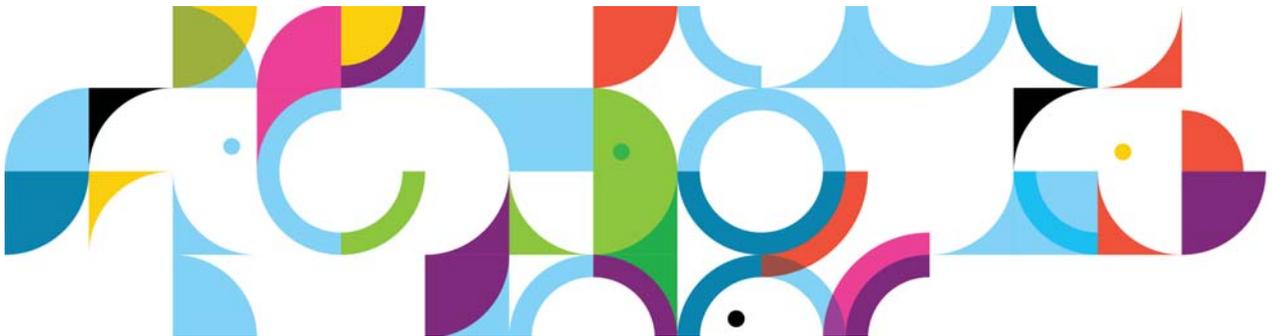


*IBM Connections 4 Public
Deployment Scenarios*

Deployment Scenarios

ERC 1.0



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IBM Connections 4: PDS migration (side by side)

About the author



Xiao Jin Zhao works on the Connections system verification test team and has four years' experience with Connections and six years' experience in testing. She is familiar with Connections product and other ICS portfolio, including installing, configuring, administration, use, and troubleshooting issues. Xiao Jin can be reached at zhaoxjin@cn.ibm.com.

Contents

1. Pre-installation
2. Post-installation
3. Post-actions after installation agent

1. Pre-installation

Install base software and apply fixpacks/ifixes

Install WebSphere Application Server

Install WebSphere Application Server 7.0 as DM and Nodes, follow the normal steps for WebSphere Application Server installation.

Install Fixpack for WebSphere Application Server

To install WebSphere Update installer follow the normal way. Also, use update installer to apply WebSphere Application Server 70021 fix pack.(see snapshot of installation in section "Install Fixpack for IHS").

Then, apply Connections 4.0 needed fixes to both DM and Node WebSphere Application Server:

WebSphere Application Server required fixes for 7.0.0.21:

1. PM53930
2. PM56596
3. PM60895
4. PM51981
5. PM65486



Information

Visit this link for further information:

<http://publib.boulder.ibm.com/infocenter/prodguid/v1r0/clarity-reports/report/html/prereqsForProduct?deliverableId=1284667107599>

1. Open the IBM Update Installer for WebSphere Software wizard and click **Next**.

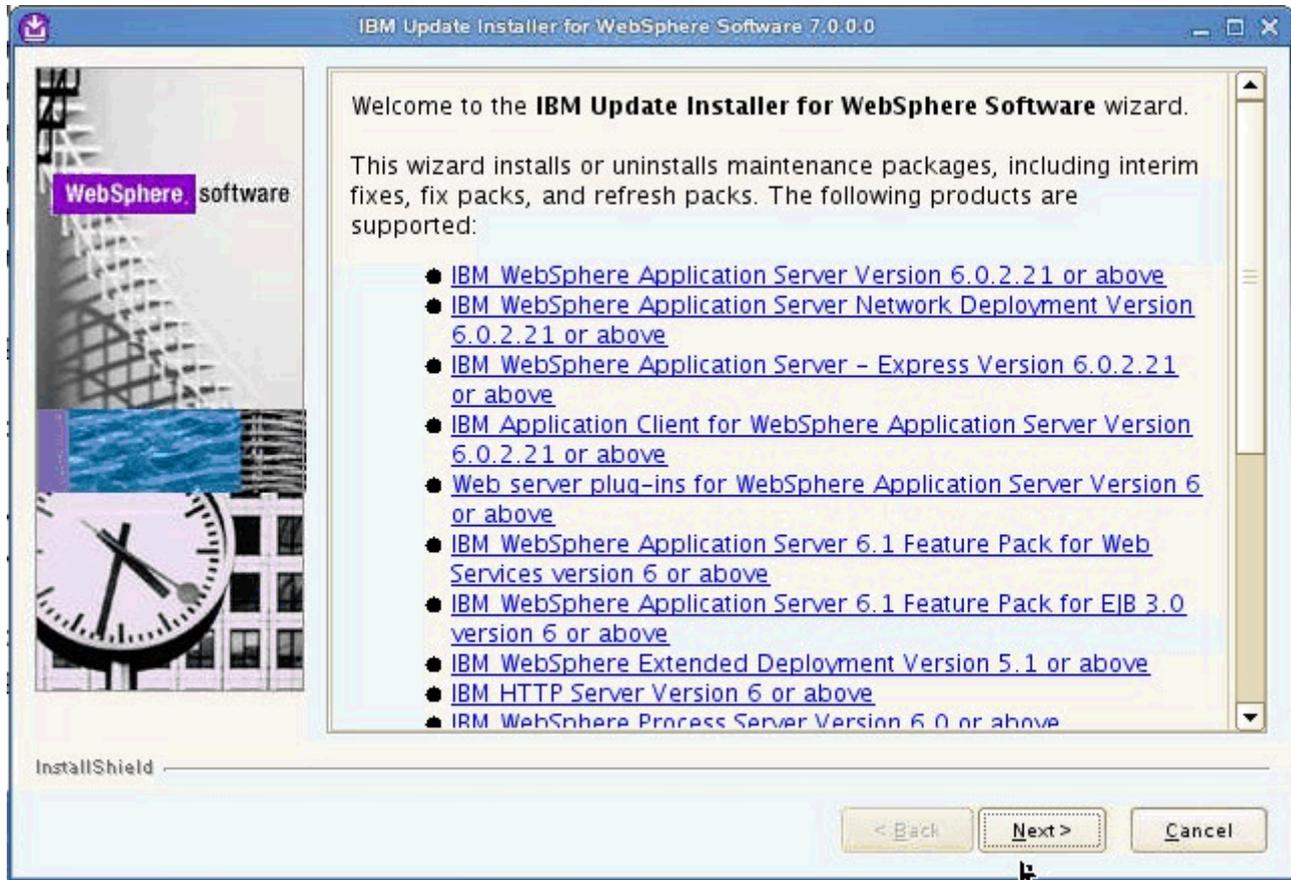


Figure 1. IBM Update Installer for WebSphere Software wizard: Welcome screen

2. Enter the installation location for the product you want to install and click **Next**.

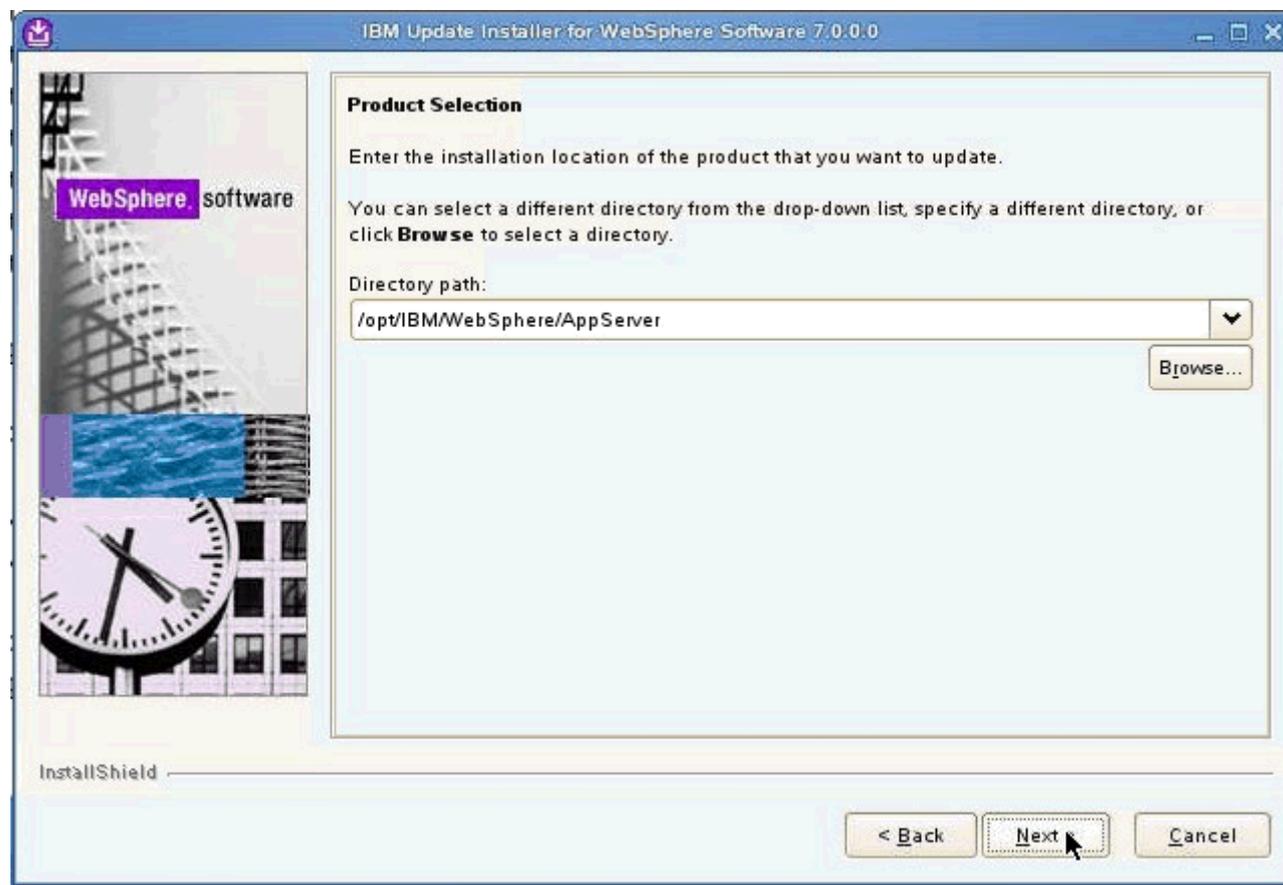


Figure 2. IBM Update Installer for WebSphere Software wizard: Installation location screen

