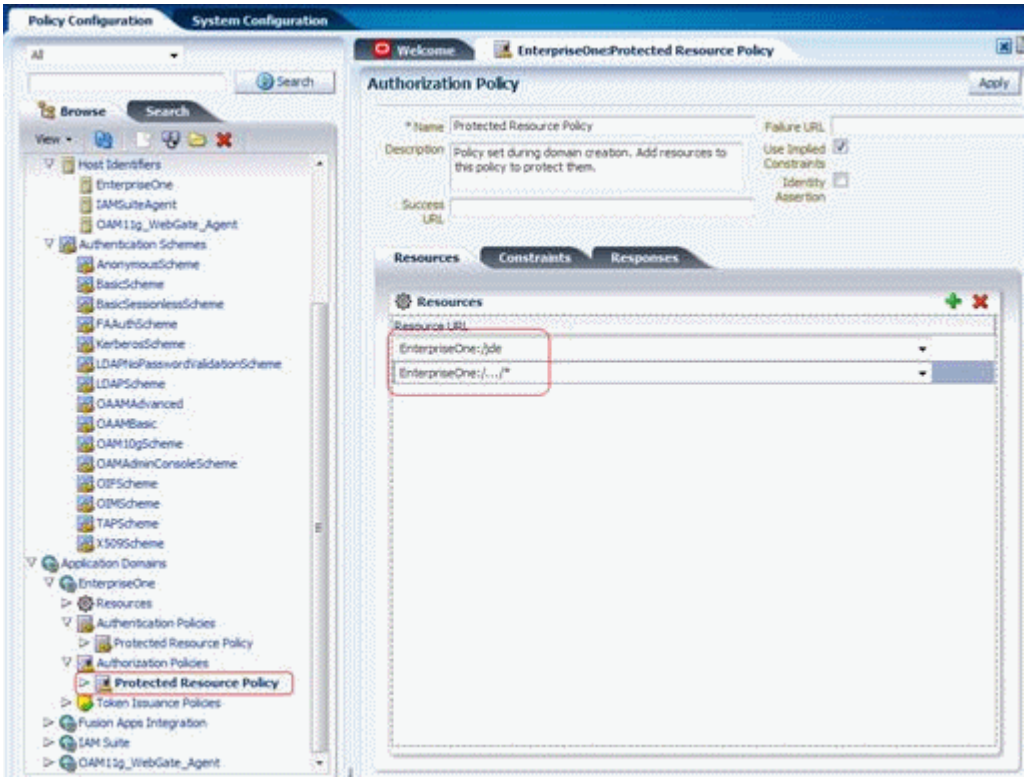
10. Enter the following information:

- Type = HTTP
- Host Identifier = Select your Host Identifier
- Resource URL = /jde

- Protection Level = Protected
- Authentication Policy = Protected Resource Policy
- Authorization Policy = Protected Resource Policy

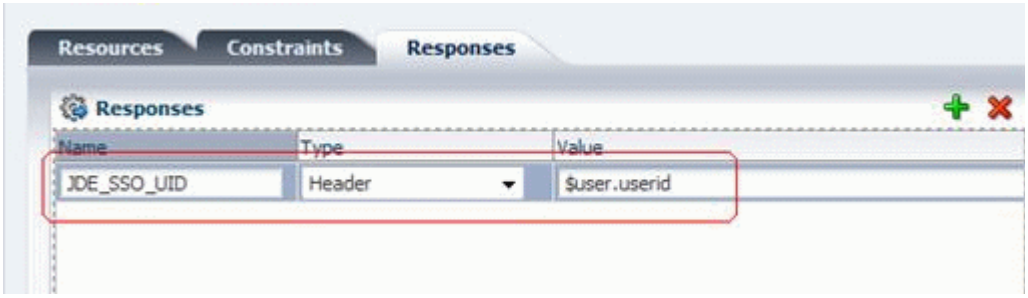


11. Repeat the above step and add the resource URL = /…/*
12. Double-click the Protected Resource Policy to see the newly added resources listed.



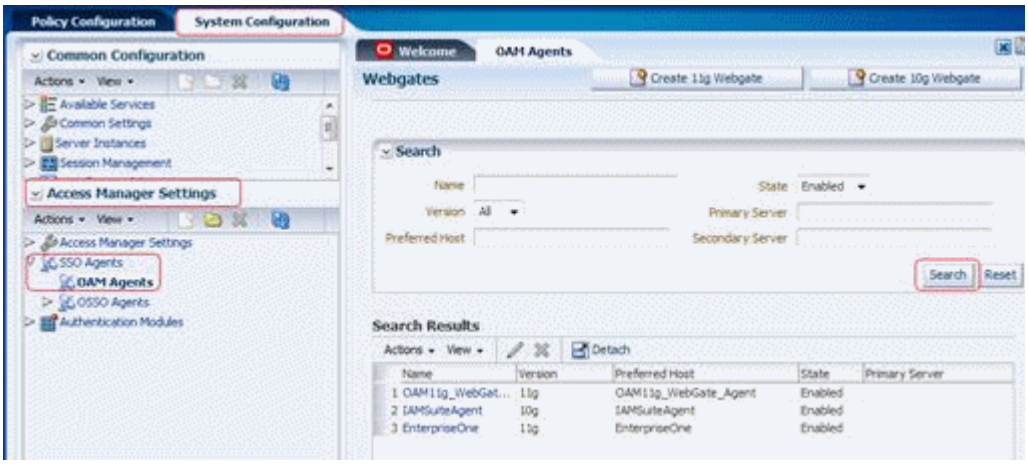
13. Click the **Responses** tab, and then click the **Add** button

14. Enter the JDE SSO header field as follows:
    - Response Name = JDE_SSO_UID
    - Type = Header
    - Value = $user.userid



15. Review all registered agents.
16. Select the **System Configuration** tab.
17. Open the Access Manager Settings section and open the SSO Agents option.
18. Double click **OAM Agents**, and then click the **Search** button.

    The system displays a list of registered agents.



19. The registered agent creates a cwallet.sso and ObAccessClient.xml file.
20. Copy these two file to the EnterpriseOne Server:

    <MW_HOME>/user_projects/domain/OAMDomain/output/<Agent_name> location

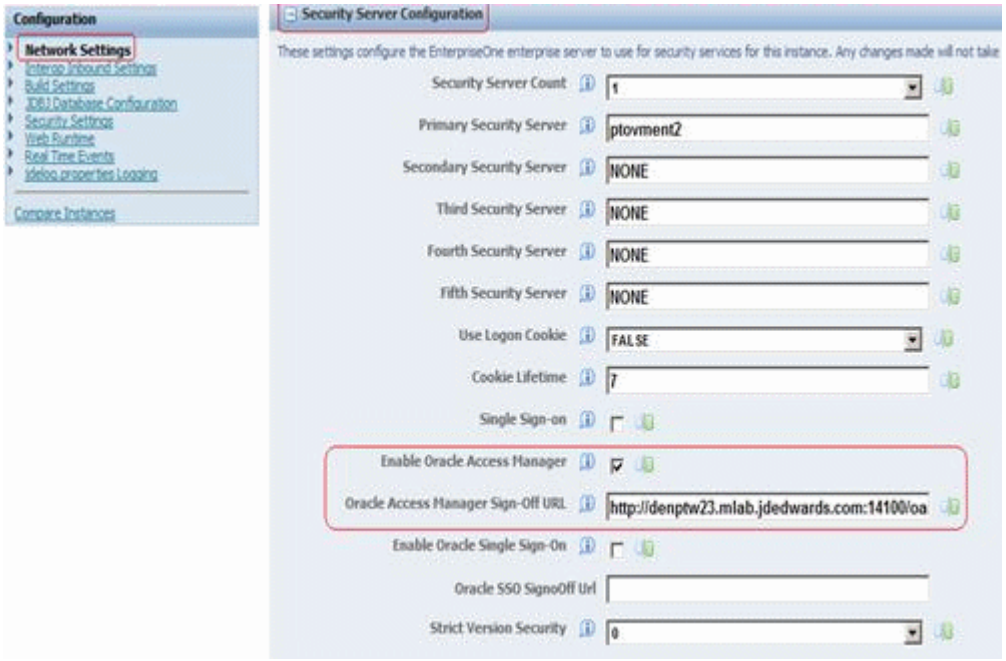
    <MW_Home>Oracle_ WT1/config/instances/instance1/OHS/ohs1/webgate/config directory.

4.8 Enabling OAM SSO on the EnterpriseOne HTML Server

Use these steps to enable OAM SSO on the JD Edwards EnterpriseOne HTML server through JD Edwards EnterpriseOne Server Manger:

1. Open Server Manager from a browser.

2. Select your instance.
3. Select Network Settings from the Configuration section.



4. Select the Enable Oracle Access Manager option.
5. Enter the Sign-Off URL

   http://<OAM-Server>:<OAM-Port>/oamsso/logout.html?end_url=http://<JAS-Server:JAS-Port/jde/index.jsp

   For example:

   `http://denptw23:14100/oamsso/logout.html?end_url=http://dendell06:7777/jde/index.jsp`
6. Click **Apply**.

   You are prompted to synchronize the ini changes.
7. Stop and restart the HTML server.

4.9 Copying JAR File to the HTML Web Server

Copy the following jar files from the WebCenter server to the HTML Web server:

- spaces-api.jar
- spaces-webservice-client.jar
- webcenter-core-api.jar

The spaces-api.jar and webcenter-core-api.jar files are typically located at <WebCenter>\lib\java\internal\oracle.webcenter.spaces\11.1.1.0.0.

For example:

C:\oracle\Middleware\Oracle_WC1\lib\java\internal\oracle.webcenter.spaces\11.1.1.0.0

The spaces-webservice-client.jar file is typically located at <WebCenter>\webcenter\modules\oracle.webcenter.framework_11.1.1.

For example:

C:\oracle\Middleware\Oracle_ WC1\webcenter\modules\oracle.webcenter.framework_11.1.1

Copy the jar files to the following location on the HTML Web server:

<Middleware>/user_projects/domains/< domain>/servers/<EnterpriseOne HTML server>/stage/<jas instance>/app/webclient.war/WEB-INF/lib

After you copy the files to the HTML Web server, restart the HTML Web server.

4.10 Granting Permission to the Client Application to Request a Token from OpenSSO

1. Open the <MW_HOME>/user_ projects/domains/<domain>/config/fmwconfig/system-jazn-data.xml file.
2. Search for the *oracle.wsm.security.WSIdentityPermission* class.
3. Add the following permission section:

   <permission>

   <class>oracle.wsm.security.WSIdentityPermission</class>

   <name>resource={your_JAS_server_name}</name>

   <actions>assert</actions>

   </permission>

```
<permission>
    <class>oracle.wsm.security.WSIdentityPermission</class>
    <name>resource=usermessagingserver</name>
    <actions>assert</actions>
</permission>
<permission>
    <class>oracle.wsm.security.WSIdentityPermission</class>
    <name>resource=dendell06_JAS_9003</name>
    <actions>assert</actions>
</permission>
```

4. Save the file, and then stop and restart your EnterpriseOne Server using Server Manager.

4.11 Synchronizing the System Clock on all Servers

Important: After all three of the machines (WebCenter, JD Edwards EnterpriseOne HTML Web Server, and the Oracle Access Manger (SSO Server) are successfully installed and configured, you MUST synchronize the clocks of all three machines. Otherwise you will not able to log in.

See "Synchronizing Clocks" in the *JD Edwards EnterpriseOne Tools System Administration Guide*

4.12 Testing the SSO Configuration

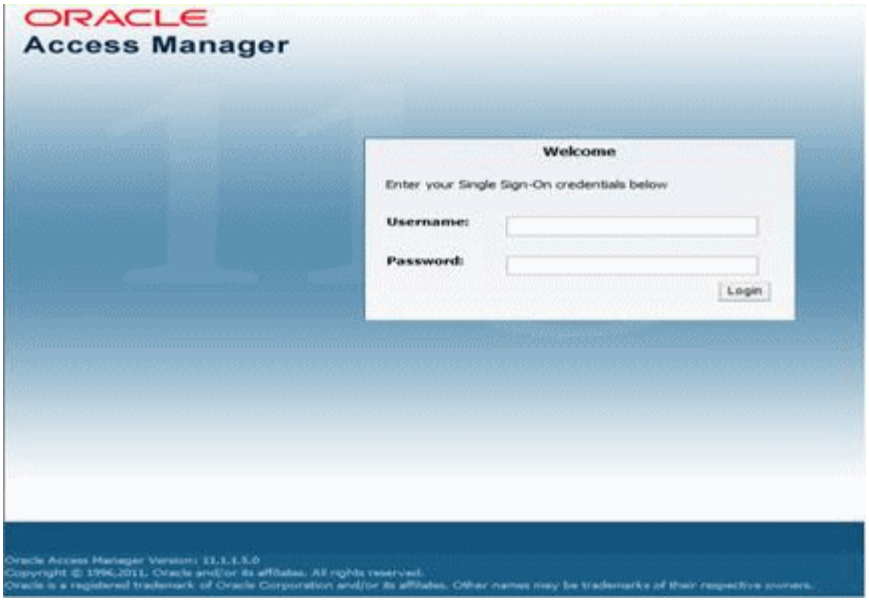
Use these steps to test the SSO configuration.

1. Enter the following in the Address line:

   http://<your host:your sso port>/jde/E1Menu.maf

   Note: Ensure you provide the HTTP port instead of the actual JAS port. You will not be able to log in with your original JAS port.

2. The Oracle Access Manager 11g login page appears.



3. After the sign-on is working, create a WebCenter connection and enable an application form.

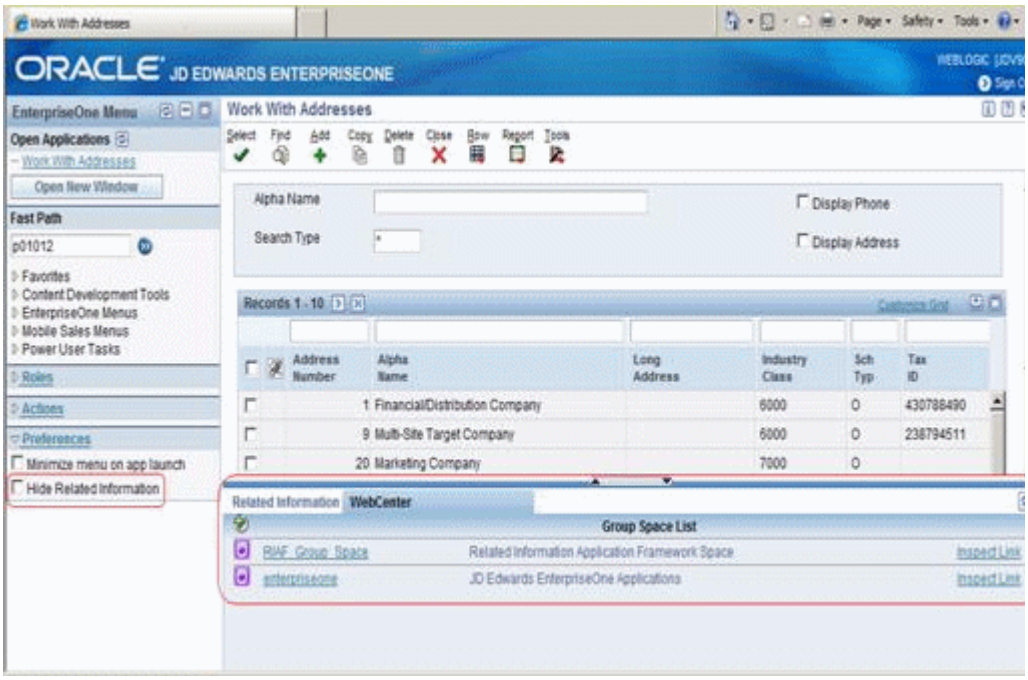
   See "Creating a WebCenter Connection" in the *JD Edwards EnterpriseOne Tools System Administration Guide*

   See "Enabling Application Forms" in the *JD Edwards EnterpriseOne Tools System Administration Guide*

4. After the configuration is done, log onto EnterpriseOne and test the WebCenter Spaces configuration.

   The WebCenter Spaces appear on your configured application.