3. On the Maintenance Operation Selection screen, select the option "Install maintenance package" and click **Next**.

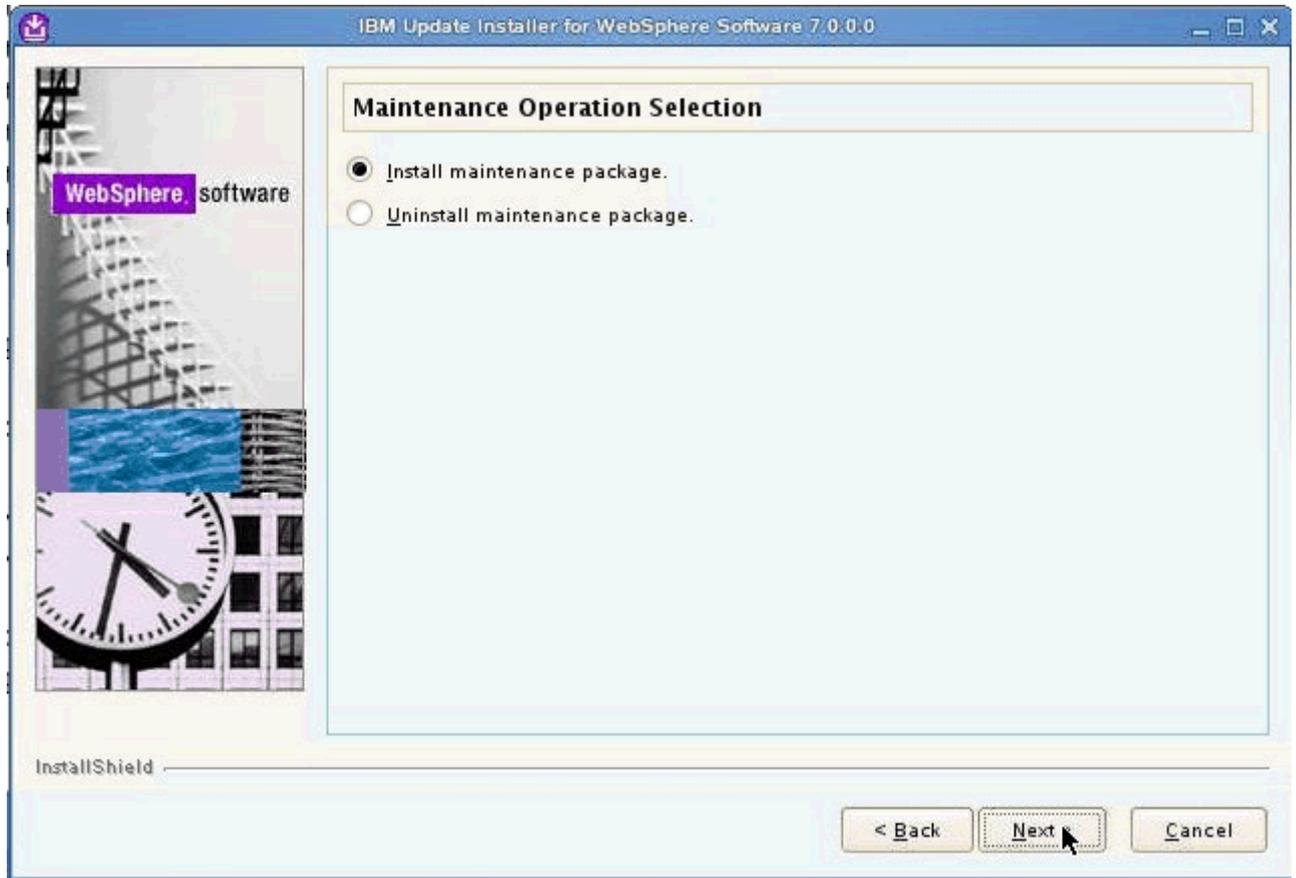


Figure 3. IBM Update Installer for WebSphere Software wizard: Maintenance Operation Selection screen

4. Select the package directory and click **Next**.

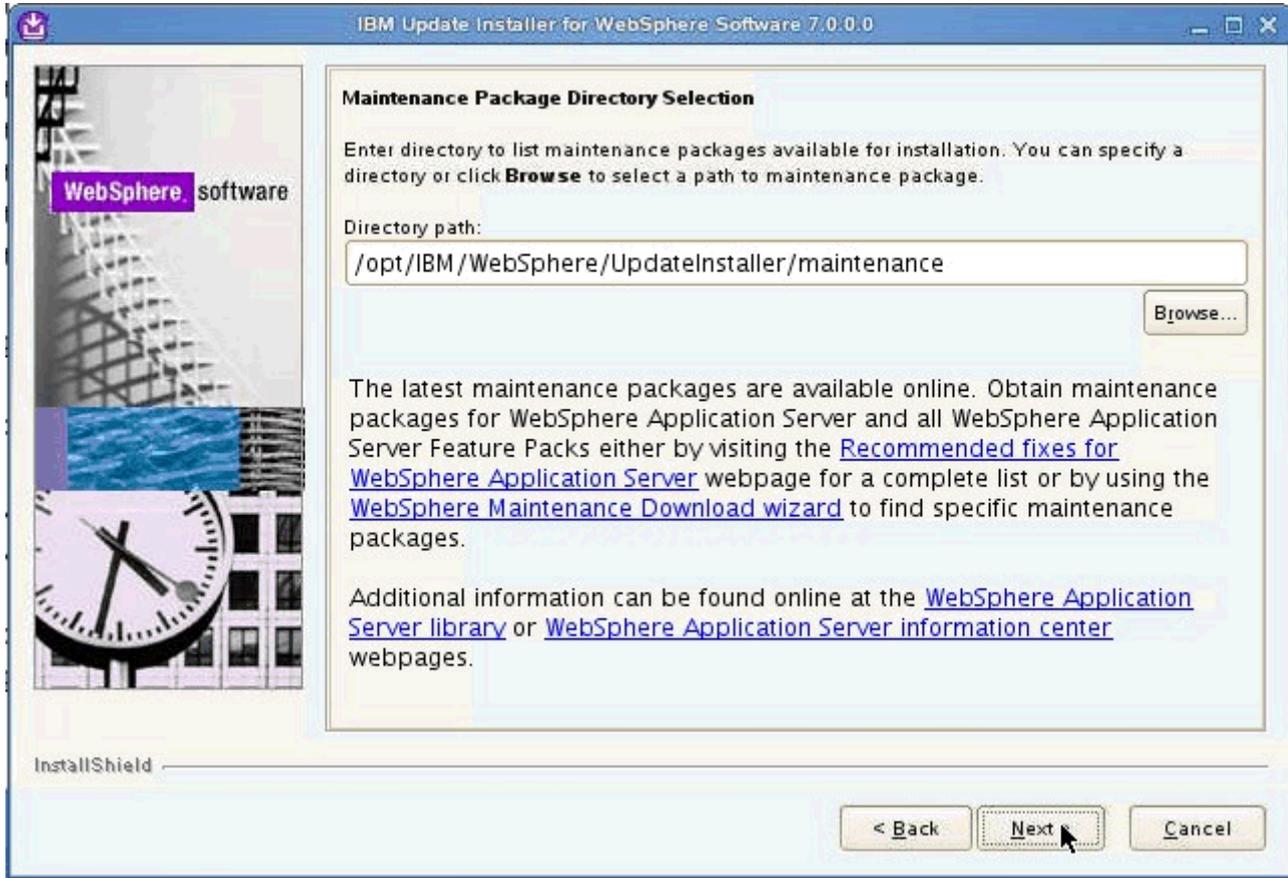


Figure 4. IBM Update Installer for WebSphere Software wizard: Maintenance Package Directory Selection screen

5. Select the packages to install and click **Next**.

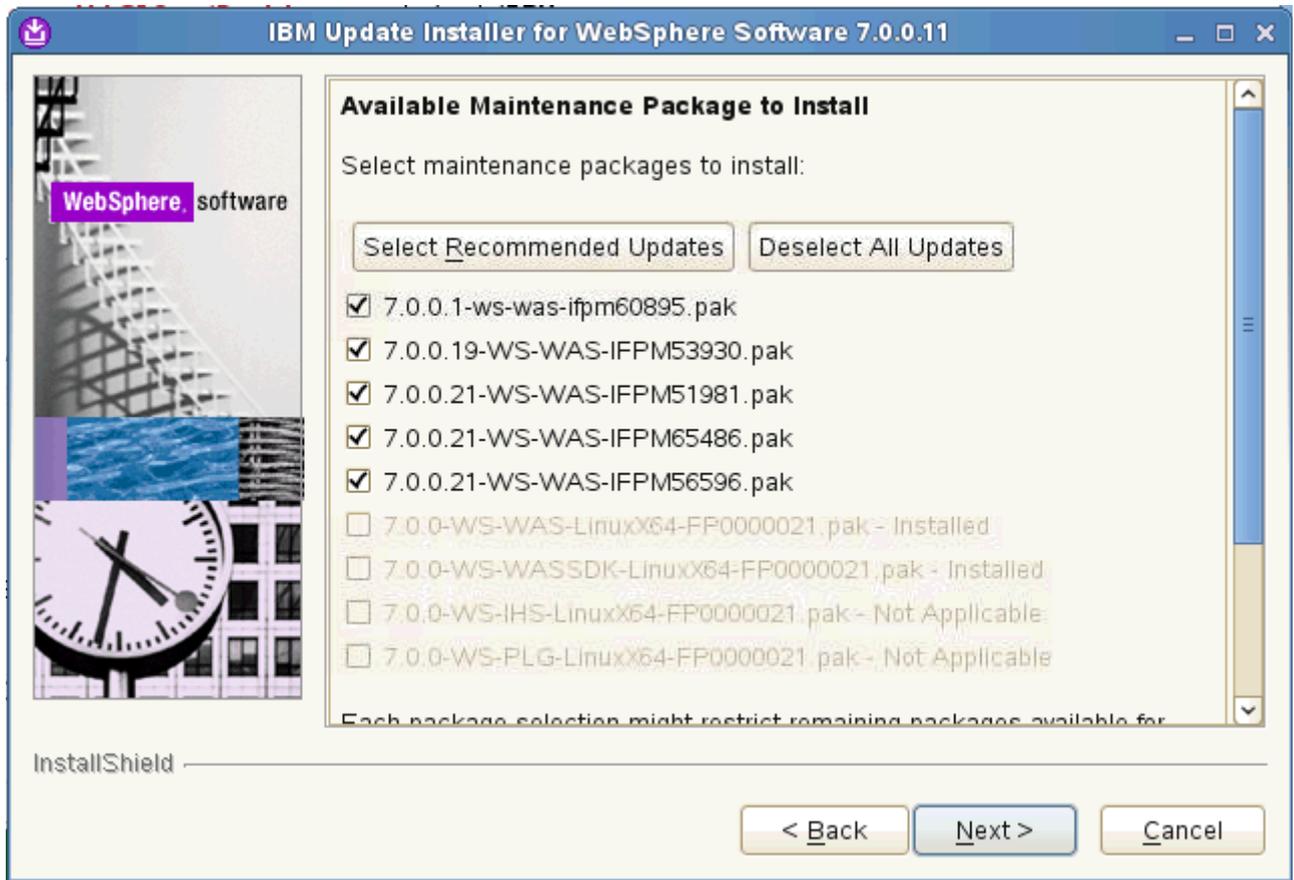


Figure 5. IBM Update Installer for WebSphere Software wizard: Available Maintenance Package to Install screen

The installation wizard checks for prerequisites.