5. You can click the green **Plus** icon to add new WebCenter Spaces.


Work With Addresses
ORACLE JD EDWARDS ENTERPRISEONE
EnterpriseOne Menu
Open Applications
Work With Addresses
Open New Window
Fast Path
p01012
Favorites
Content Development Tools
EnterpriseOne Menus
Mobile Sales Menus
Power User Tasks
Roles
Actions
Preferences
Minimize menu on app launch
Hide Related Information
Work With Addresses
Select
Find
Add
Copy
Delete
Close
Row
Report
Tools
Alpha Name
Search Type
Display Phone
Display Address
Records 1 - 10
Address Number
Alpha Name
Long Address
Industry Class
Sch Typ
Tax ID
1 Financial/Distribution Company 6000 0 430788490
9 Multi-Site Target Company 6000 0 238794511
20 Marketing Company 7000 0
Related Information
WebCenter
Group Space List
RIAF_Group_Space
Related Information Application Framework Space
Inspect Link
enterpriseone
JD Edwards EnterpriseOne Applications
Inspect Link

A

Create Database Schemas with Repository Creation Utility

This appendix discusses creating database schemas with Repository Creation Utility (RCU) 11.1.1.5. Prior running this utility, you must have a functioning database such as Oracle database 11g. RCU is a 32-bit application and is available on only Windows x86 and Linux x86 platforms, but you can create schemas on other supported platforms.

The previous version of RCU, such as 11.1.1.2, is not compatible with OFMW 11.1.1.5. You must use 11.1.1.5.

Prerequisites

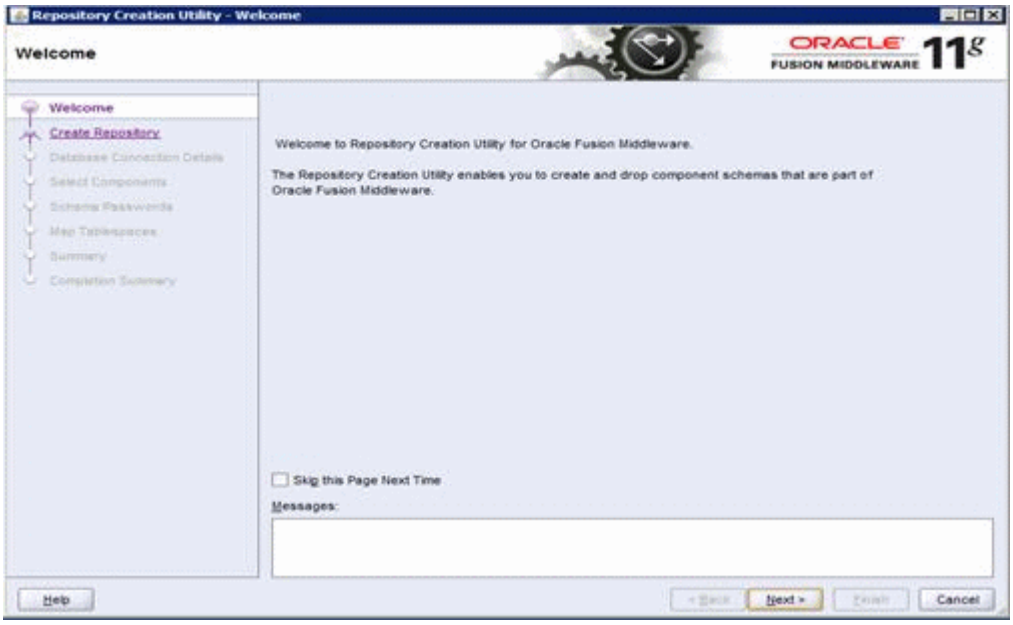
- You must have a database installed and configured.

  If your existing database is not UTF-8 format, you will get a warning message that you can ignore.

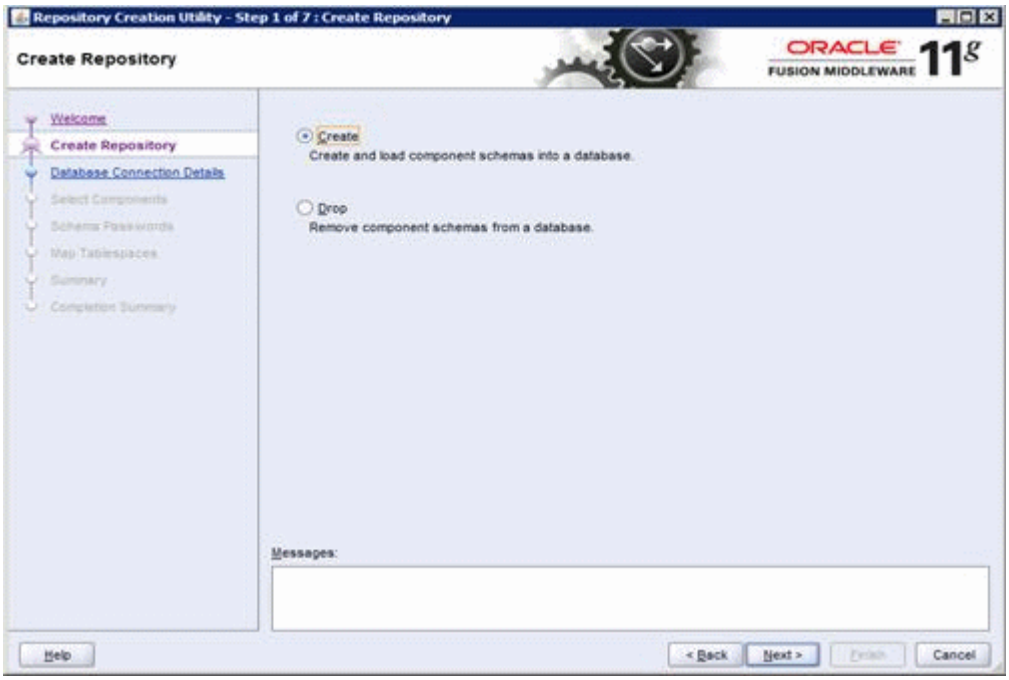
- You must alter these Oracle database parameters:
  - Alter system set processes=500 scope=spfile
  - Alter system set open_cursors=800 scope=spfile
  - Restart database before running RCU

Use these steps to launch the Repository Creation Utility.

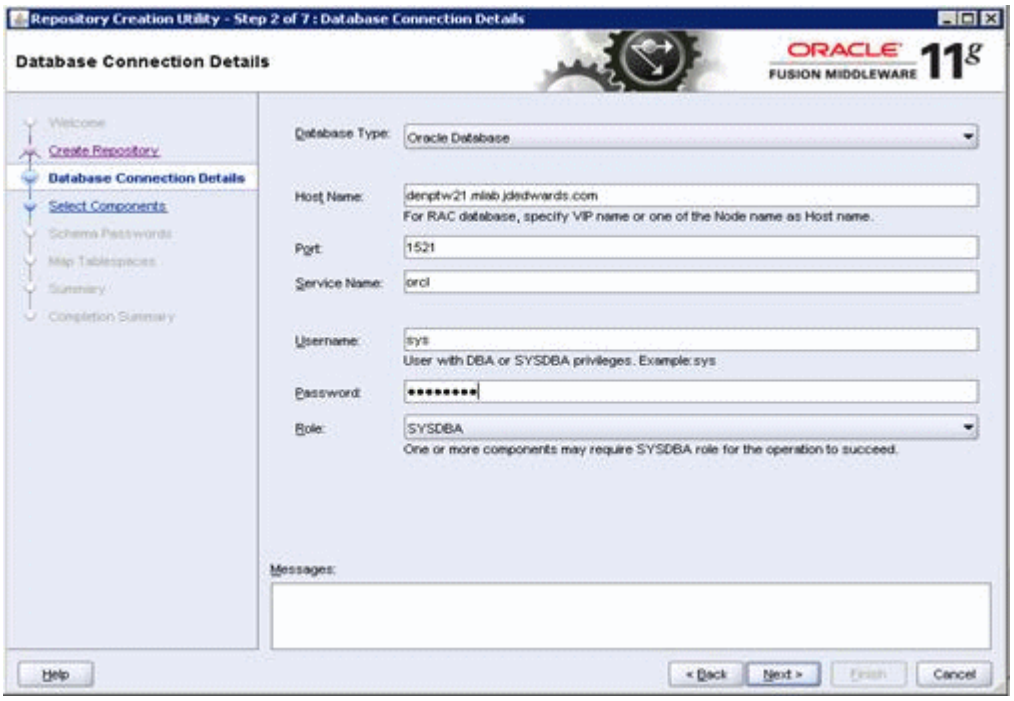
1. Download and unzip the ofm_rcu_win_11.1.1.5.0_disk1_1of1.zip file.
2. Run rcu.bat on Windows and rcu on UNIX.
3. Click **Next** on the Welcome page.



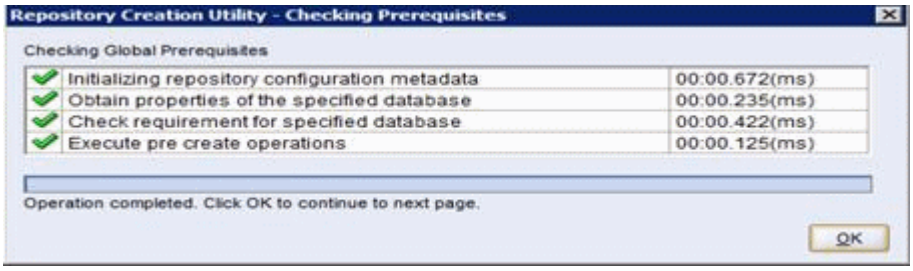
4. Select the **Create** option.



5. Enter the database connection information.

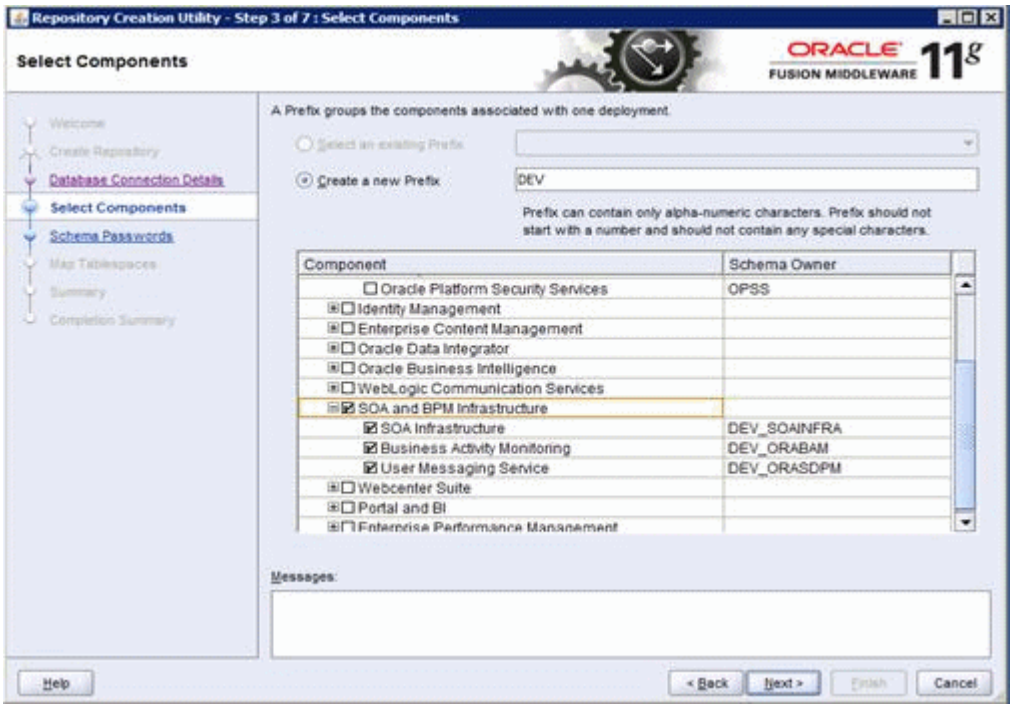


6. The utility performs a prerequisites check.

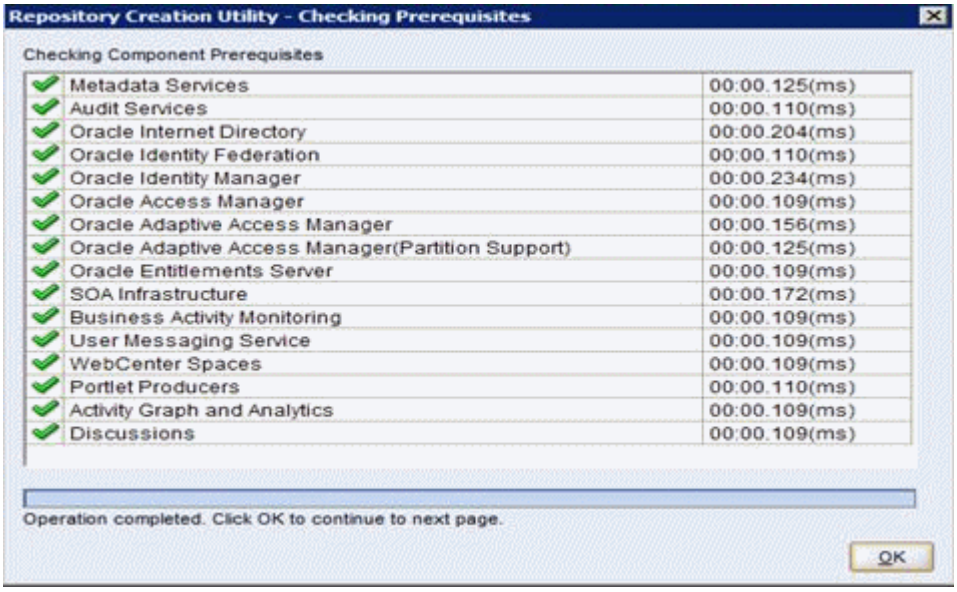


7. On Select Components, enter the prefix that identifies your environment in the **Create a new Prefix** field.
8. In the Component area, select the schemas you need to create.
   - For WebCenter - select the WebCenter Suite
   - For OAM/OID - select Identity management
   - For SOA - select SOA and BPM Infrastructure

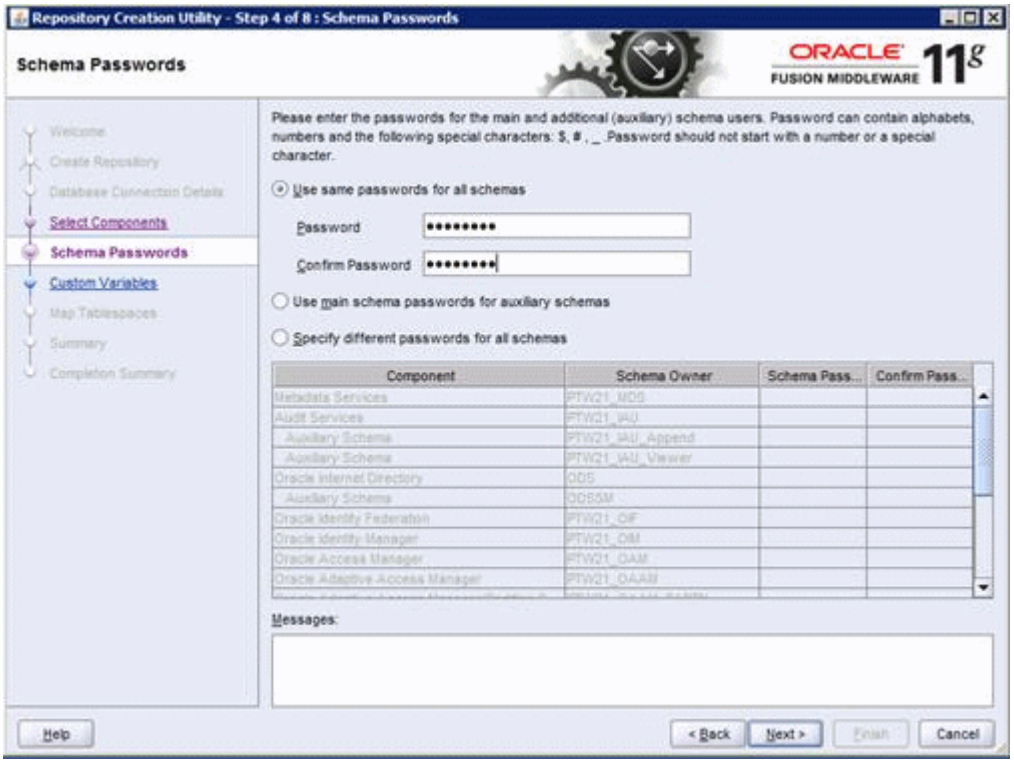
Note: You can rerun this utility anytime to add more database schemas.