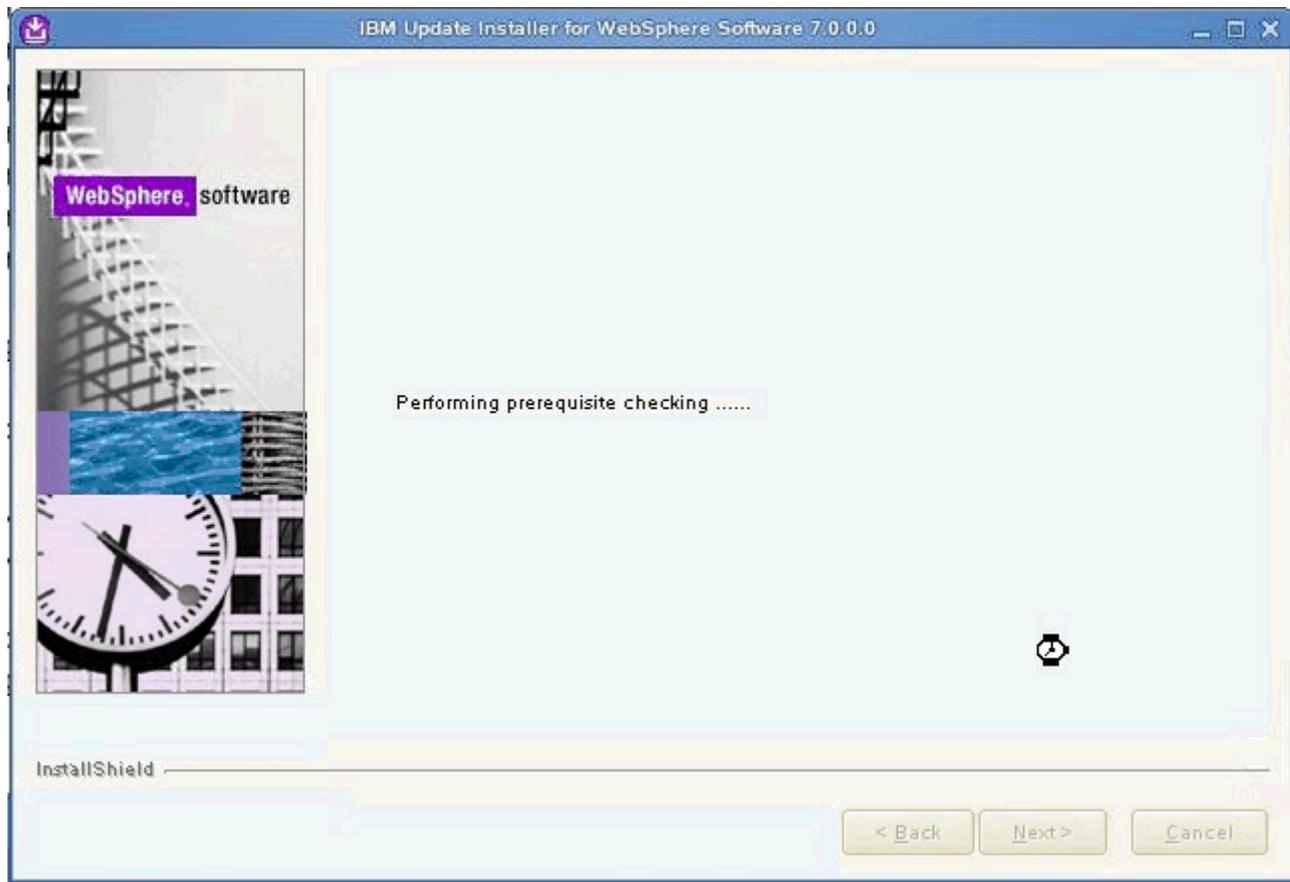


Figure 6. IBM Update Installer for WebSphere Software wizard: Prerequisite checking

6. Verify the installation summary and click **Next**.

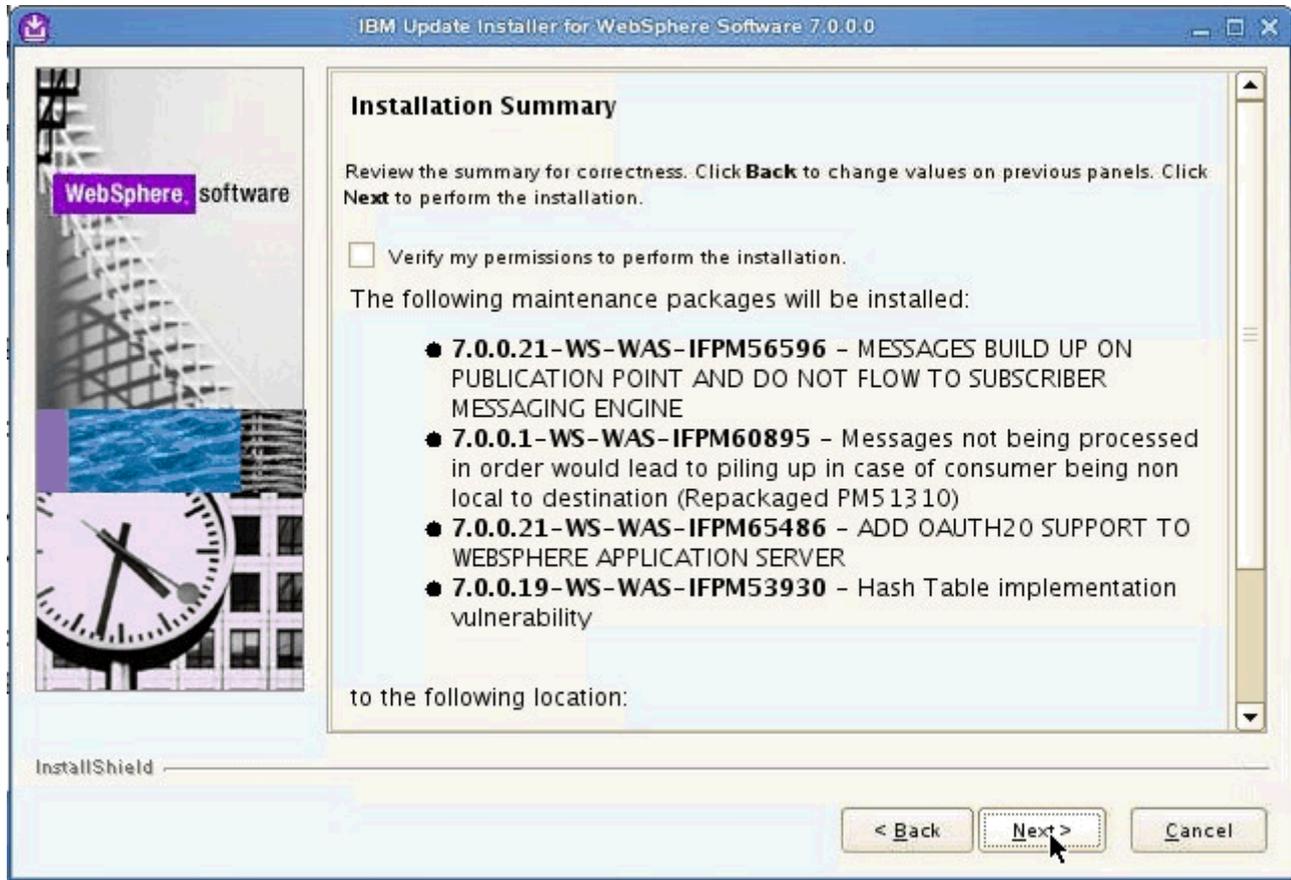


Figure 7. IBM Update Installer for WebSphere Software wizard: Installation summary screen

The installation starts.

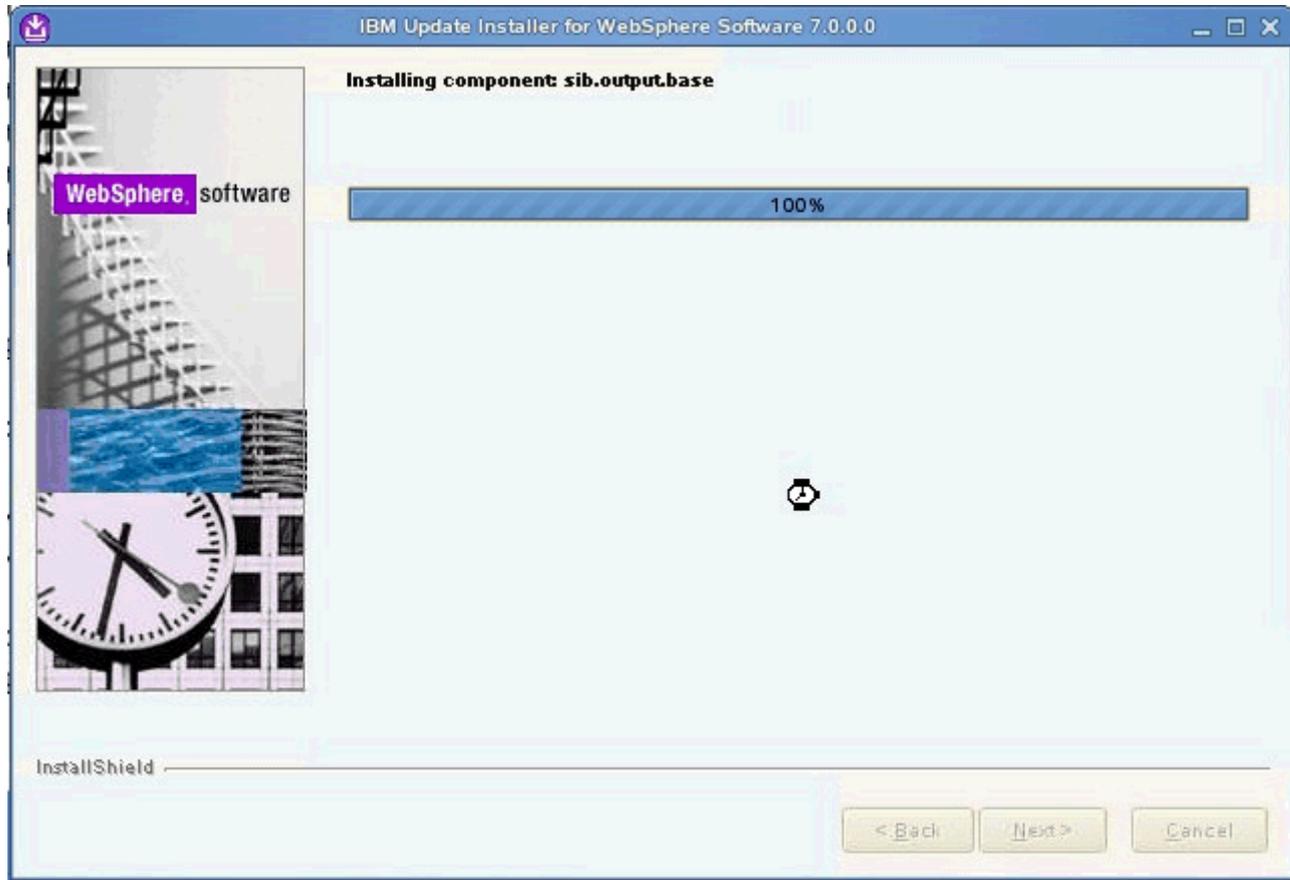


Figure 8. IBM Update Installer for WebSphere Software wizard: Installation in progress

7. The installation completes. Click **Finish**.

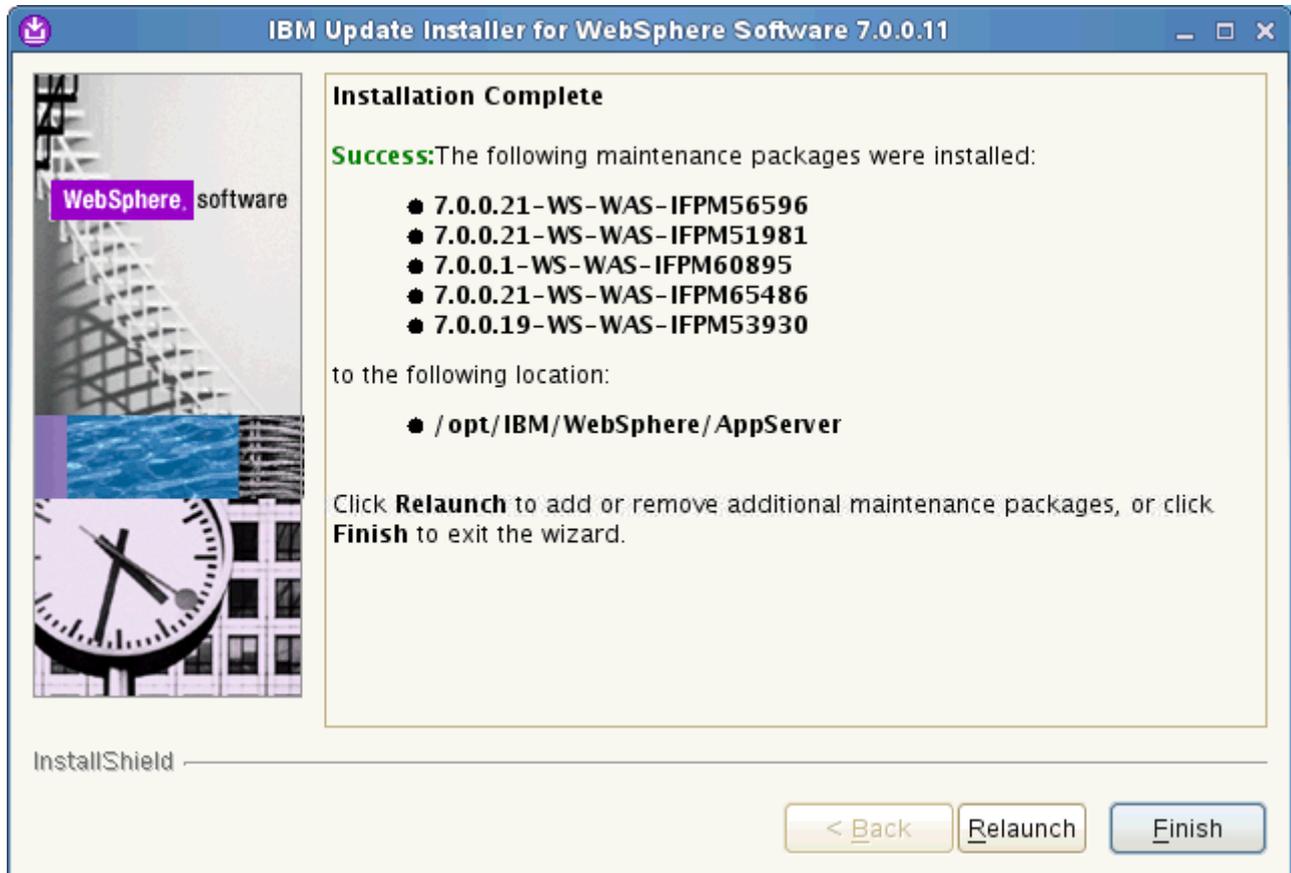


Figure 9. IBM Update Installer for WebSphere Software wizard: Installation completion screen

Install IHS

1. Under WebSphere Application Server Network Deployment > IBM HTTP Server Installation, click **Launch the installation wizard for IBM HTTP Server**.