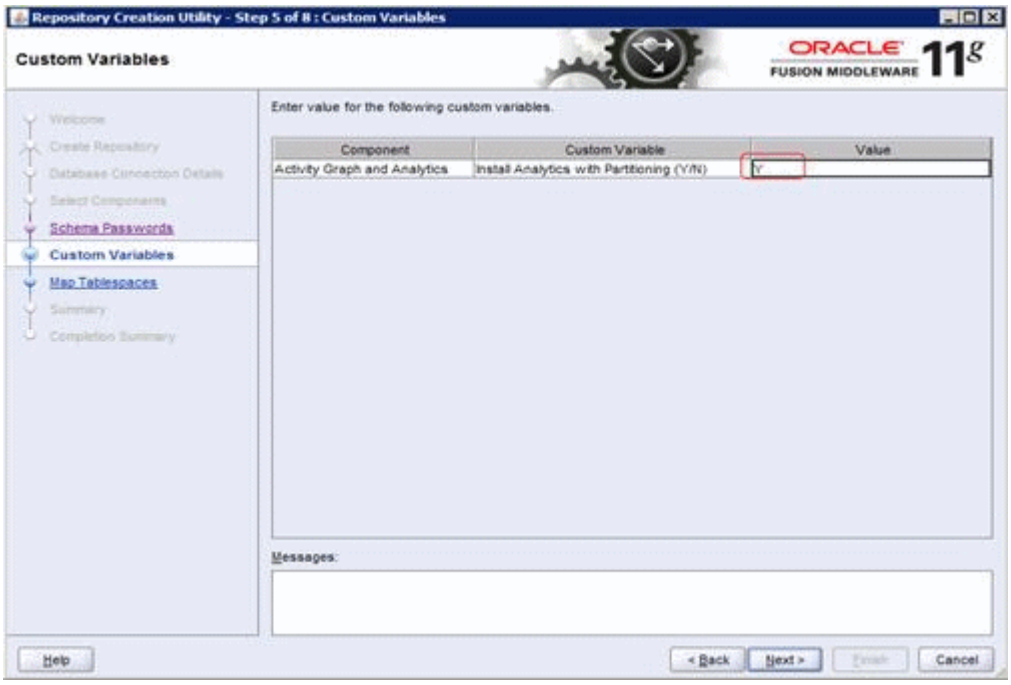
9. The utility performs the prerequisites again.



10. Enter the schema passwords.

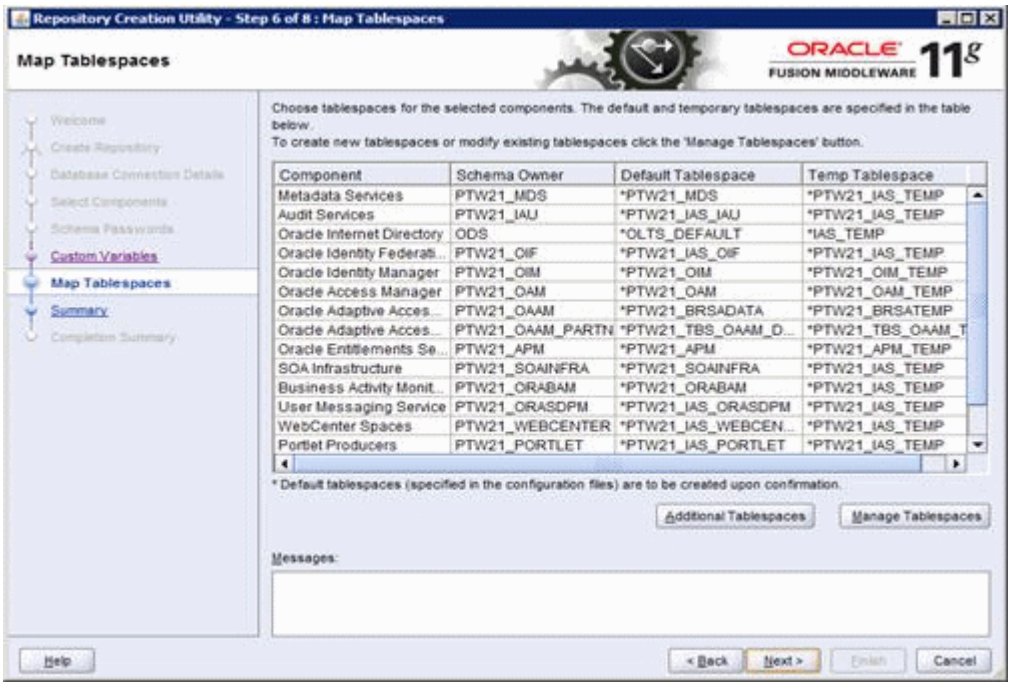


11. Enable the Activity Graph and Analytics option.



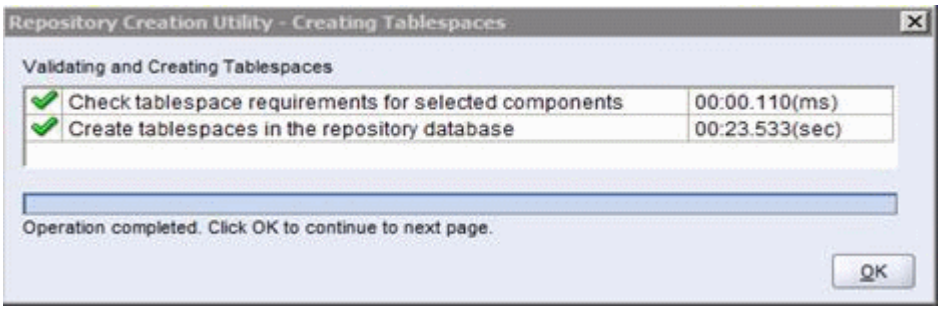
12. Review the tablespace mapping.

> **Note:** This example shows a different schema prefix than the default, which is DEV.



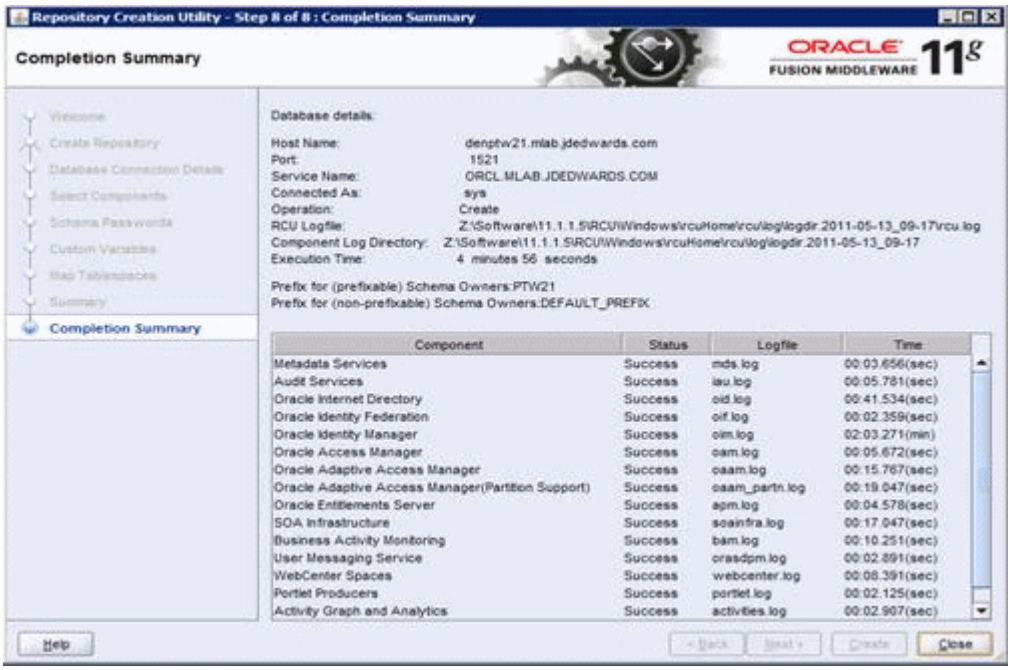
13. The utility creates any tablespaces that do not already exist.

14. The utility validates and creates the tablespaces.

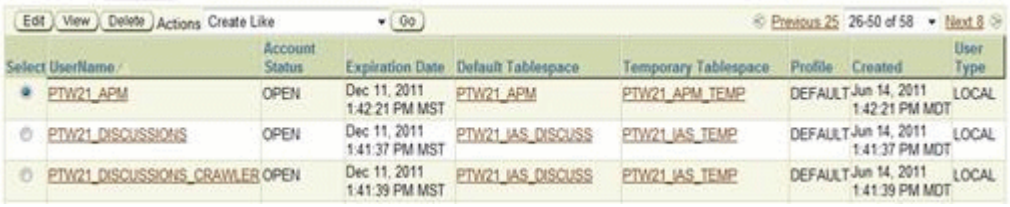


15. Review the summary.

16. Click **Create** to start the tablespaces creation.



17. Click **Close** to exit Repository Creation Utility.
18. Verify the schemas creation from Oracle Database console.



B

Installing WebLogic Server

This appendix discusses installing WebLogic Server 10.3.5.0. Prior running WebLogic Server installation, you must install a 64-bit JDK and set it to the system path.

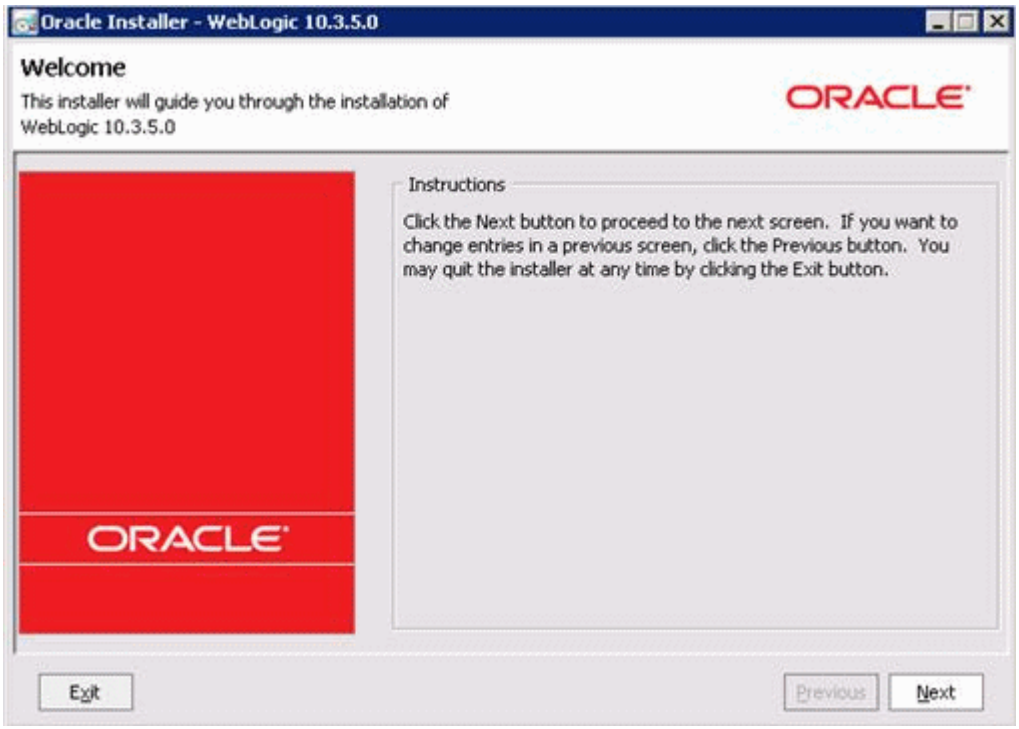
Prerequisites

- Install a 64-bit JDK based on your platform.
  - Sun JDK 1.6.0_24+
  - Oracle JRockit 1.6.0_24-R28.1.3+
  - IBM JDK 6 (SR9 with FP1+)
- Add the JDK to your system path.

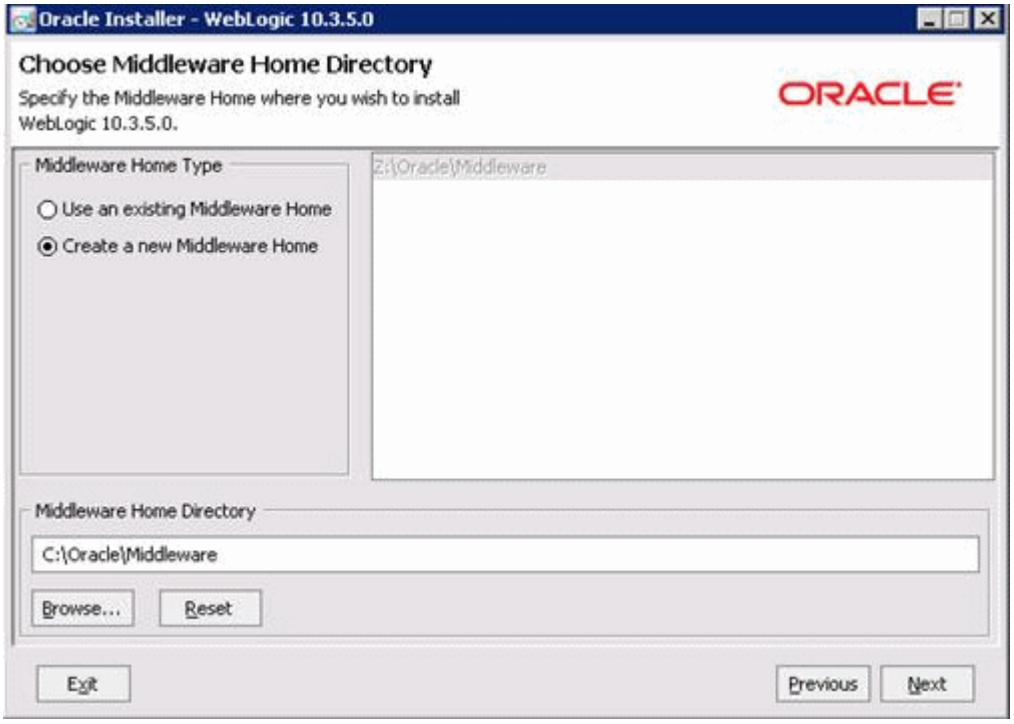
> **Note:** A plus sign (+) after the fourth digit in the version number indicates that this and its subsequent versions are supported.

Use these steps to install WebLogic Server 10.3.5.0

1. Download the wls1035_generic.jar file.
2. Run this command:
   - On Windows and Linux: >java -jar wls1035_generic.jar
   - On Solaris with Sun JDK: >java -d64 -jar wls1035_generic.jar
3. Click **Next** on the Welcome page.