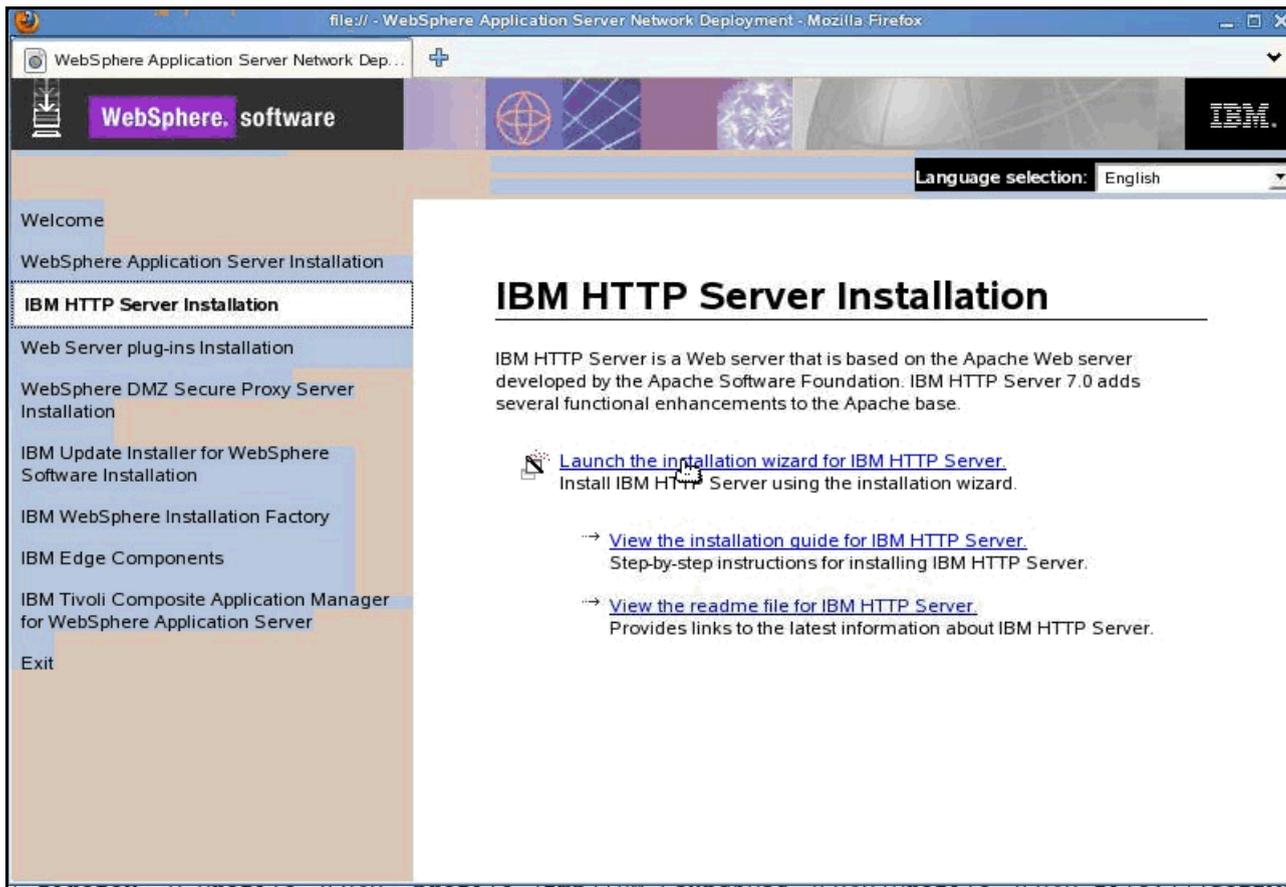


Figure 10. WebSphere Application Server Network Deployment

2. The installation wizard for IBM HTTP Server 7.0 opens. Click **Next**.

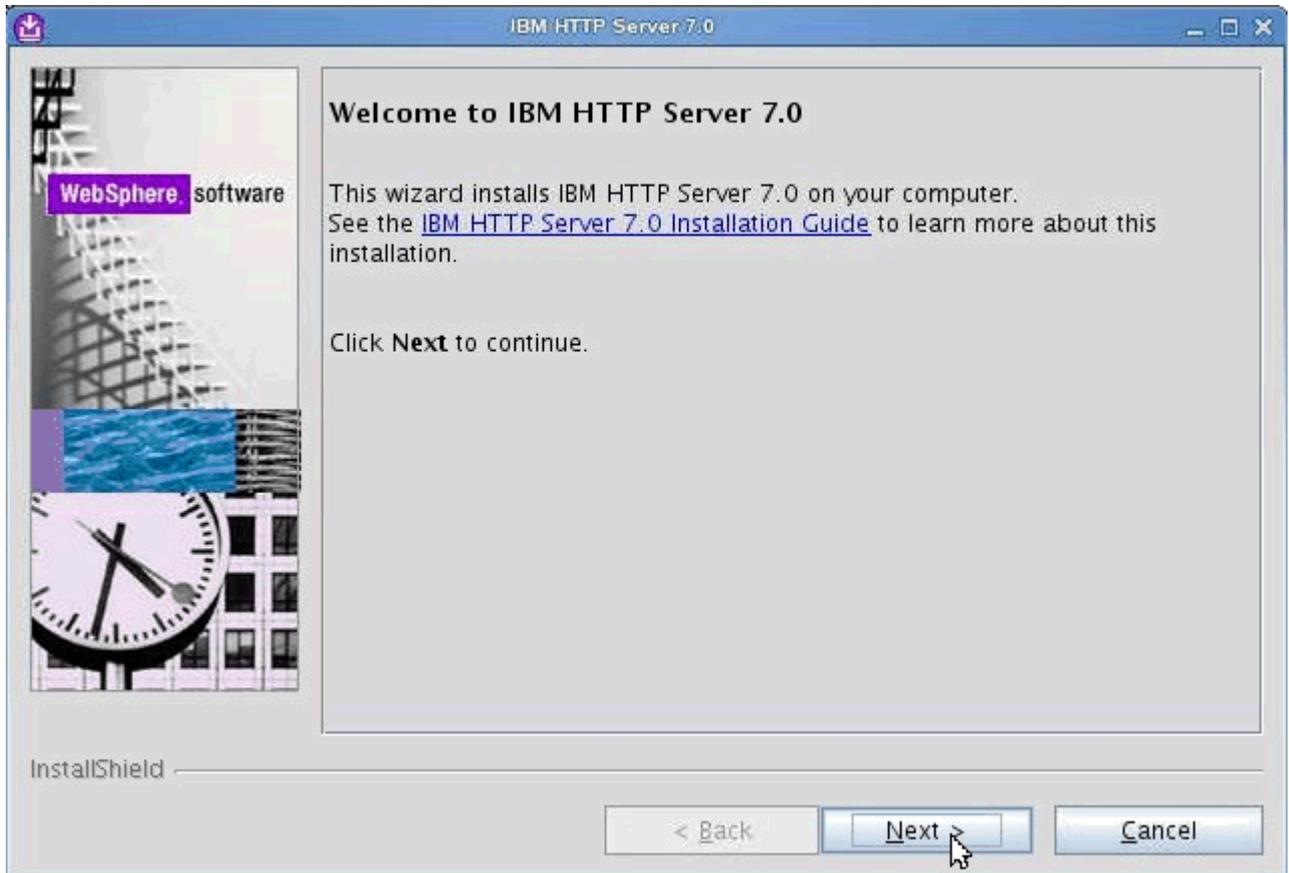


Figure 11. IBM HTTP Server 7.0 installation wizard: Welcome screen

3. Accept both the IBM and the non-IBM terms and click **Next**.

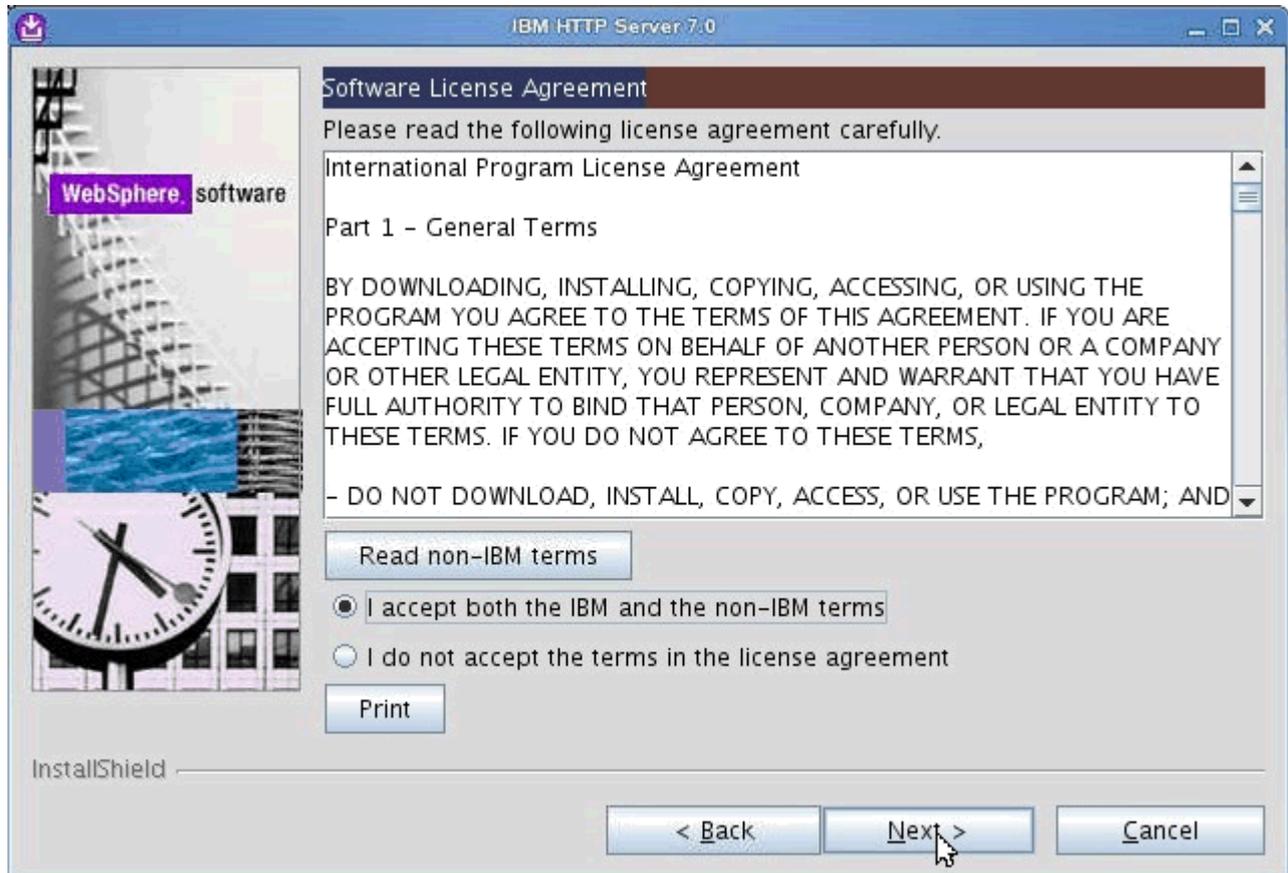


Figure 12. IBM HTTP Server 7.0 installation wizard: Software License Agreement screen

4. The prerequisites are checked. Click **Next** if passed.

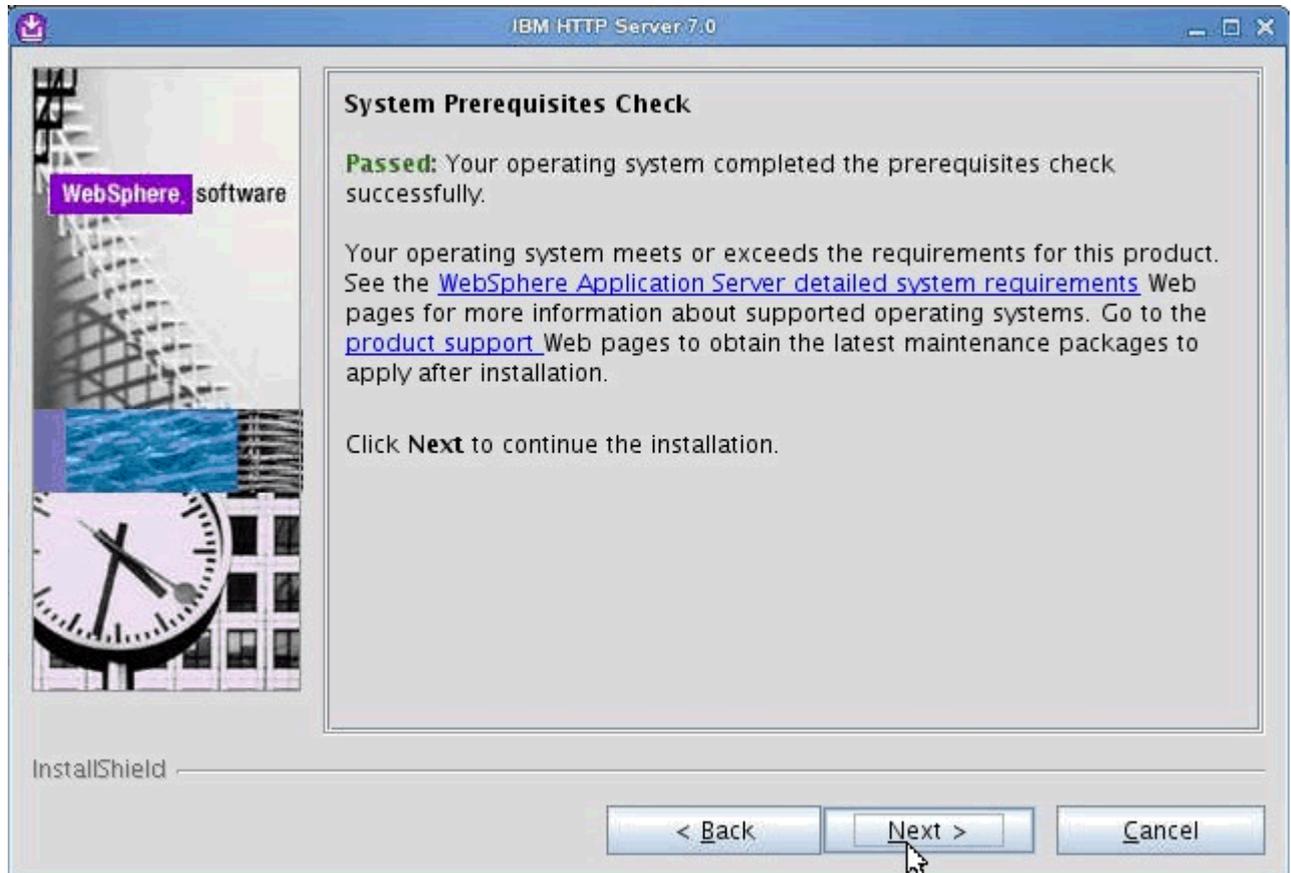


Figure 13. IBM HTTP Server 7.0 installation wizard: System Prerequisites Check screen