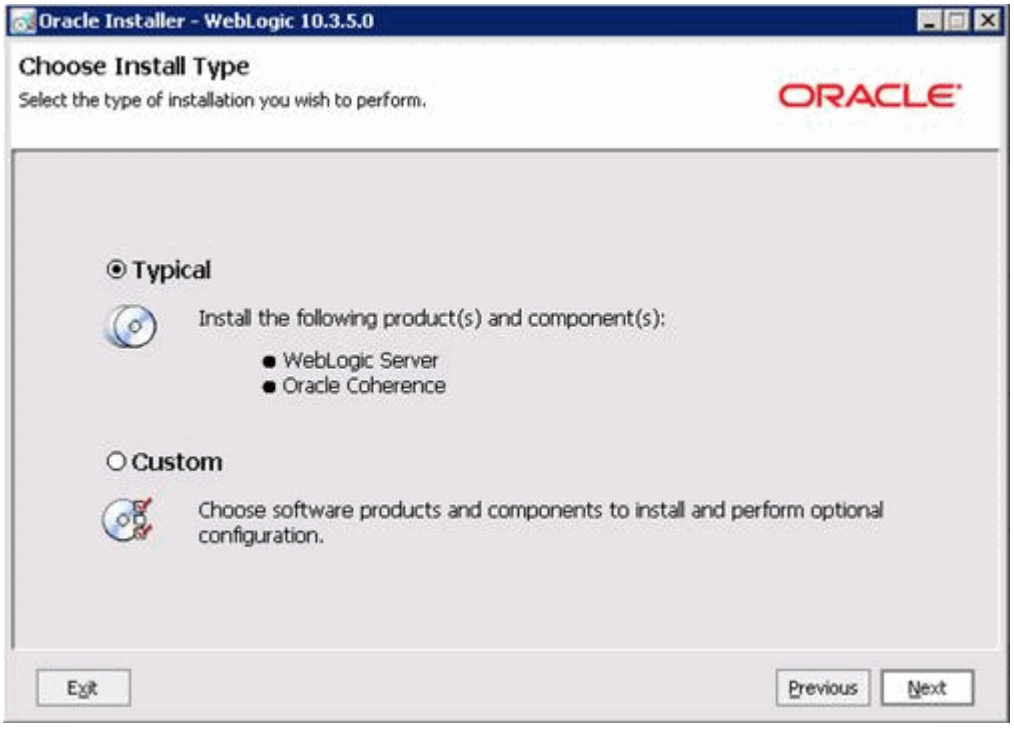


4. Click **Create a New Middleware Home** option, and then enter the Home Directory.

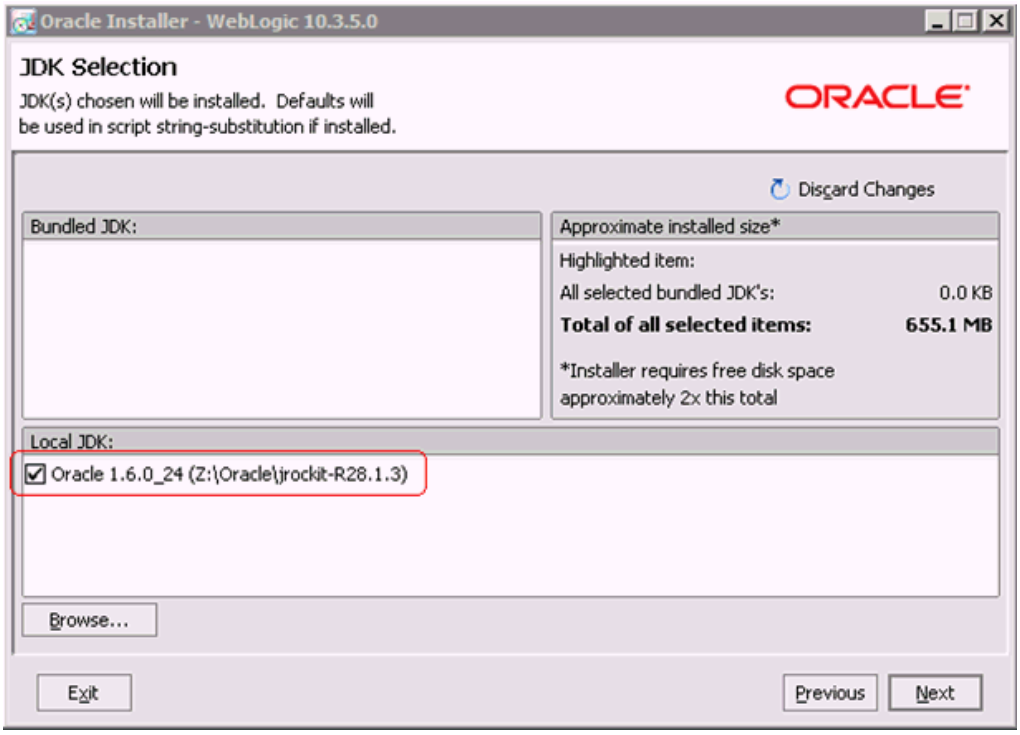


5. Enter the contact information for Security Updates.

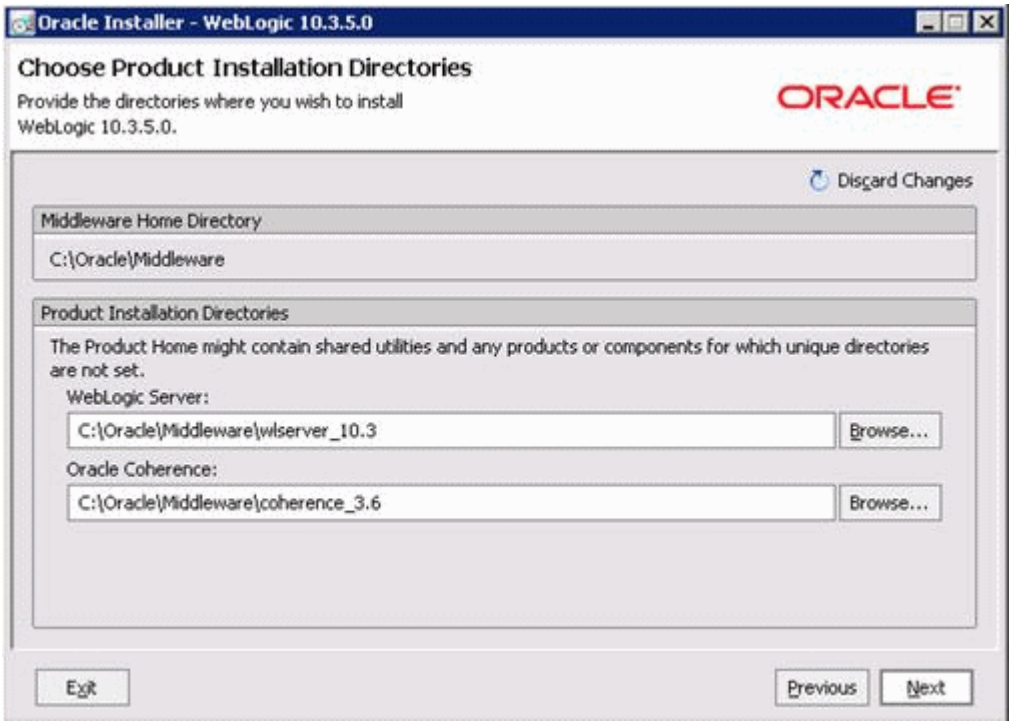
6. Select **Typical** as the installation type.



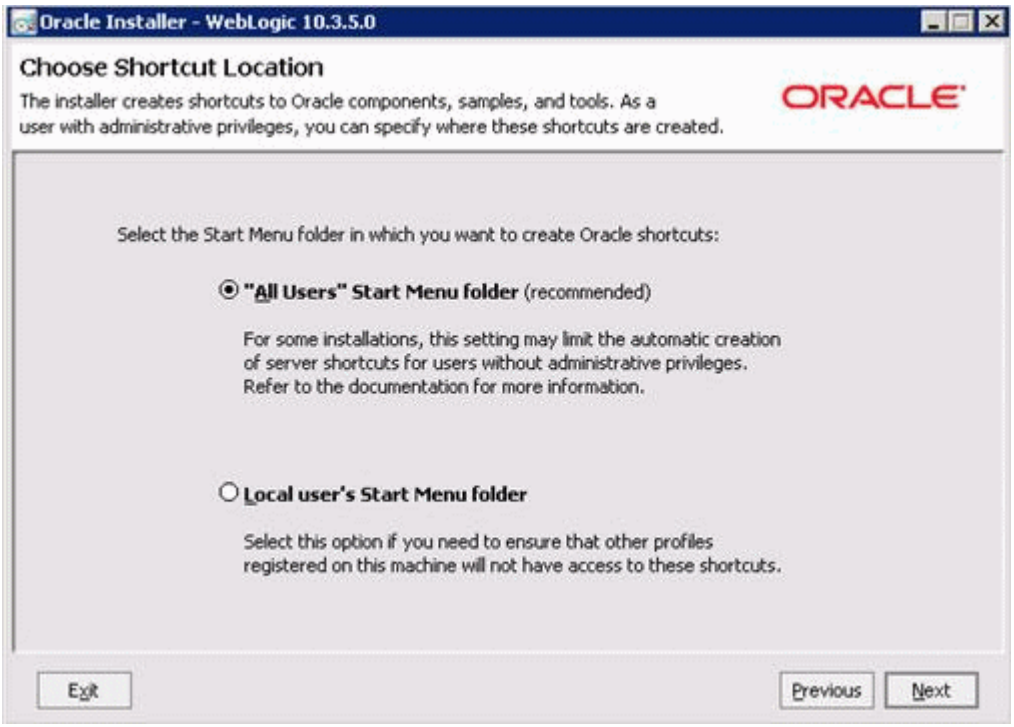
7. Verify the JDK location.



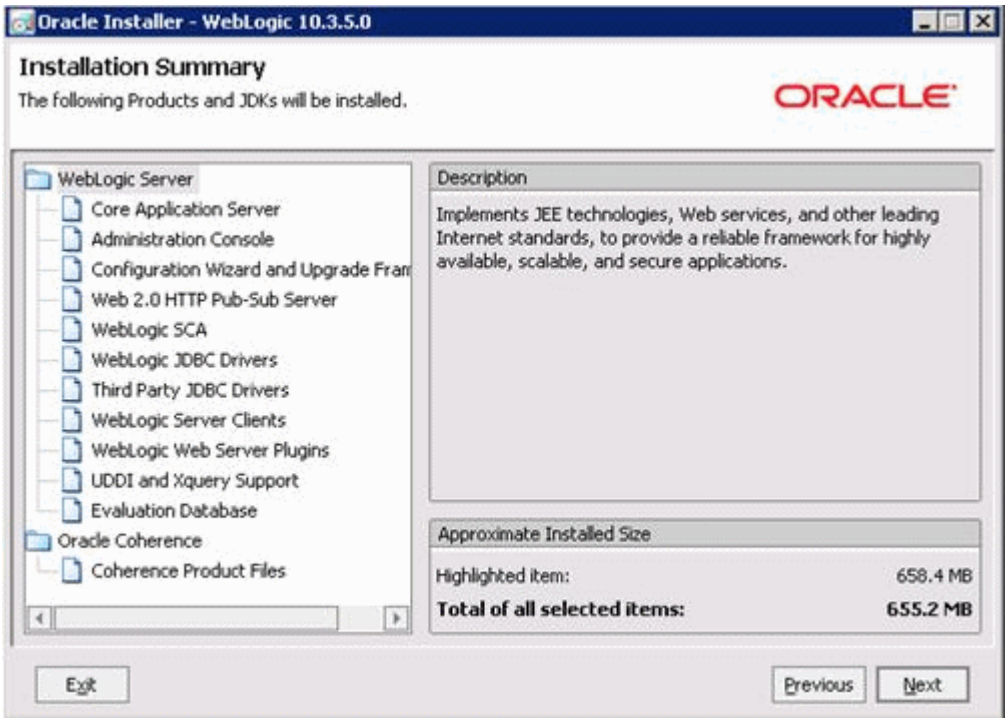
8. Confirm the install location.



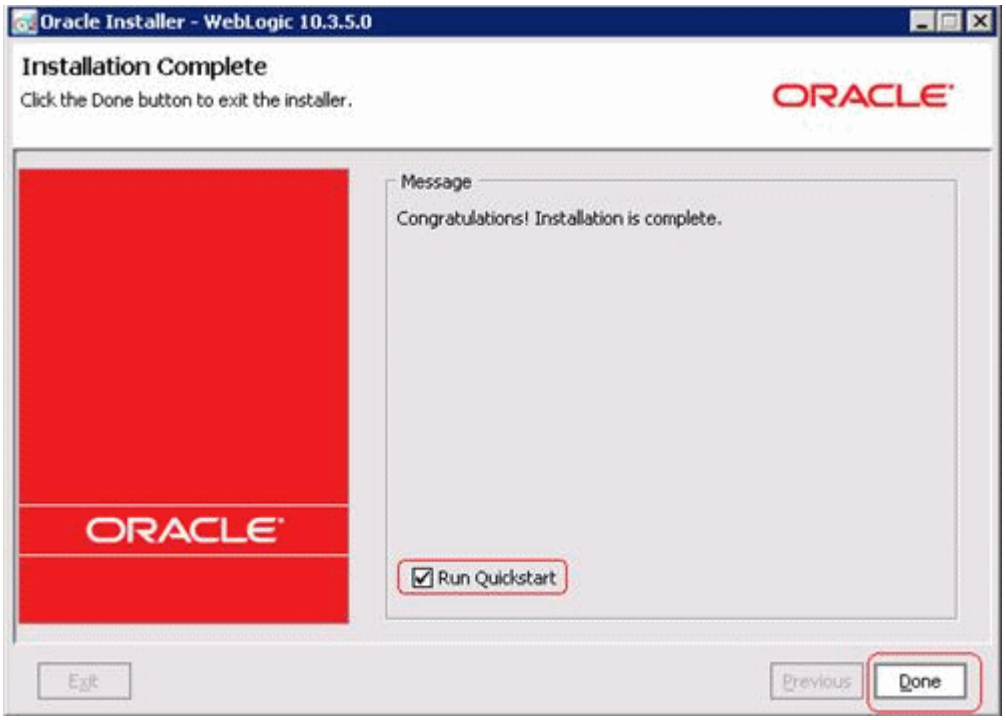
9. On Windows platform, the system prompts you for a shortcut location.



10. Review the Installation Summary page.

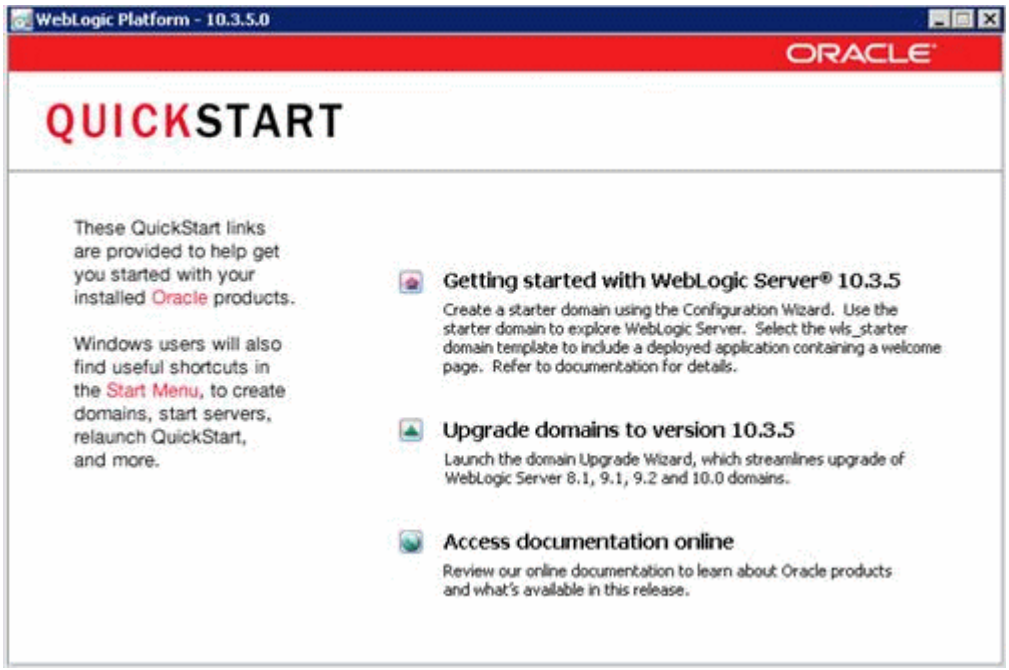


11. Click **Run Quickstart** to launch the domain configuration wizard.

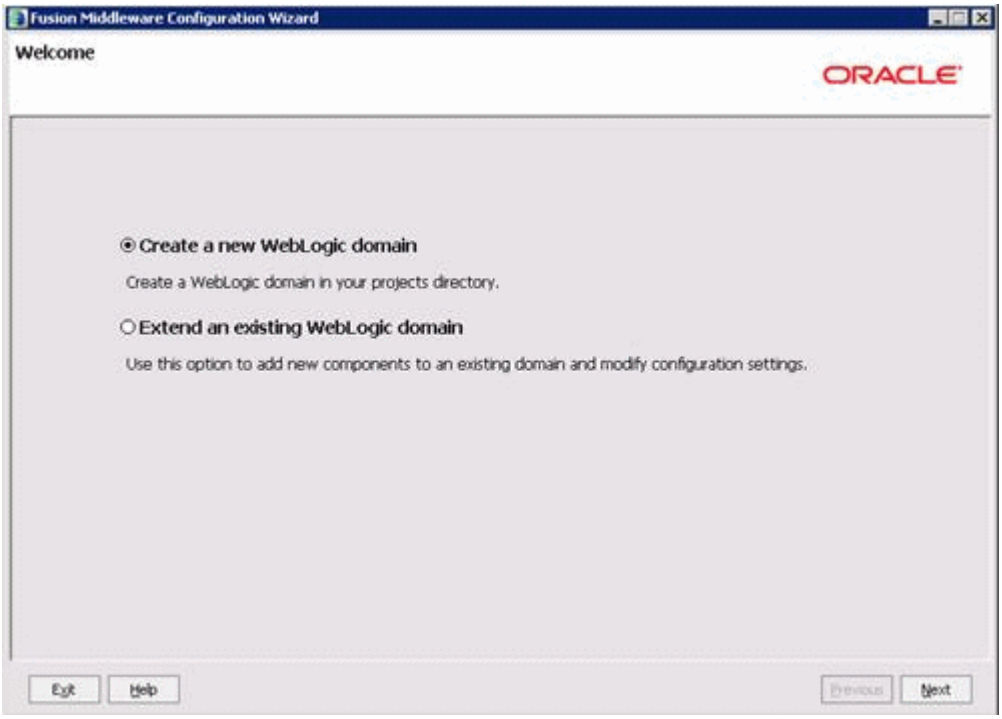


12. Select Getting started with WebLogic Server 10.3.5.

Note: Some Oracle applications (such as WebCenter and OID/OAM) create the domain during installation. If so, you can skip the Quickstart process.