5. Select the product installation location and click **Next**.

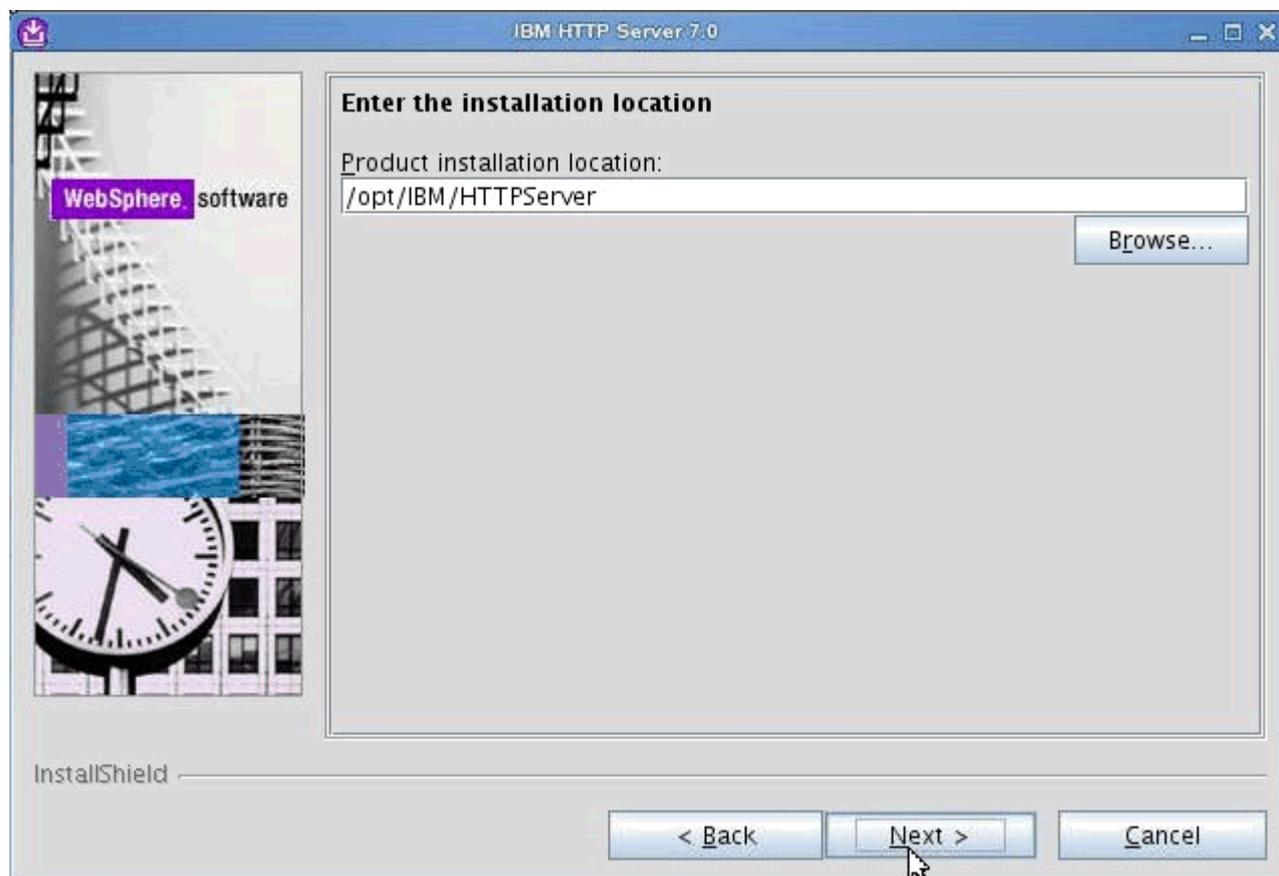


Figure 14. IBM HTTP Server 7.0 installation wizard: Installation location screen

6. Assign the values for the HTTP Port and the HTTP Administration Port and click **Next**.

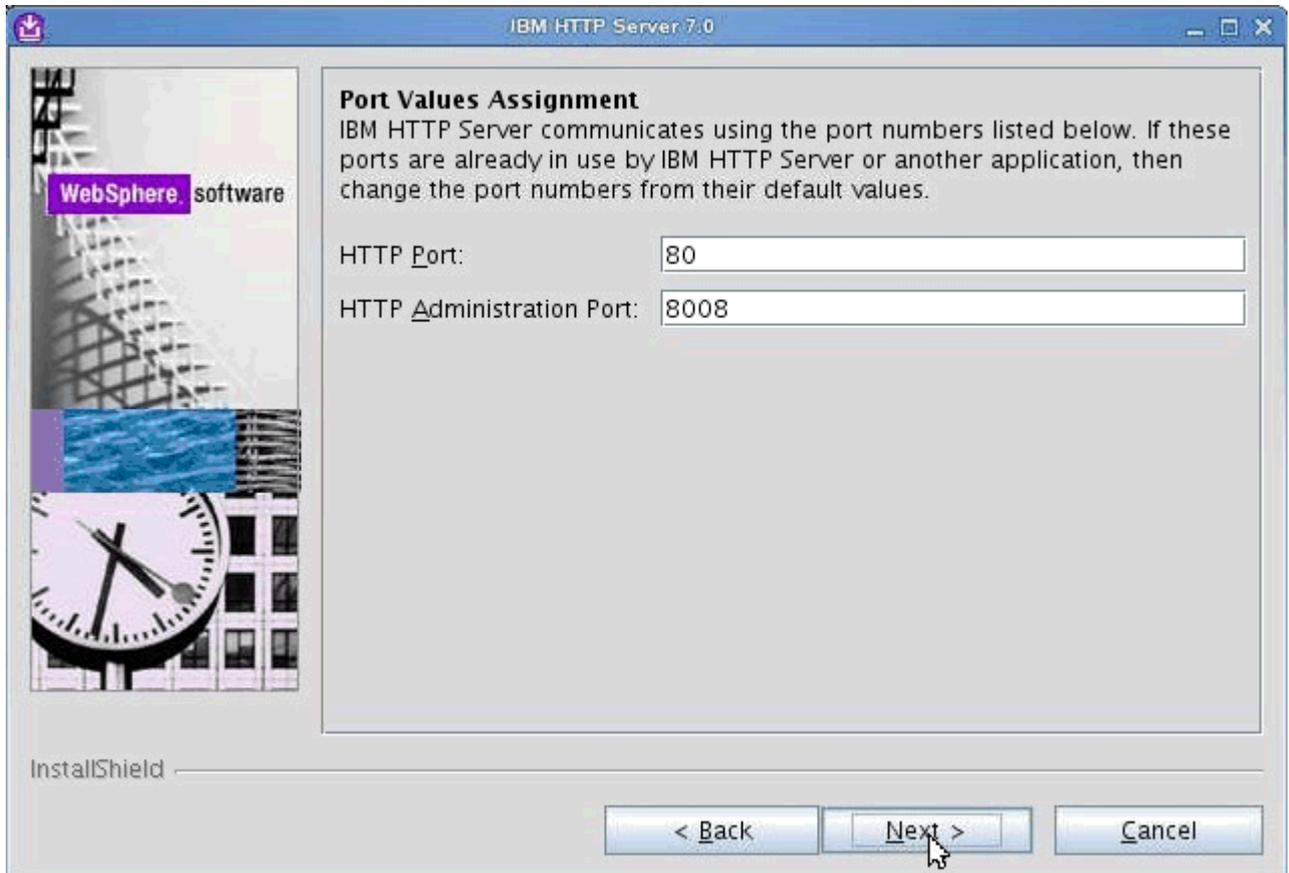


Figure 15. IBM HTTP Server 7.0 installation wizard: Port Values Assignment screen

- 7. Create a user/password to authenticate to the IBM HTTP Server administration and click **Next**.

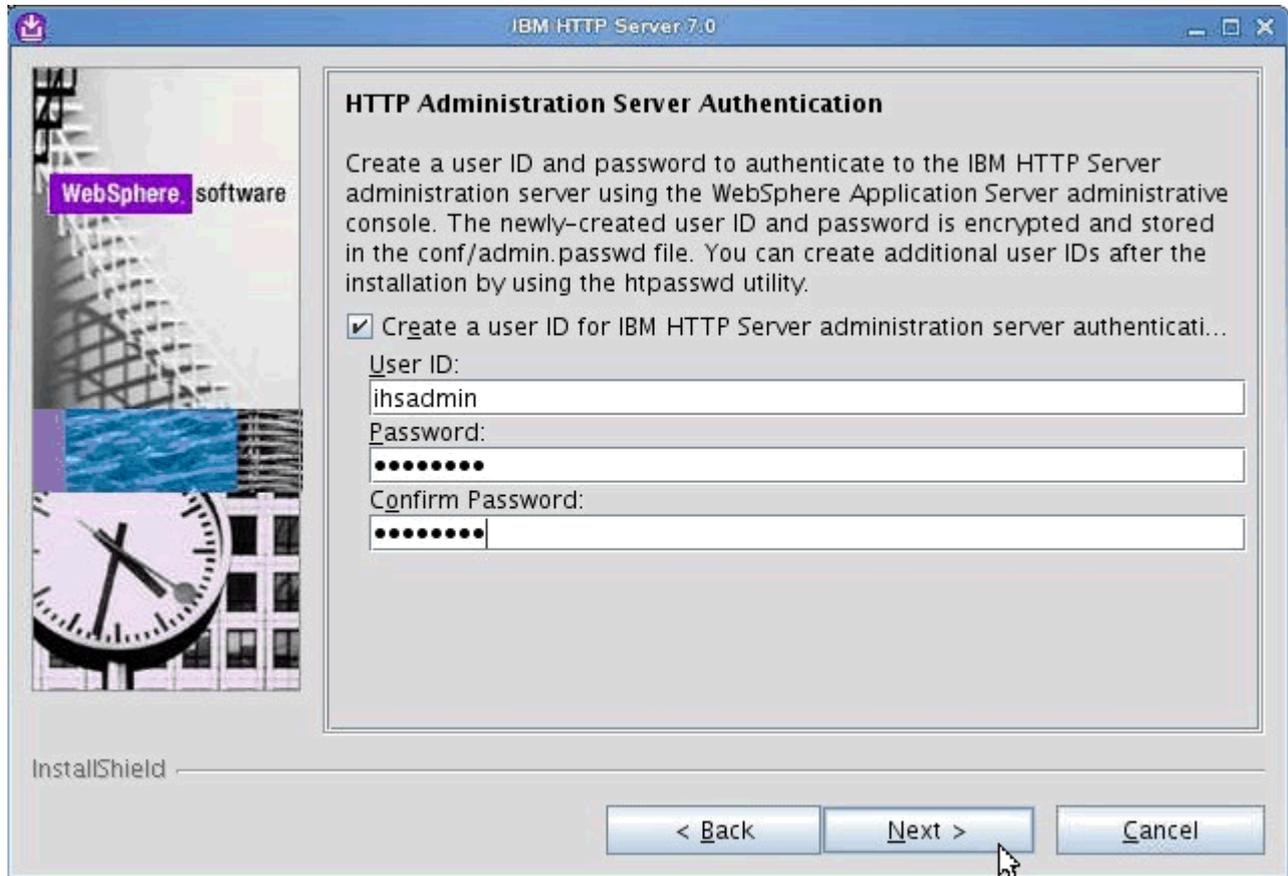


Figure 16. IBM HTTP Server 7.0 installation wizard: HTTP Administration server Authentication screen

8. Set up IBM HTTP Server administration server and click **Next**.

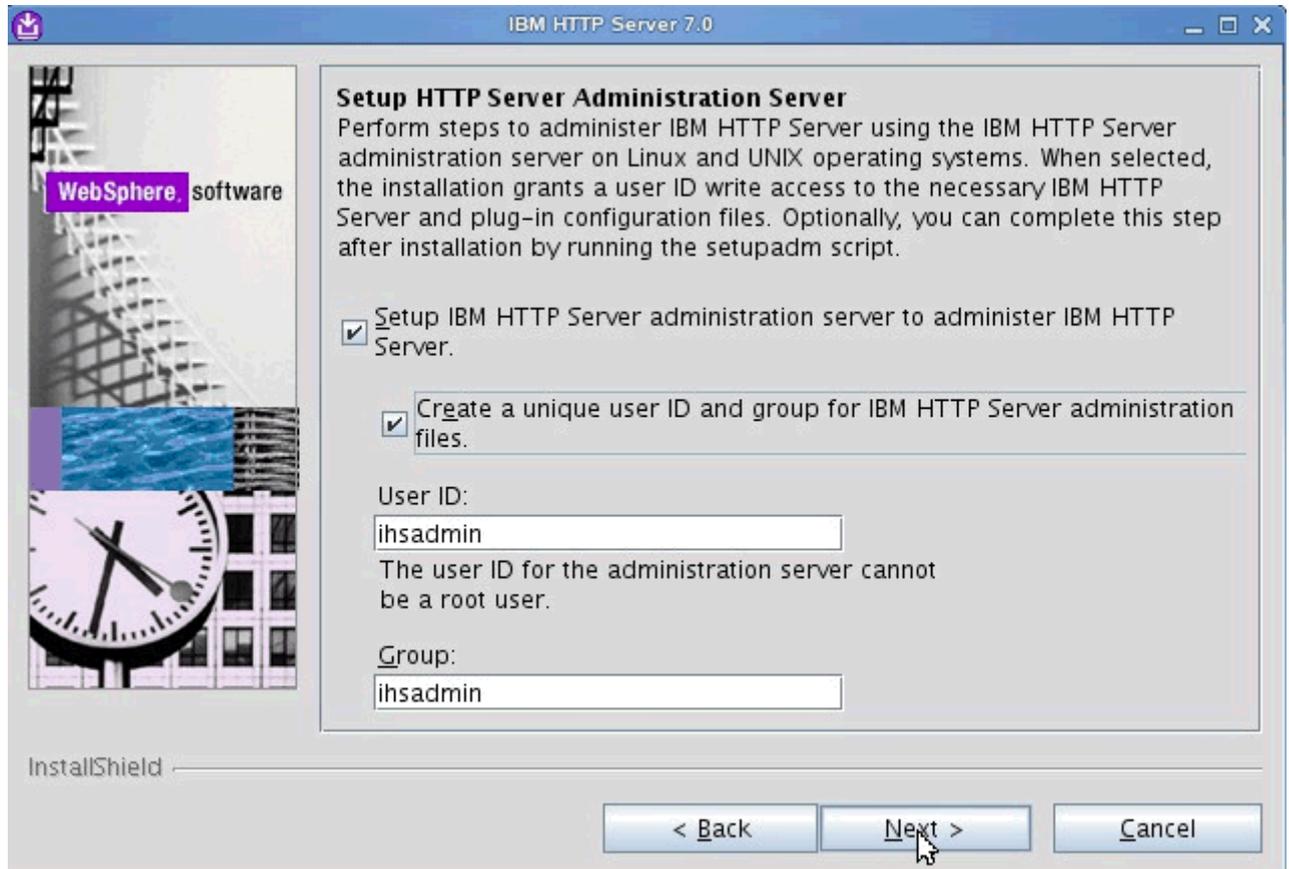


Figure 17. IBM HTTP Server 7.0 installation wizard: Setup HTTP Server Administration server screen