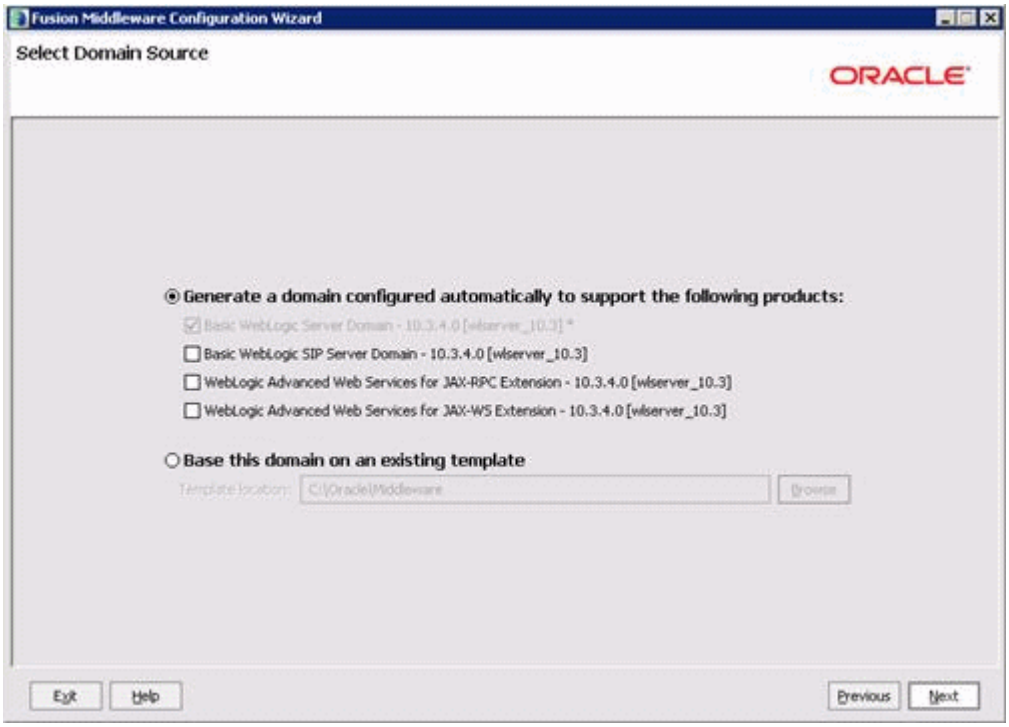


13. Select Create a new WebLogic domain.

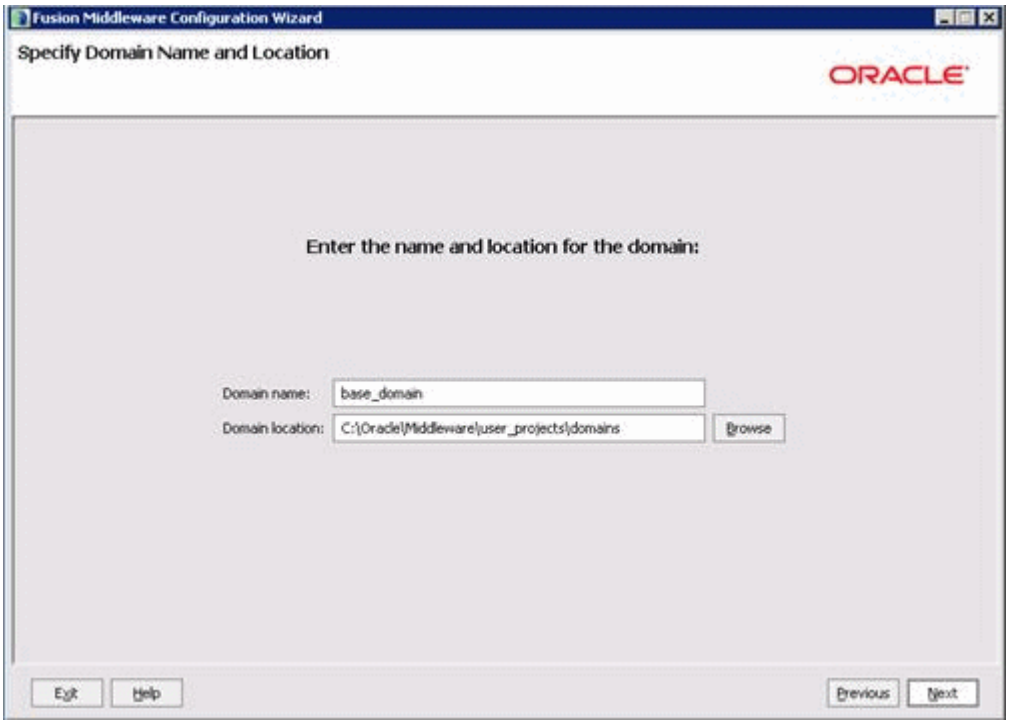


14. Select only the WebLogic Server Domain - 10.3.4.0 (Selected as default).

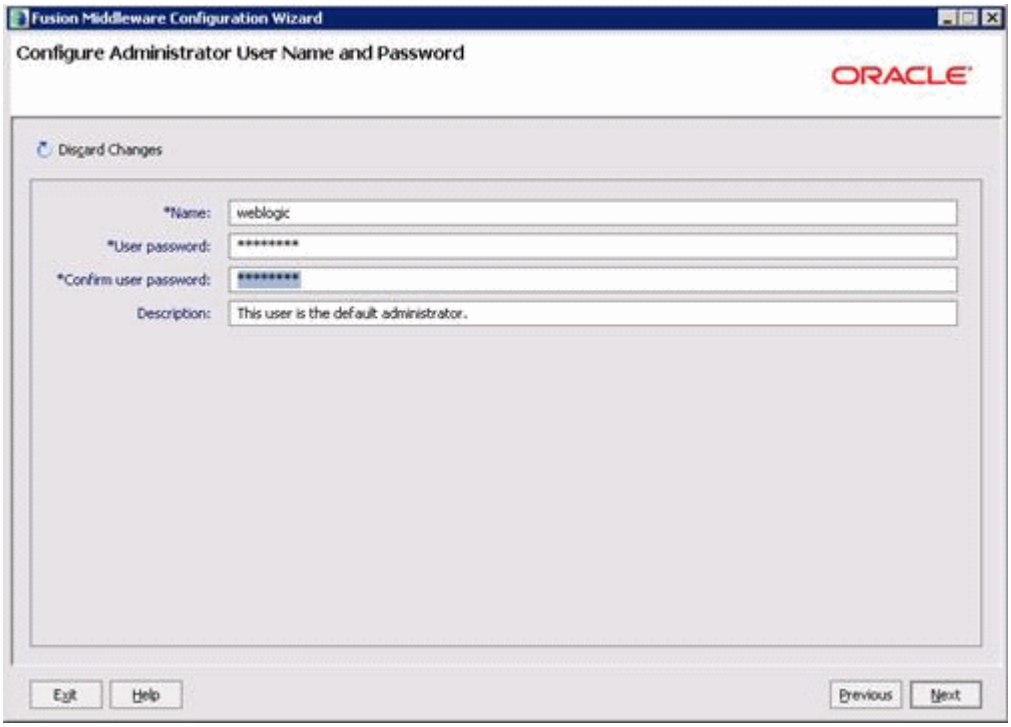
Note: The 10.3.4.0 version shows that you are installing 10.3.5.0 version.



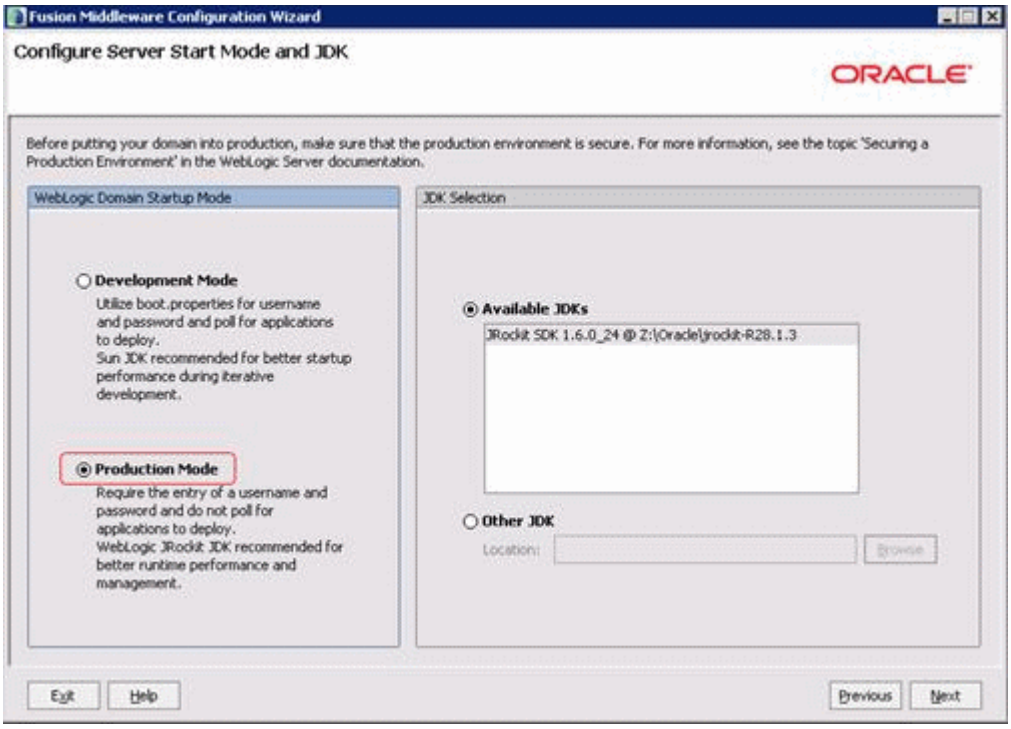
15. Enter a domain name.



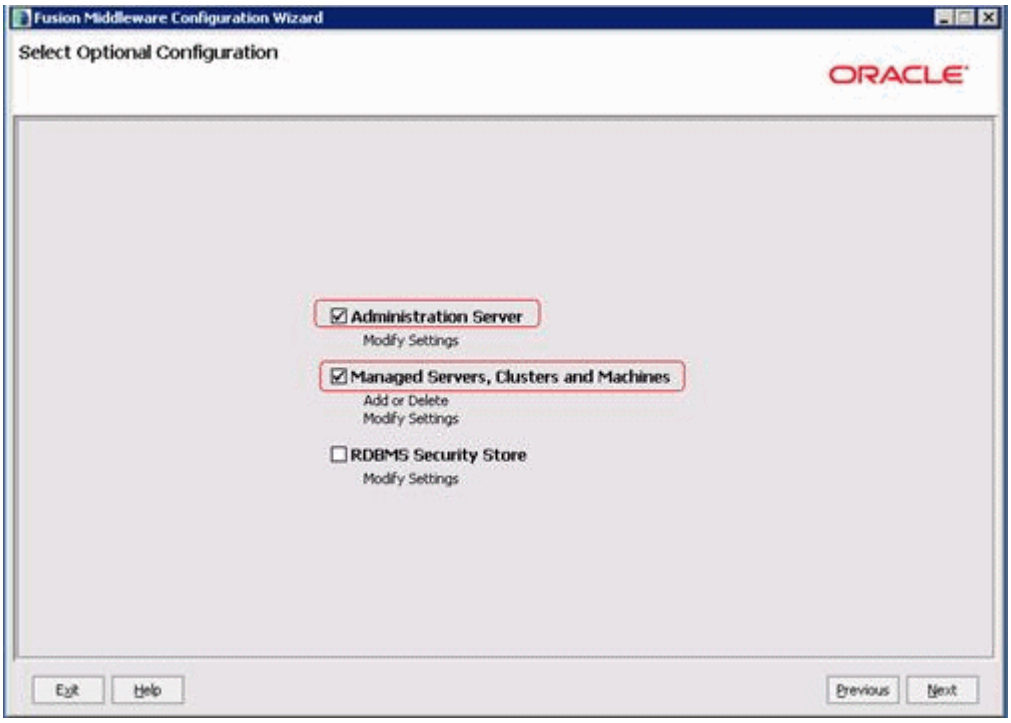
16. Enter the Administrator user name and password.



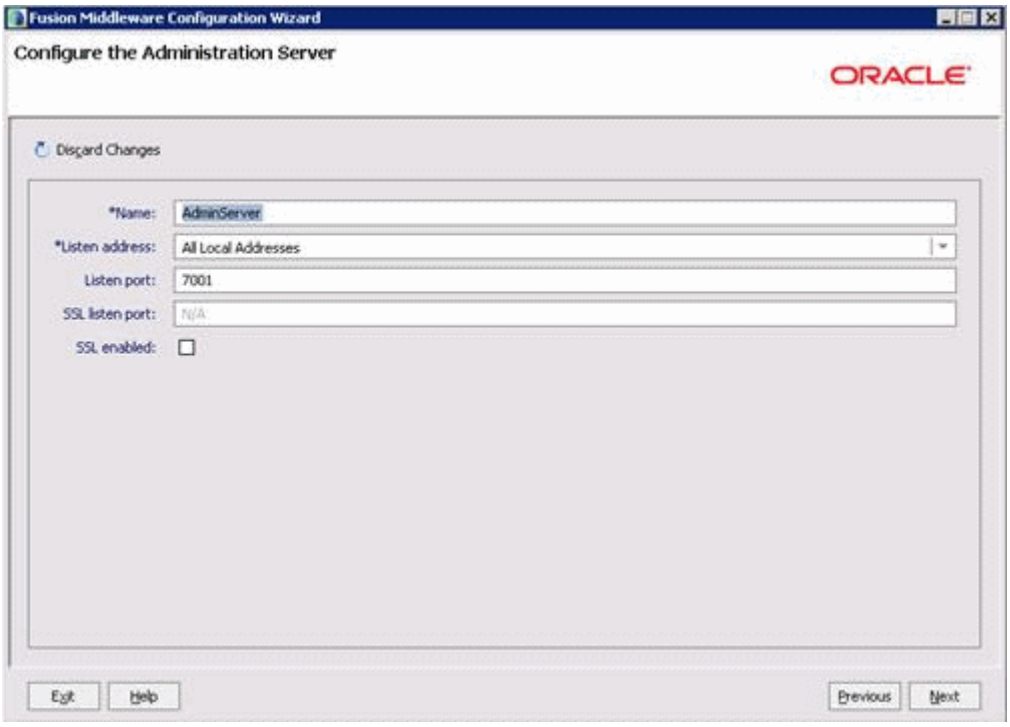
17. Select Production Mode.



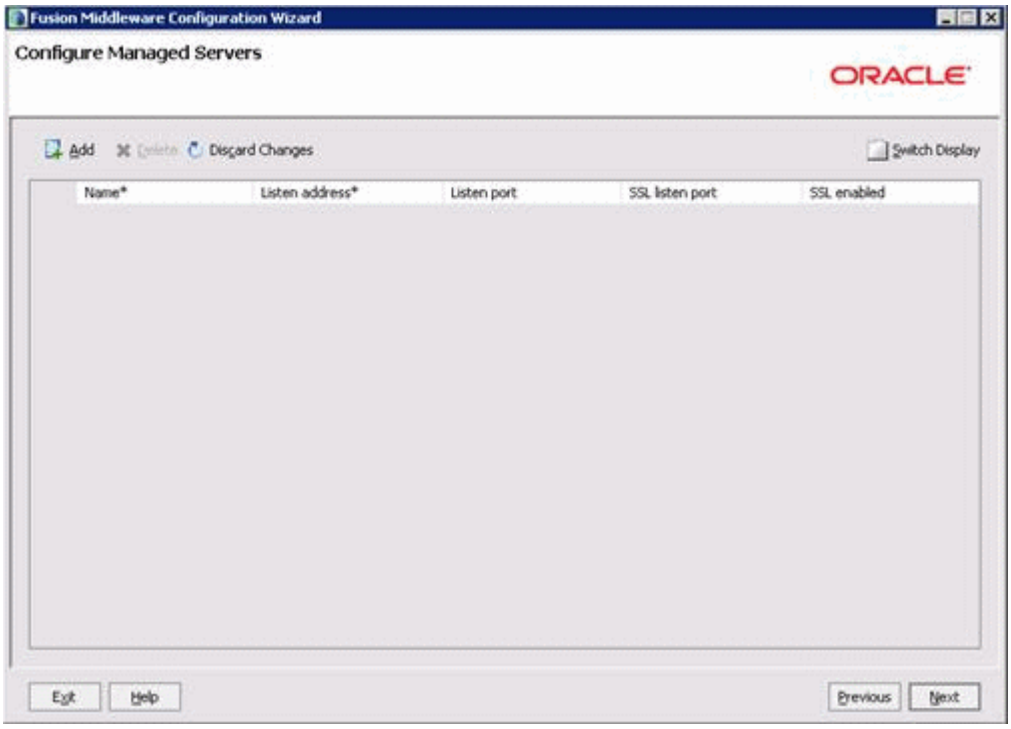
18. Select Administration Server and Managed Servers, Clusters and Machine options.



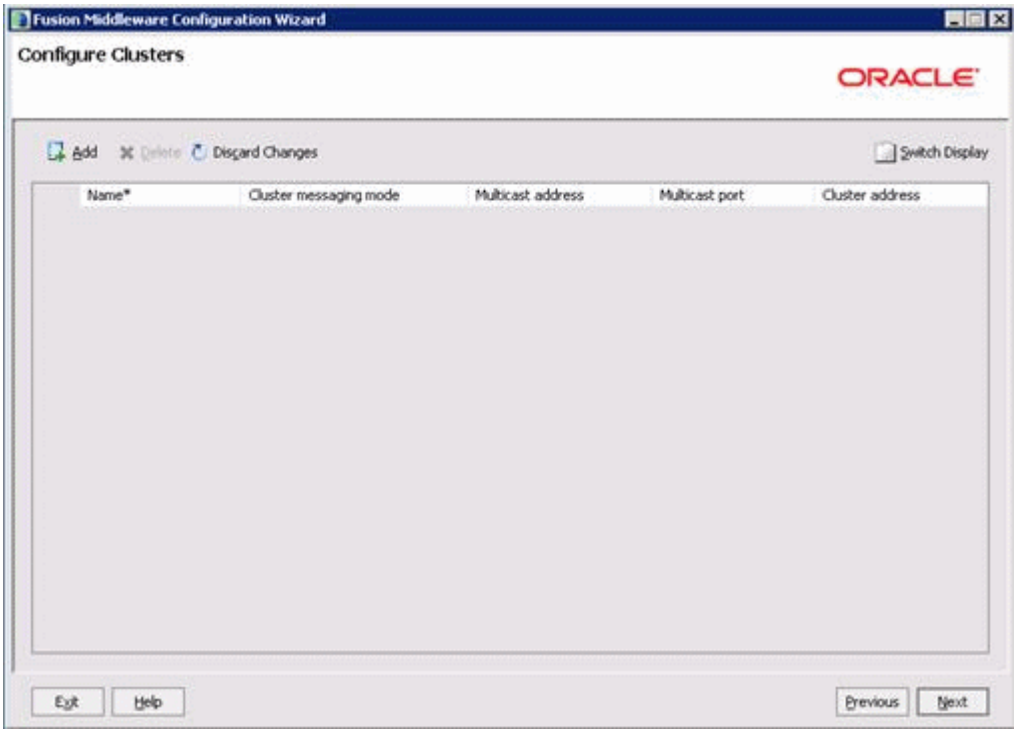
19. Enter the Admin Server name and port. The default port is 7001.



20. On Configured Managed Servers, click **Next**.

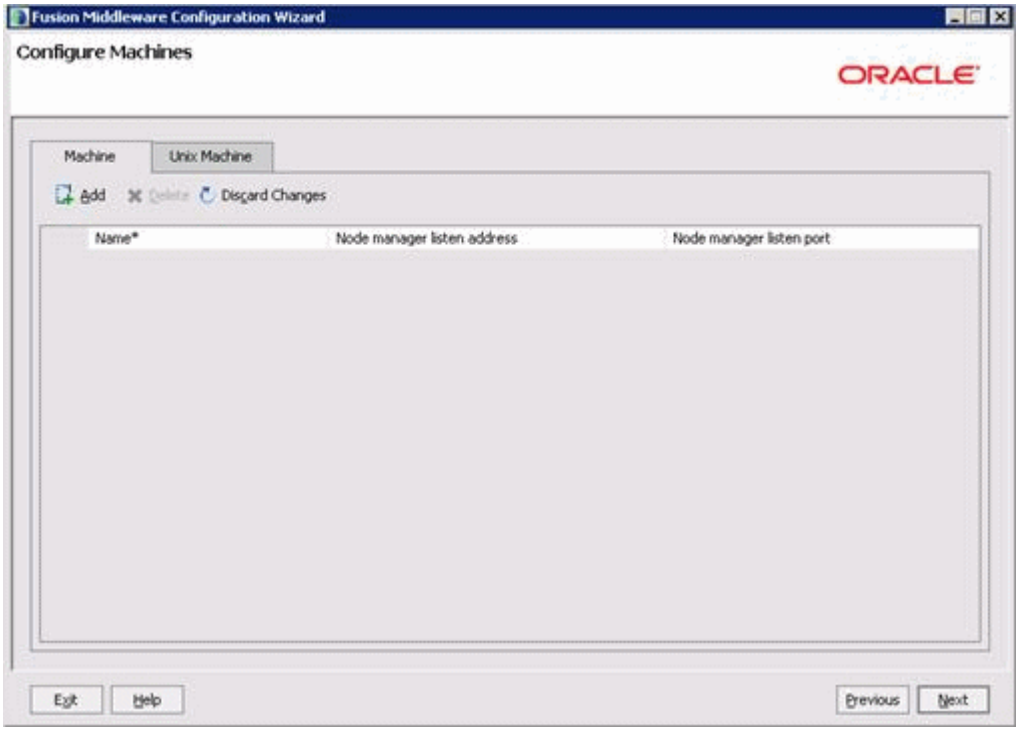


21. On Configure Clusters, click **Next**.

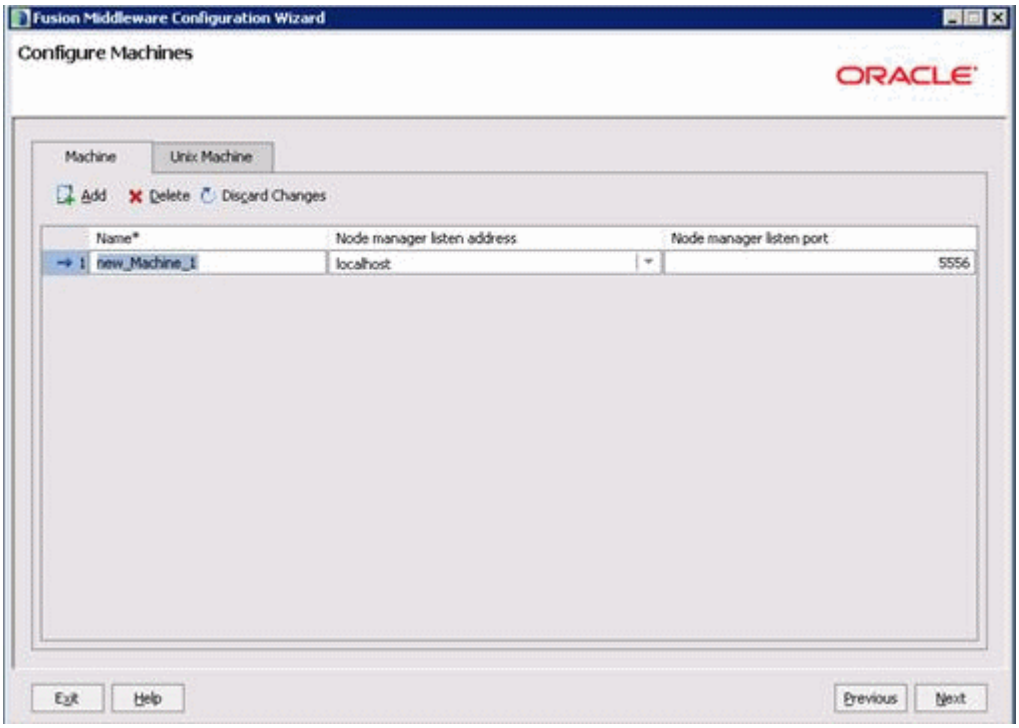


22. Click **Add** to configure the machine information.

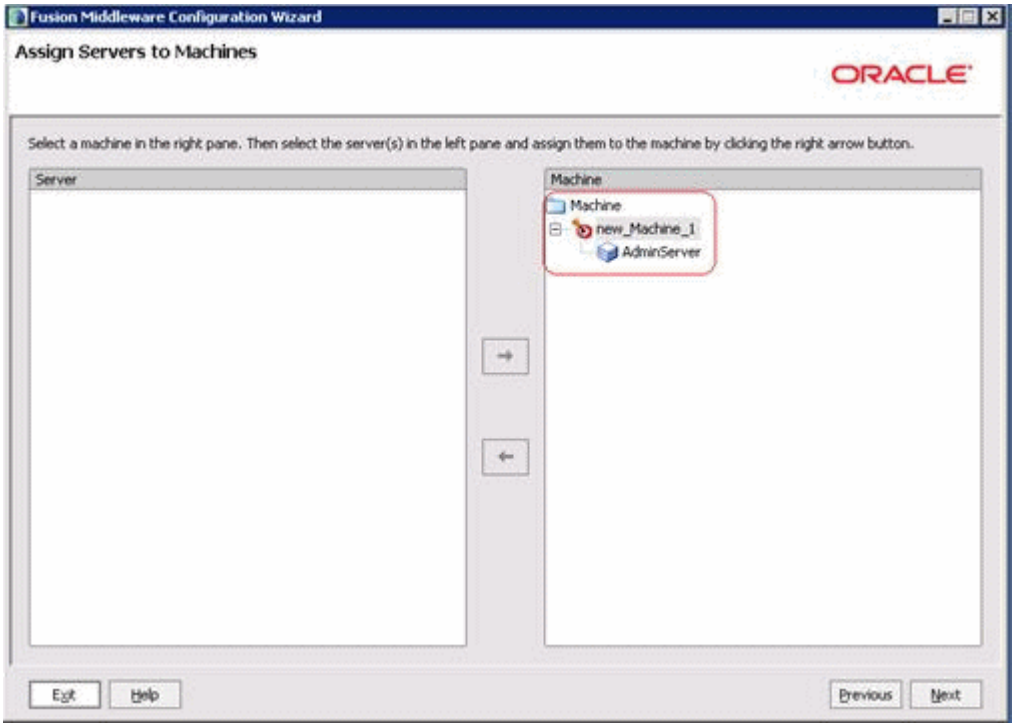
> **Note:** On UNIX platform, select the **Unix Machine** tab prior to clicking the **Add** button.



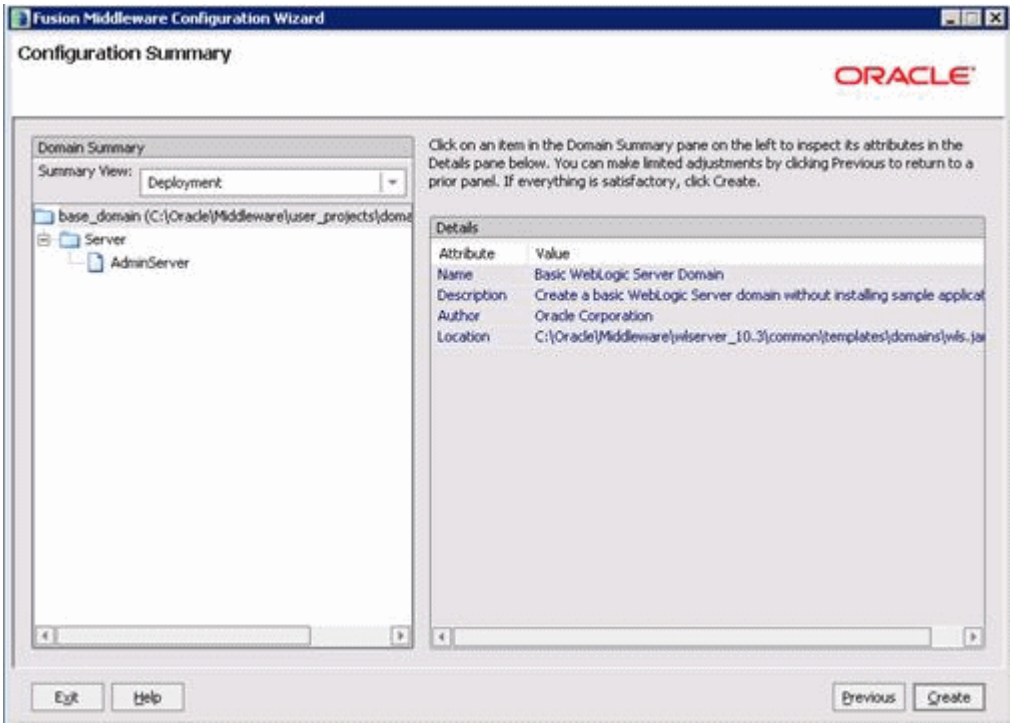
23. Enter a logical machine name.



24. Assign the server to your newly created machine name.

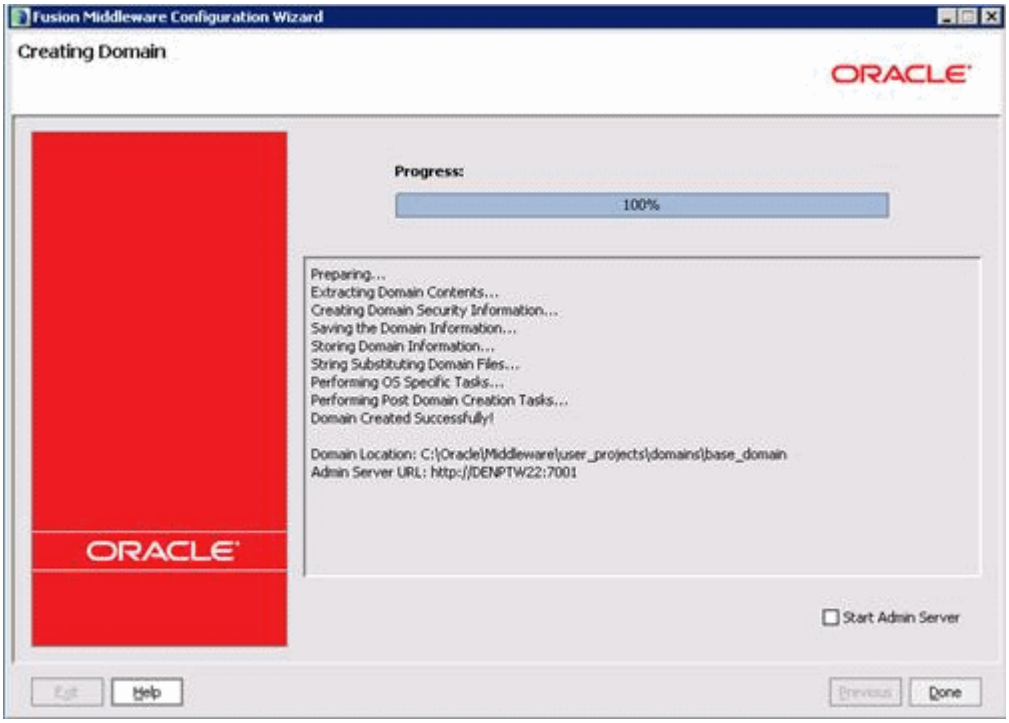


25. Review the Configuration Summary page.



26. Click **Create**.

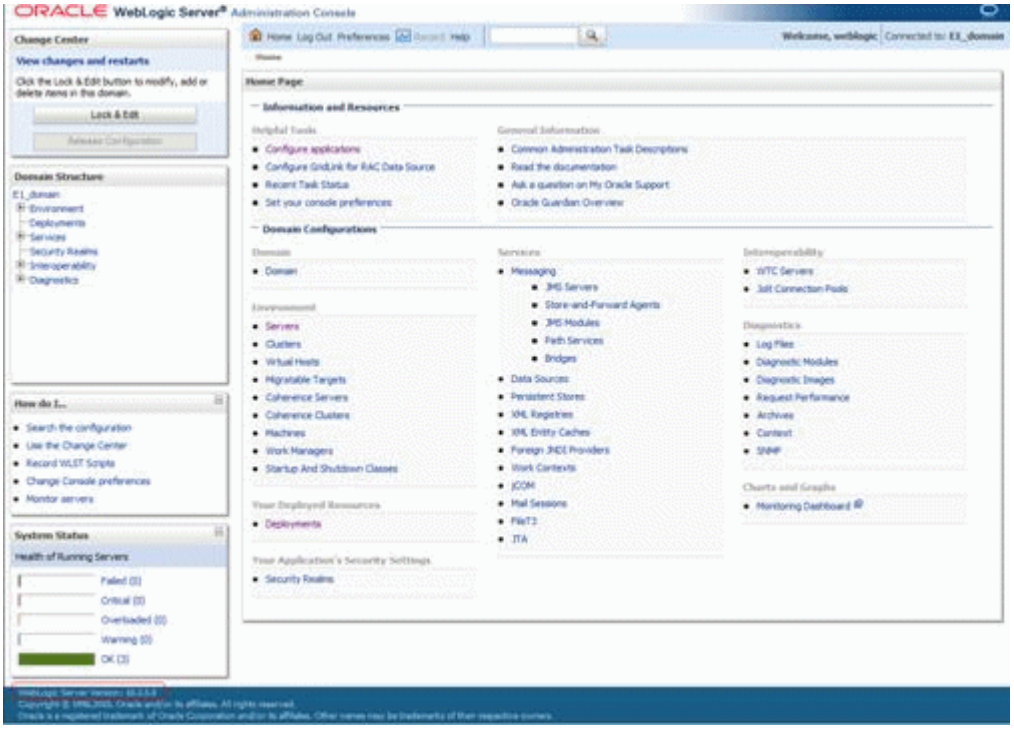
27. Review the domain information.