9. Install the IBM HTTP Server plug-in and click **Next**.

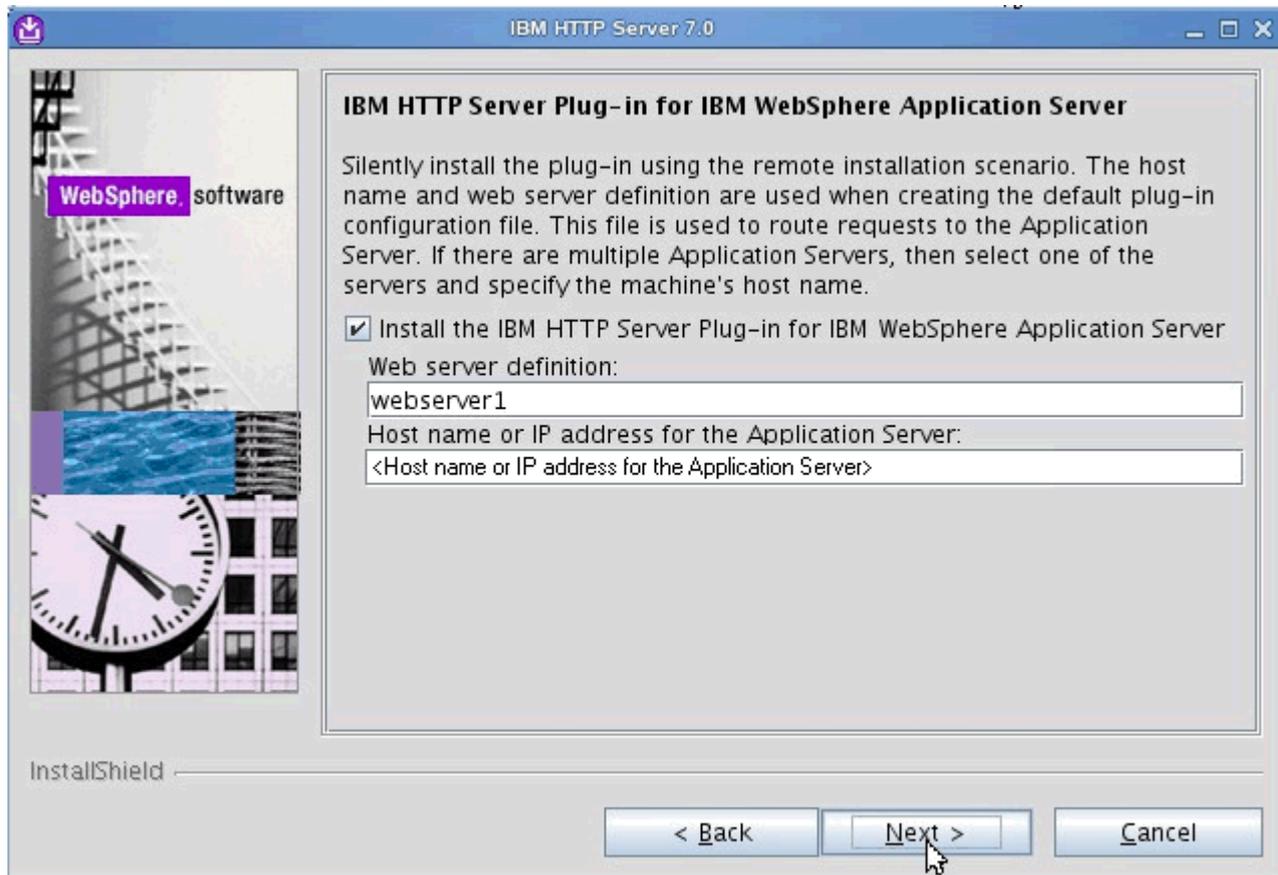


Figure 18. IBM HTTP Server 7.0 installation wizard: IBM HTTP Server Plug-in for IBM WebSphere Application Server screen

The installation begins.

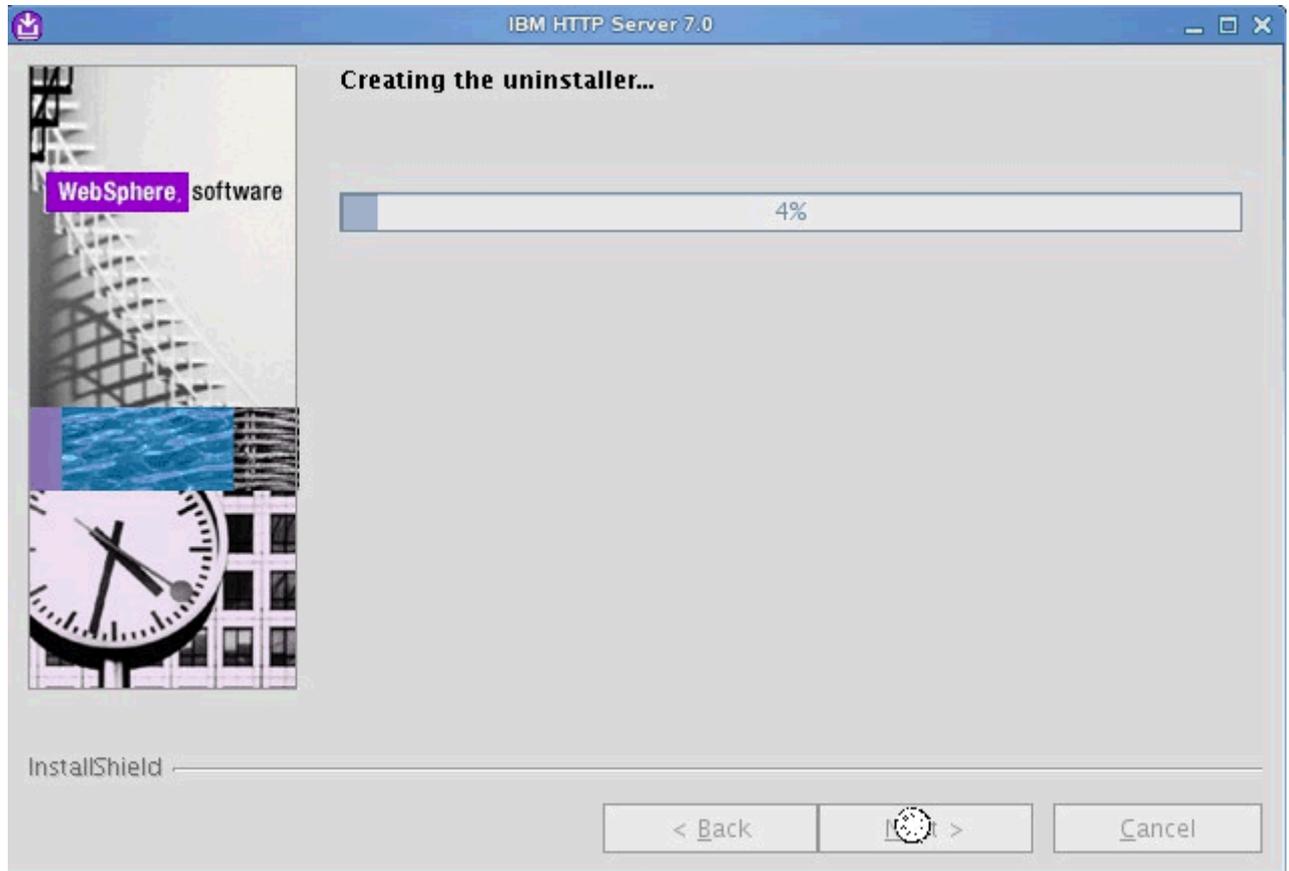


Figure 19. IBM HTTP Server 7.0 installation wizard: Installation in progress screen

10. When the product is successfully installed click **Finish**.

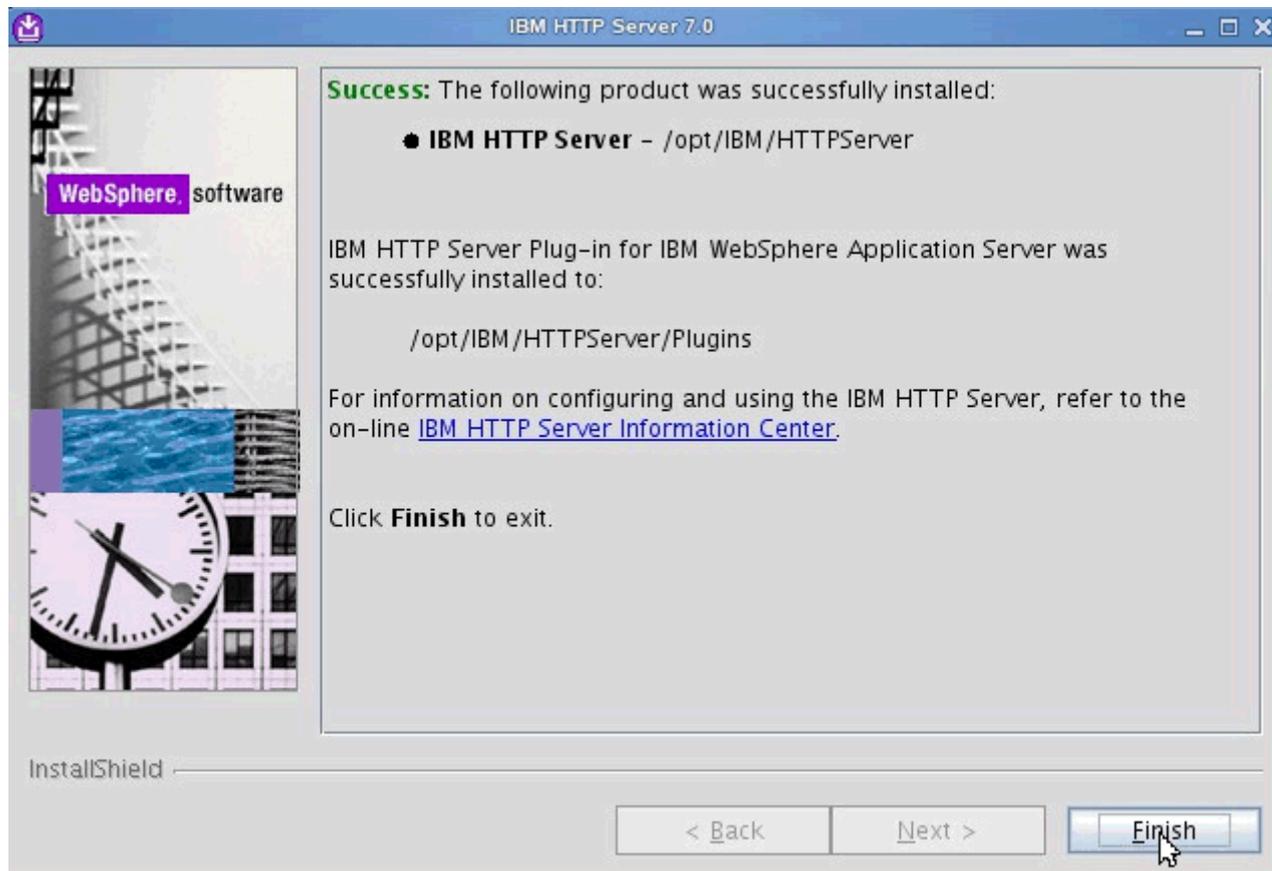


Figure 20. IBM HTTP Server 7.0 installation wizard: Installation completion screen

Install Fixpack for IHS

Install Update Installer

1. Run the command in the following figure to open the Installation Wizard for the Update Installer.

```
dubxpcvm540:/software/was_fp/UpdateInstaller # ./install
```