Now you can start the Admin Server process.

Launch the Admin Server console:

http://server:7001/console



C

Installing Oracle HTTP Server

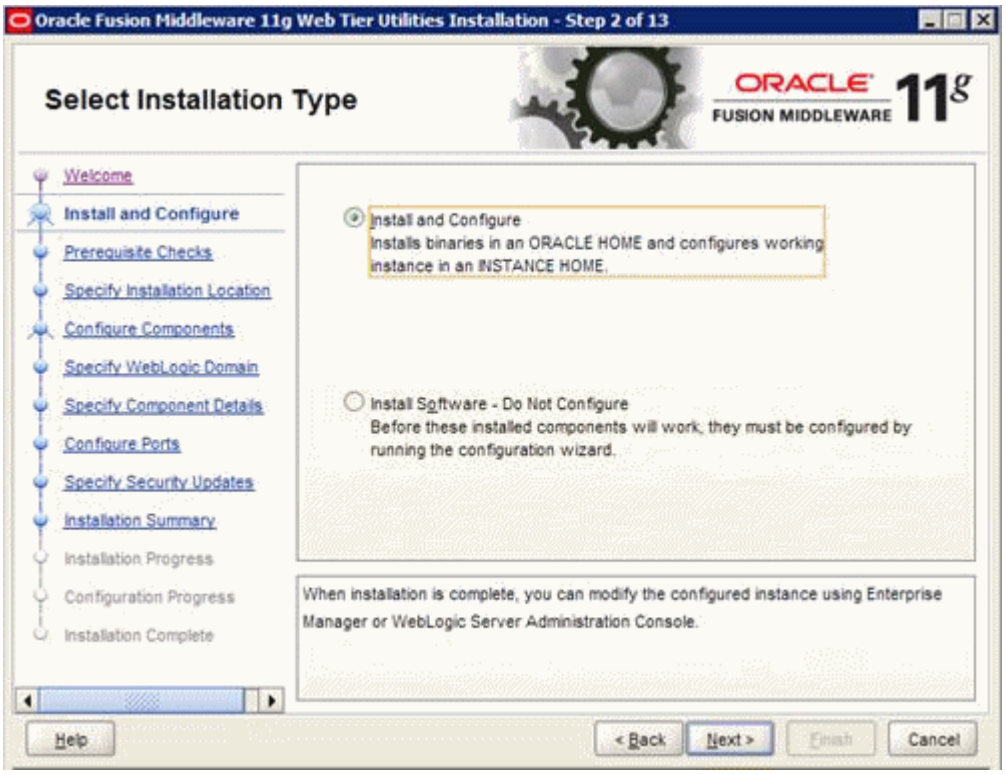
This appendix discusses installing the Oracle HTTP Server. First you install version 11.1.1.2, and then you upgrade to version 11.1.1.5.

C.1 Installing HTTP Server 11.1.1.2

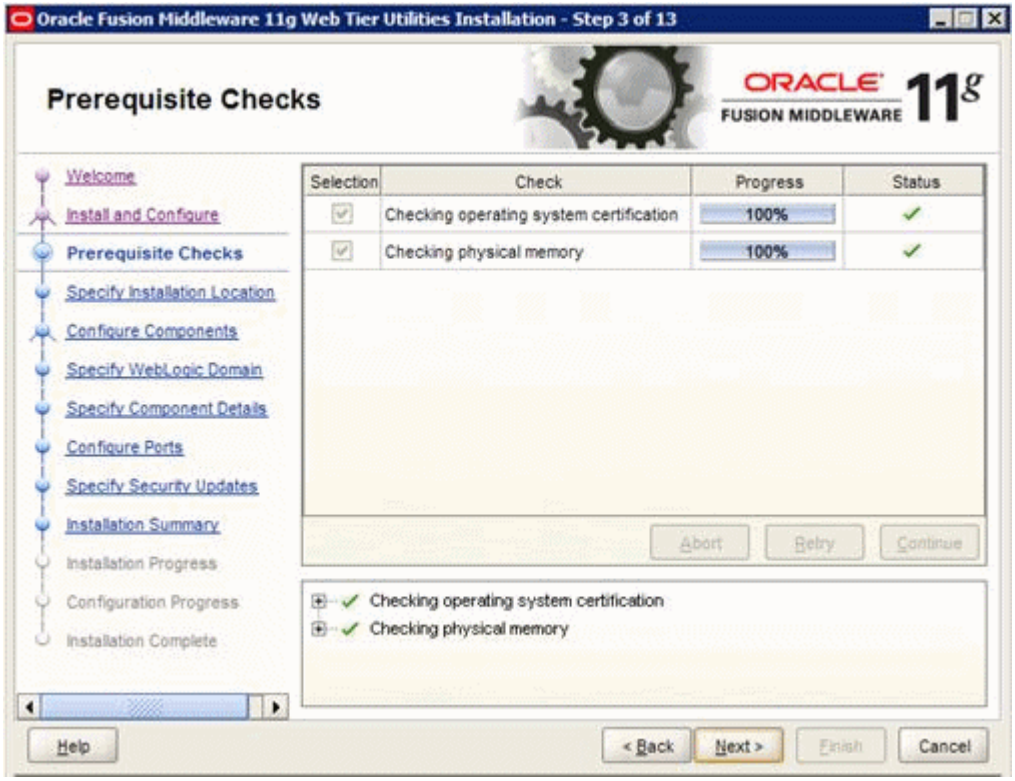
1. Download *ofm_webtier_win_11.1.1.2.0_64_disk1_1of1.zip* file.
2. Unzip the file.
3. Double-click *setup.exe*.

   This action opens the Oracle Fusion Middleware 11g Web Tier Utilities Installer.

4. Click **Next**.
5. On Select Installation Type, select the Install and Configure option.



6. Click **Next**.
7. On Prerequisite Checks, click **Next**.

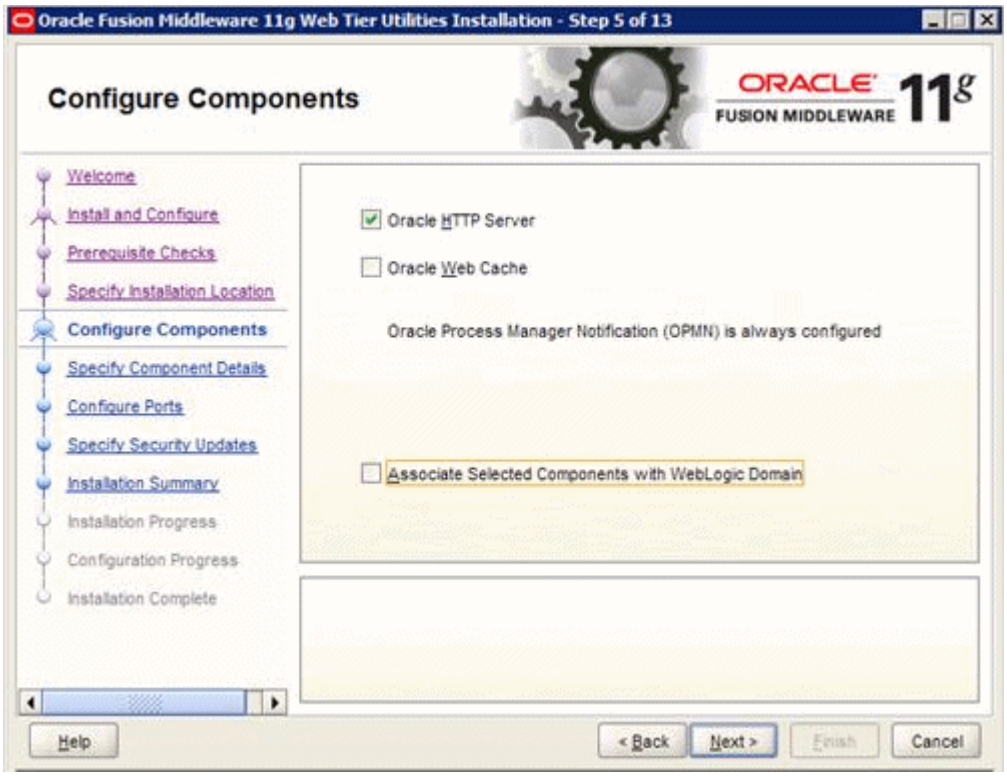


8. On Specify Installation, specify your Oracle Middleware Home and the Oracle Home Directory.

9. Click **Next**.

   Ignore the error message about WebLogic server needs to be installed in the same directory.

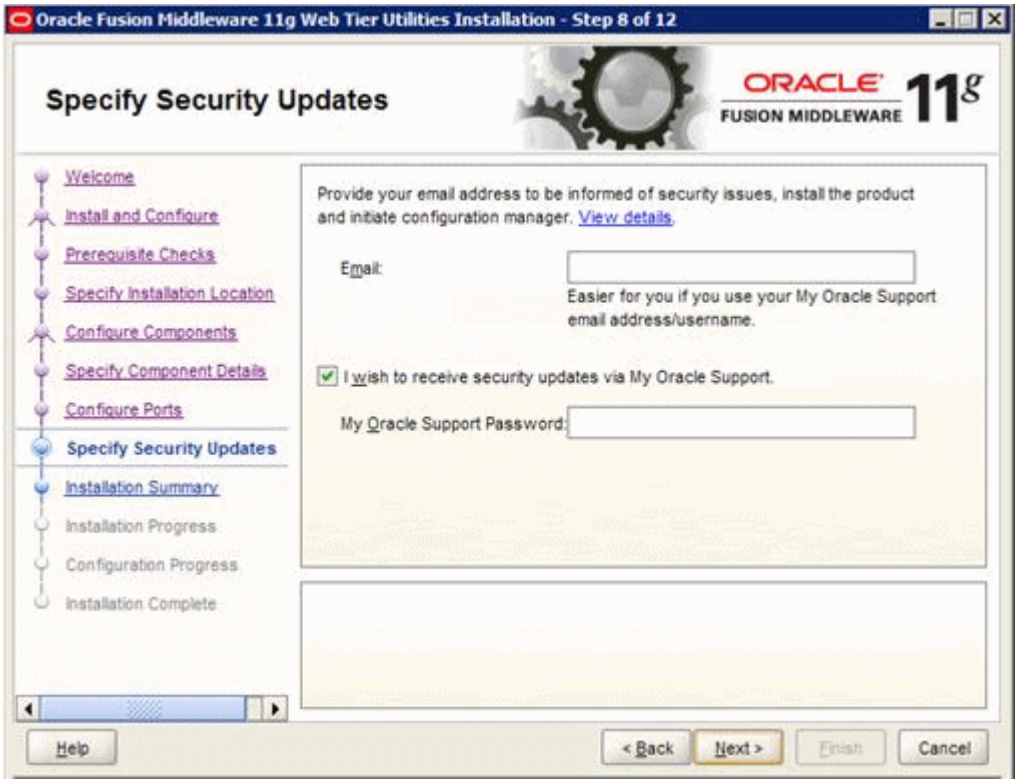
10. On Configure Components, select only the **Oracle HTTP Server** option.



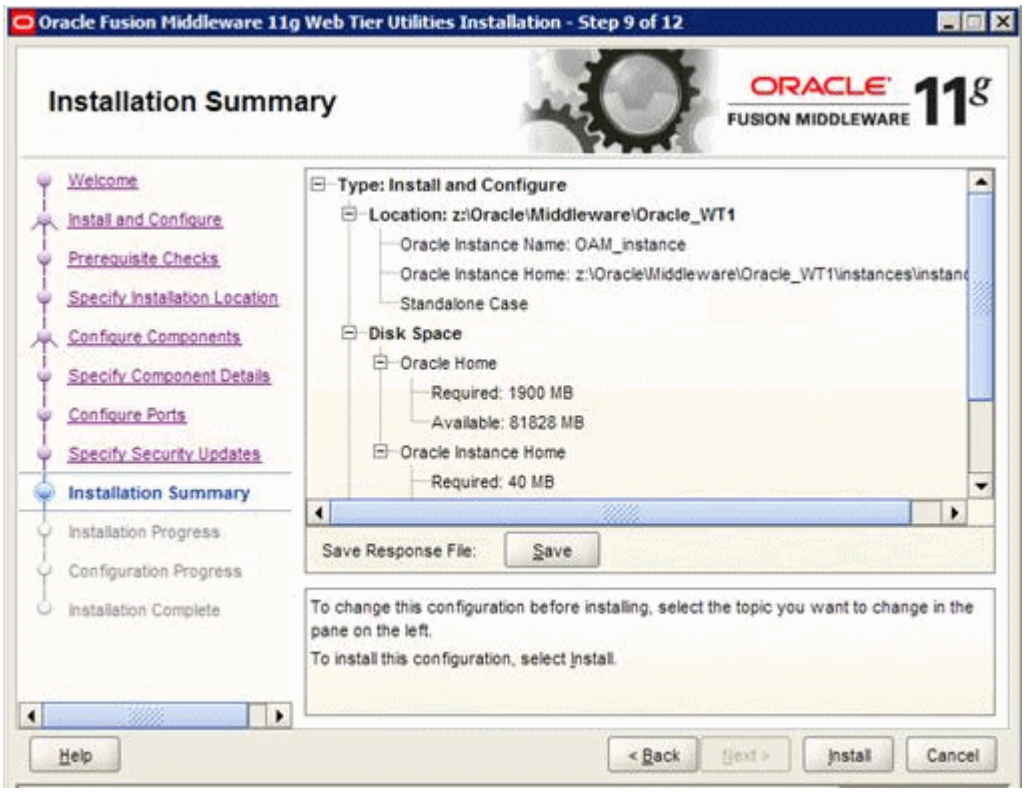
11. Click **Next**.
12. On Specify Component Details, complete these fields:
    - Instance Home Location
    - Instance Name
    - OHS Component Name

13. Click **Next**.
14. On Configure Ports, accept the default option, Auto Port Configuration.

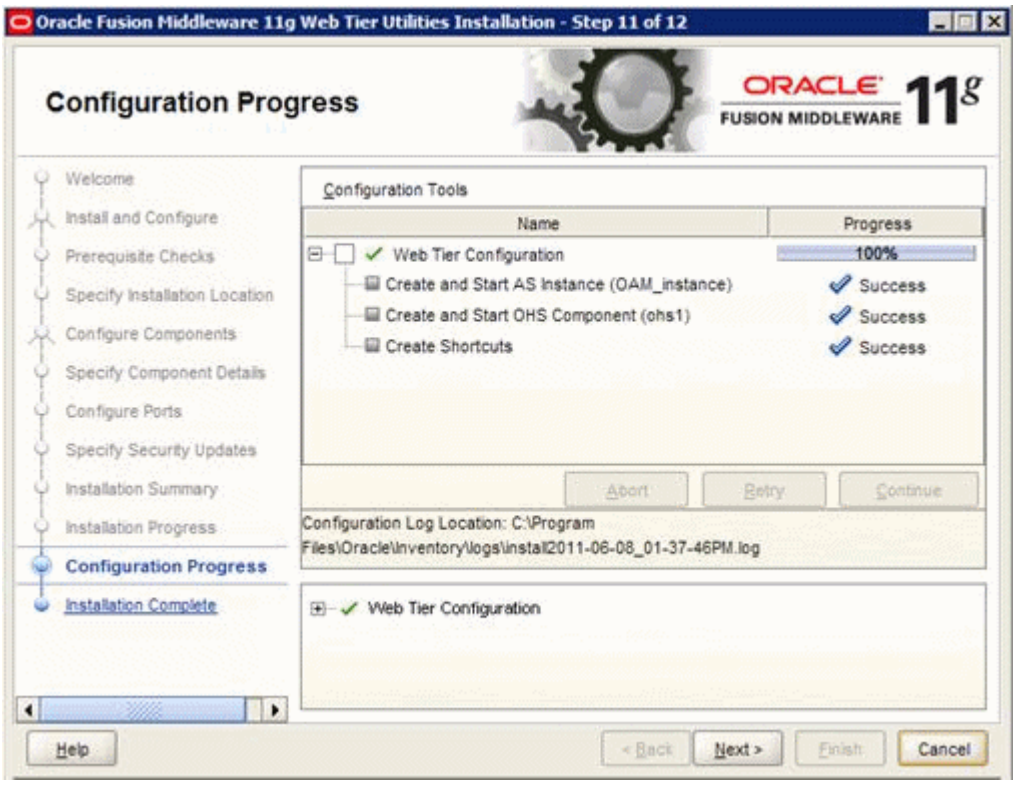
15. Click **Next**.
16. On Specify Security Updates, provide your contact information.



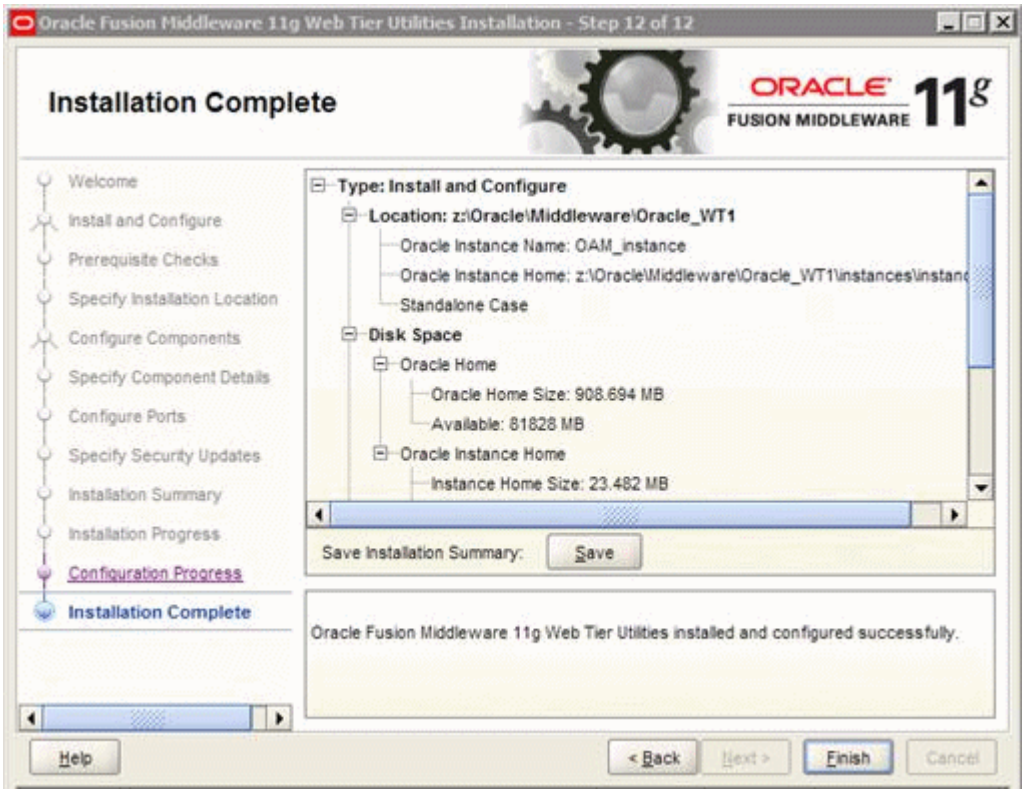
17. Click **Next**.
18. On Installation Summary, review the information.



19. Click **Install.**
20. Click **Next** after the install is completed.
21. On Configuration Progress, review the information.



22. Click **Next**.
23. On Installation Complete, click **Finish**.



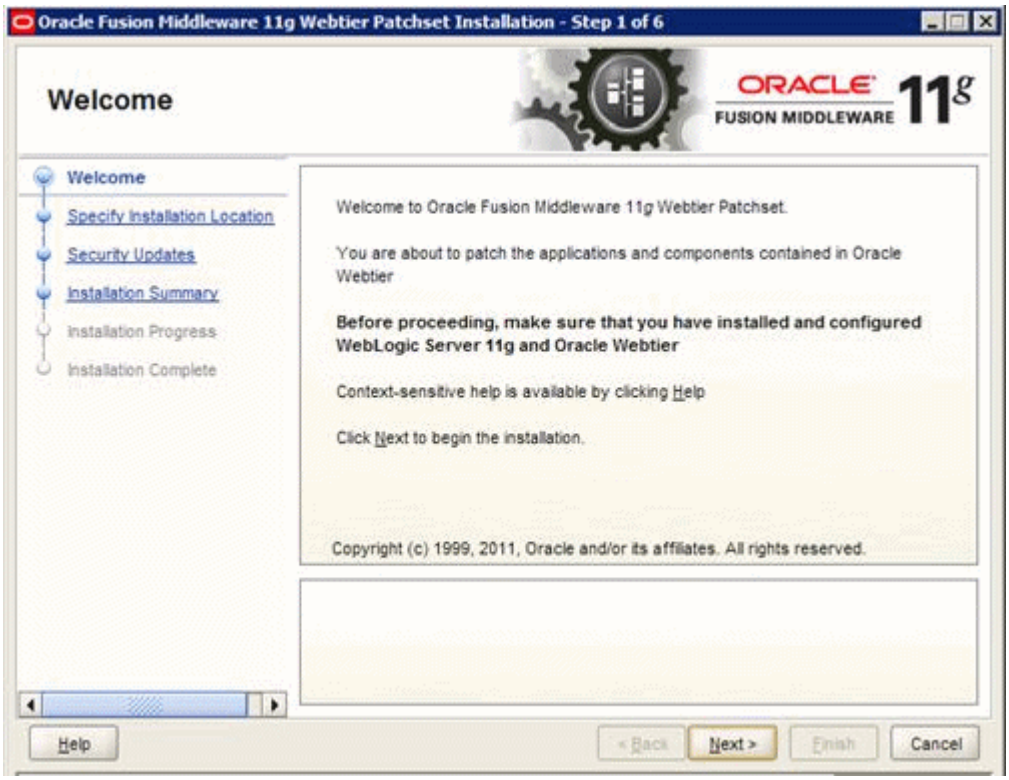
C.2 Upgrading Oracle HTTP Server to Version 11.1.1.5

After you successfully install Oracle HTTP Server 11.1.1.2, run Patch to upgrade Oracle HTTP Server to version 11.1.1.5.

1. Open the Windows Services and stop the HTTP process from the previous installation or from the bin directory of the HTTP instance, run the *opmnctl stopall* command.

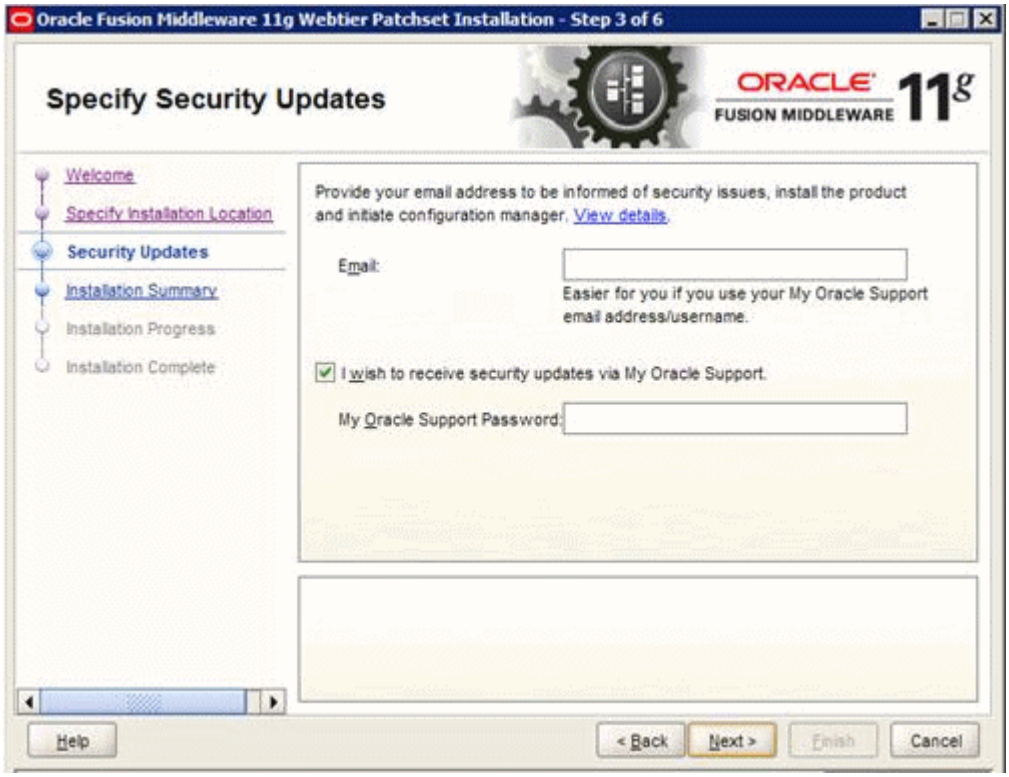
2. Download *p12395115_webtier_111150_MSWIN-x86-64.zip* file or the one that matches your platform.
3. Unzip the file.
4. Double-click *setup.exe* from Disk1.

   This action opens the Oracle Fusion Middleware 11g WebTier Patchset Installer

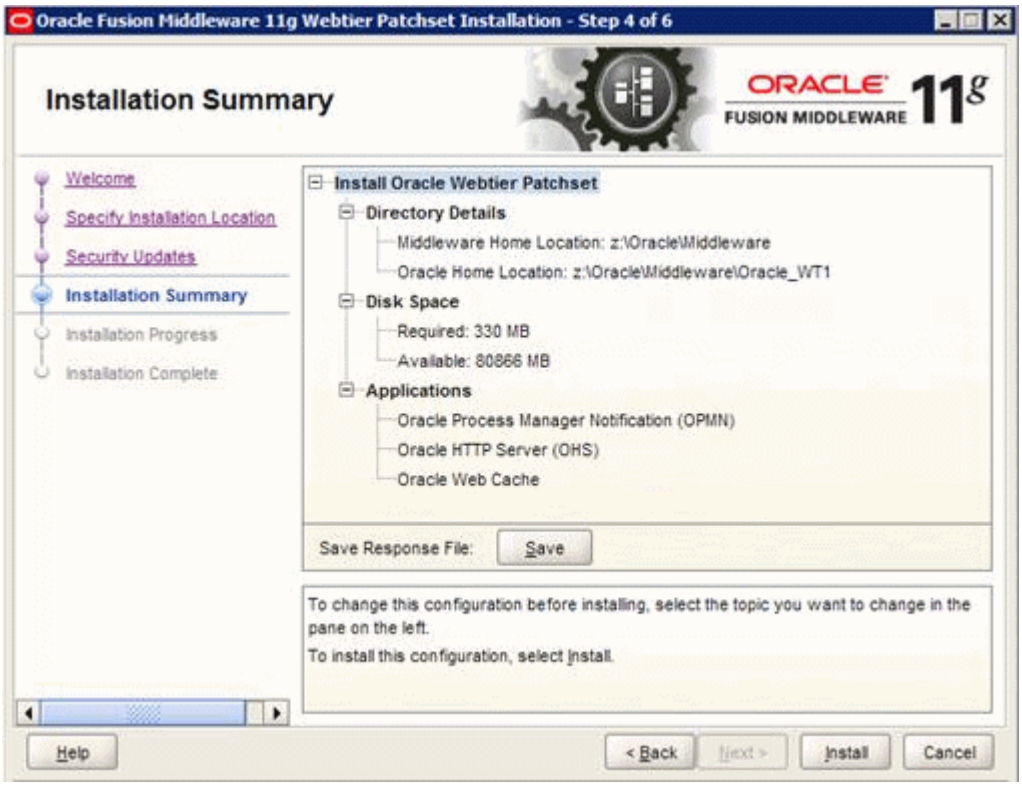


5. Click **Next**.
6. Select the existing Web Tier Home.

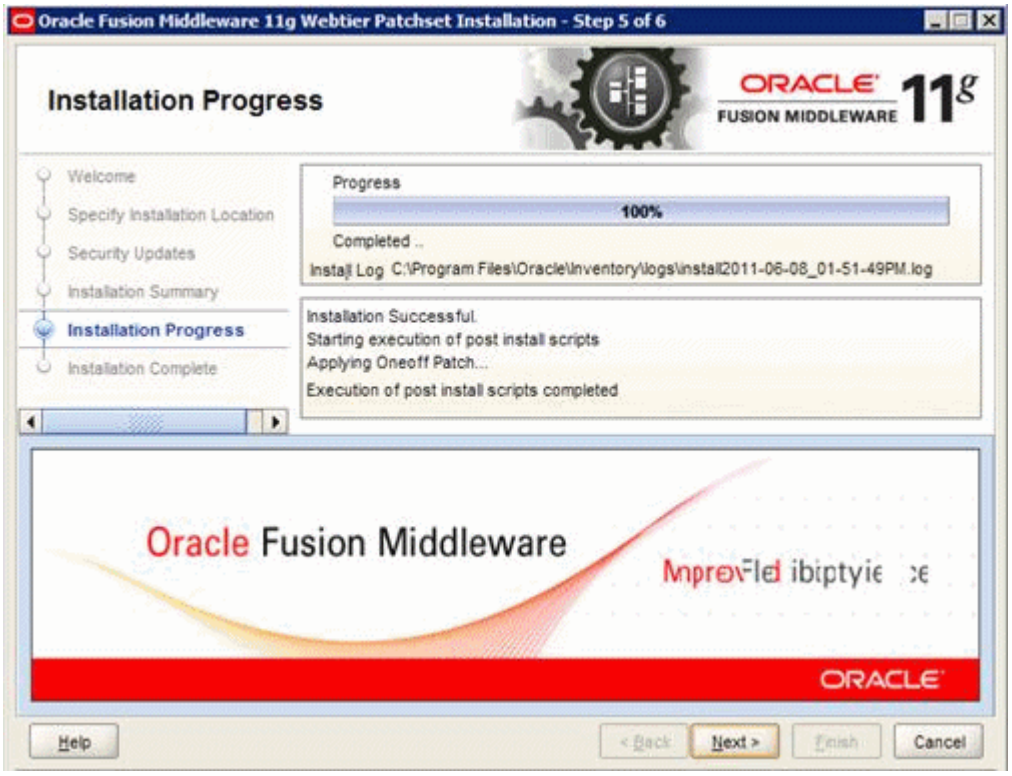
7. Enter the Security Updates information.



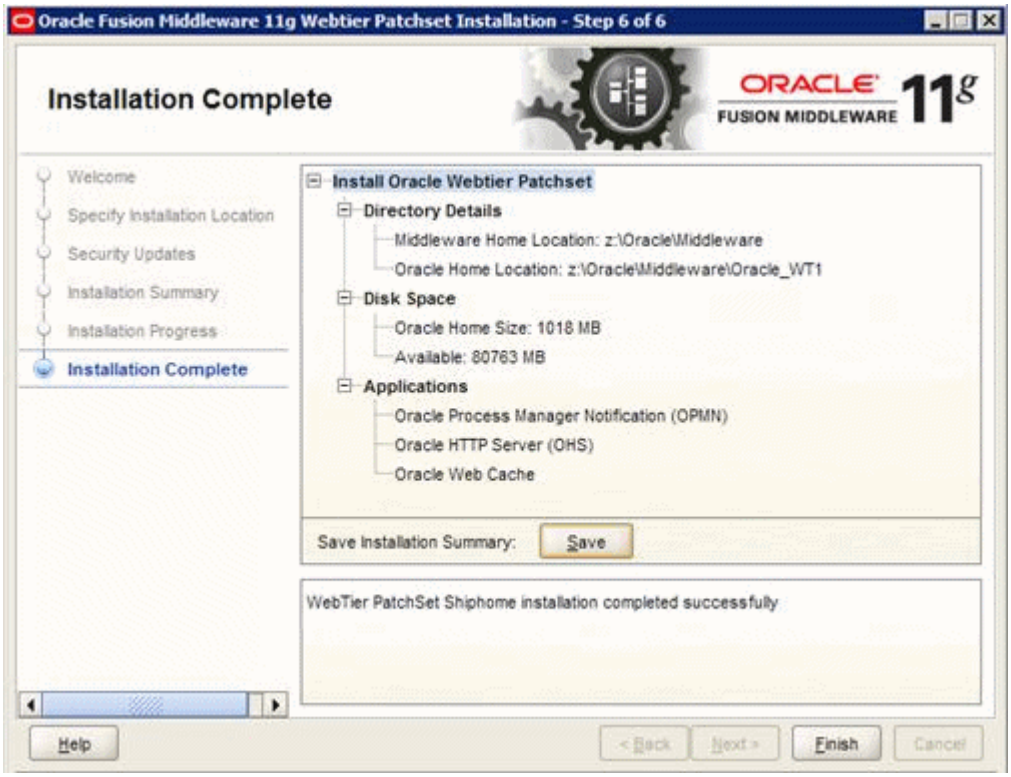
8. Review the Installation Summary.



9. Click **Install**.
10. Click **Next** when the install completed.



11. Click **Finish** to exit the installer.



12. Restart the process from Windows Services or use the *opmnctl startall* command.