Figure 21. Command to open the Installation Wizard for the Update Installer

2. On the welcome screen of the Installation Wizard for the Update Installer, click **Next**.

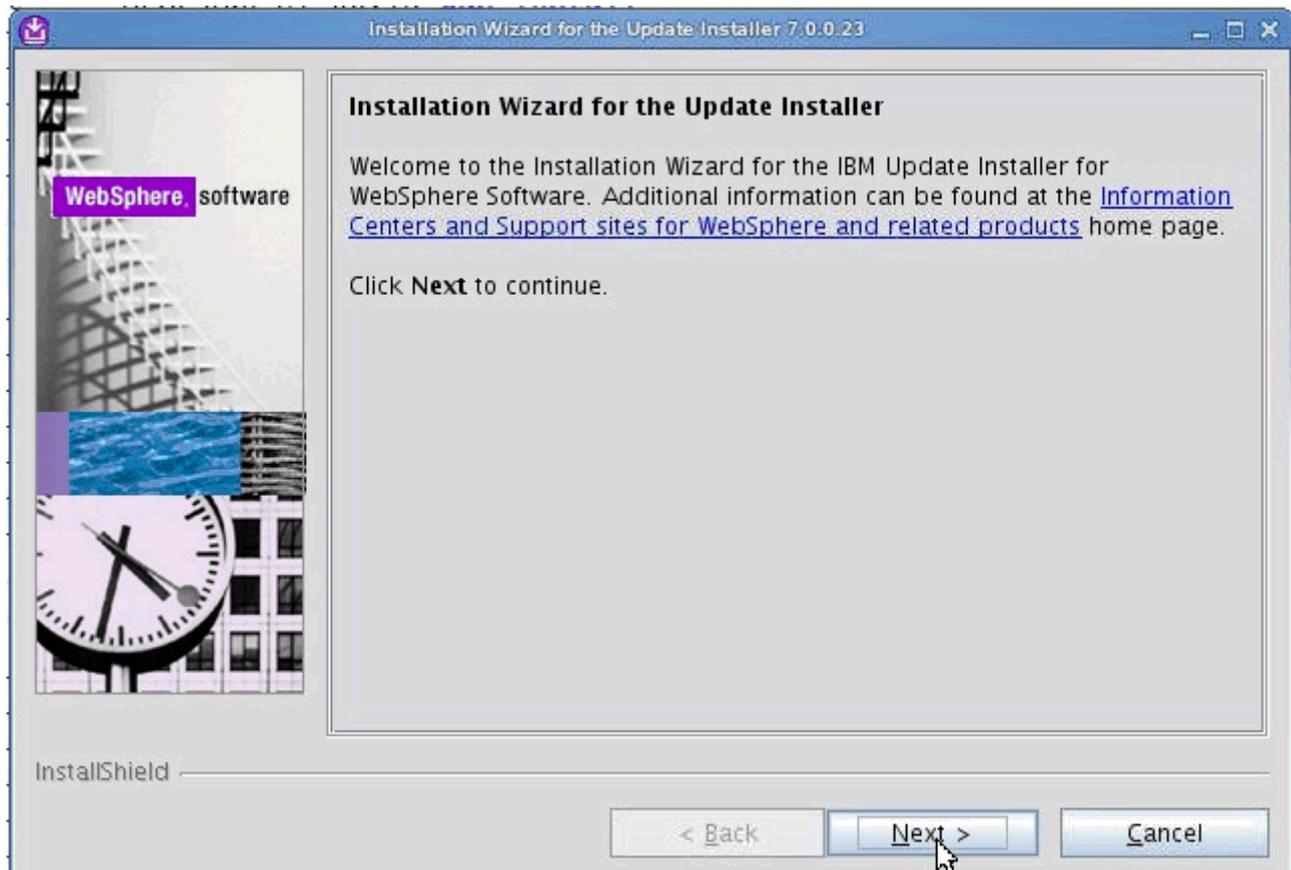


Figure 22. Installation Wizard for the Update Installer: Welcome screen

3. Accept both the IBM and non-IBM terms and click **Next**.



Figure 23. Installation Wizard for the Update Installer: Software License Agreement screen

4. The prerequisites are checked. Click **Next** if passed.

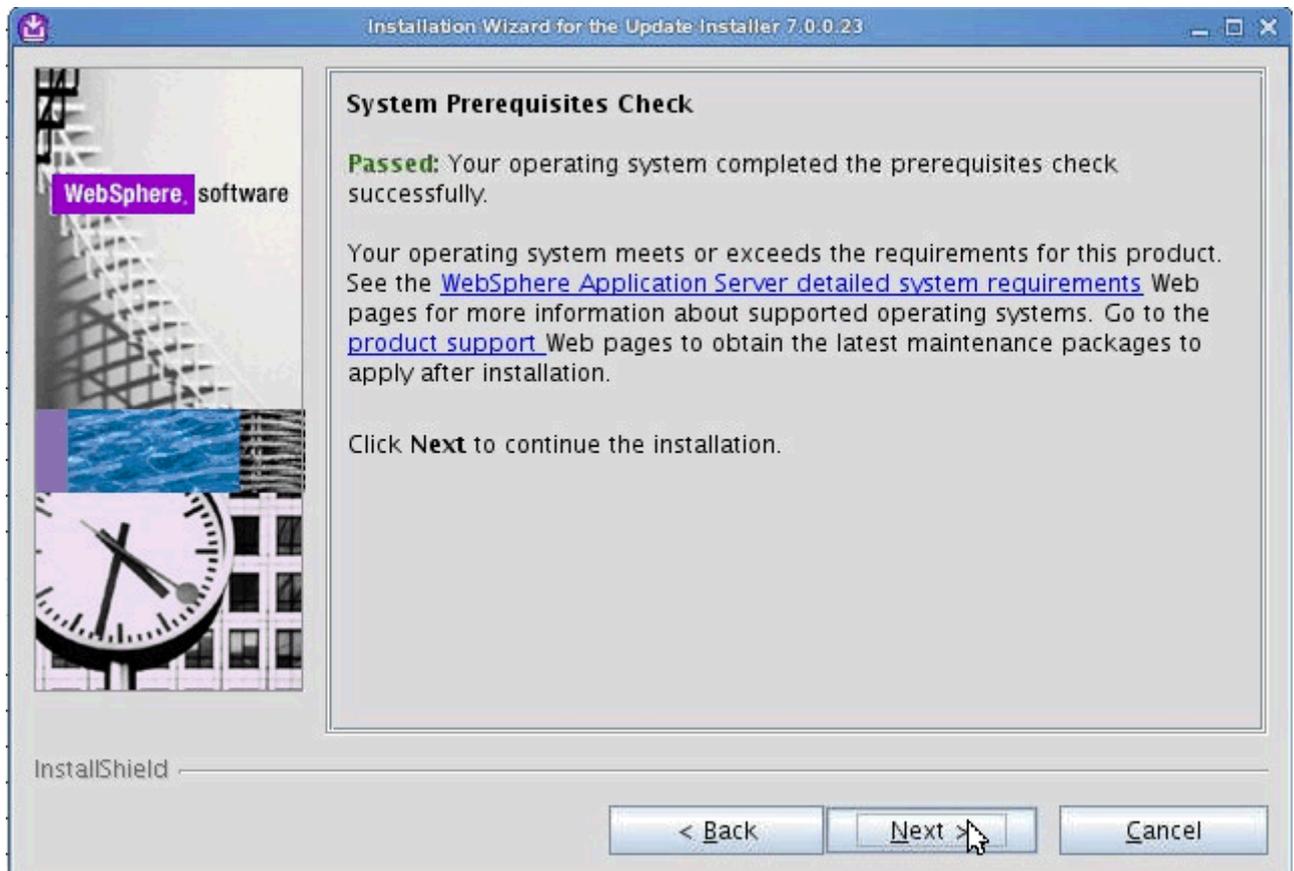


Figure 24. Installation Wizard for the Update Installer: System Prerequisites Check screen

5. Select the directory where the product will be installed and click **Next**.

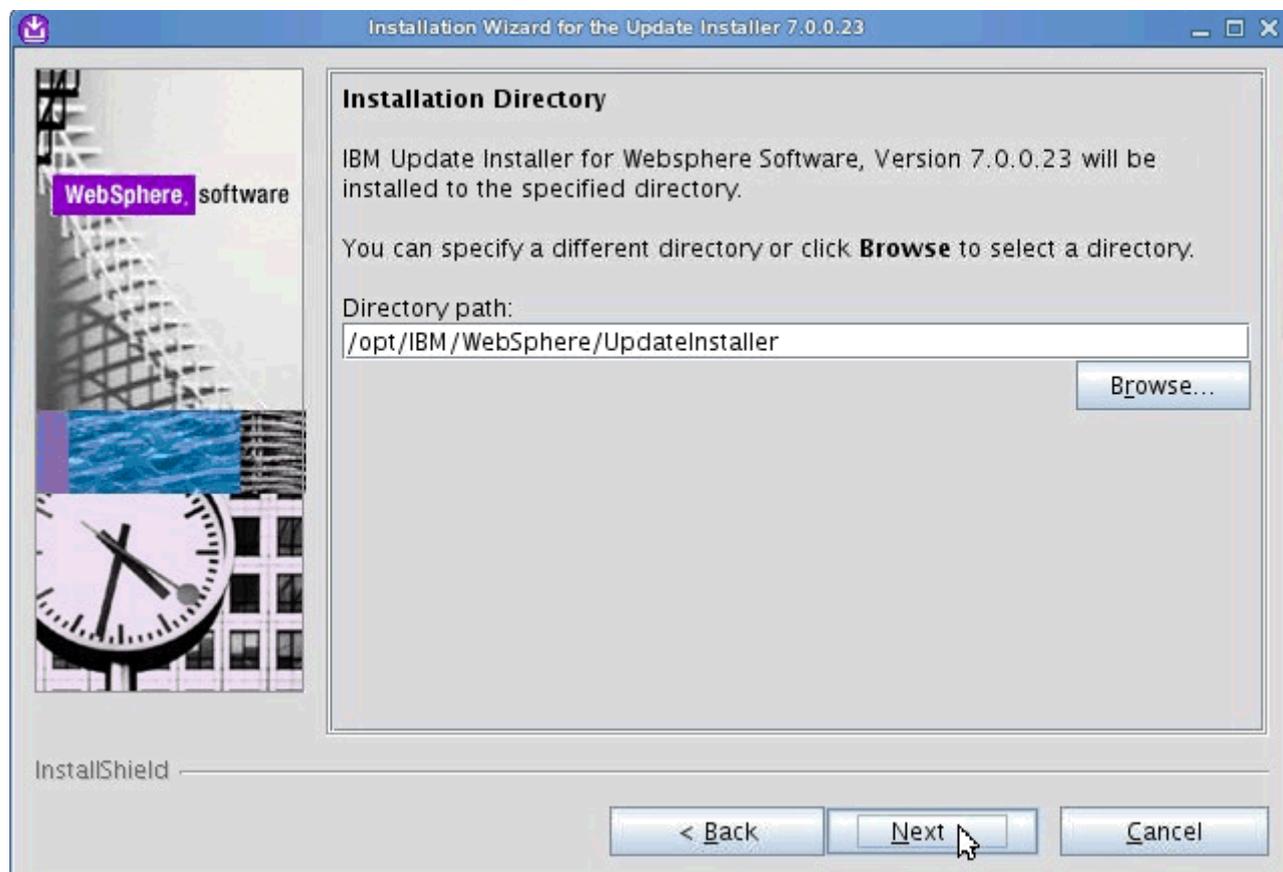


Figure 25. Installation Wizard for the Update Installer: Installation Directory screen

6. Review the installation summary and click **Next**.

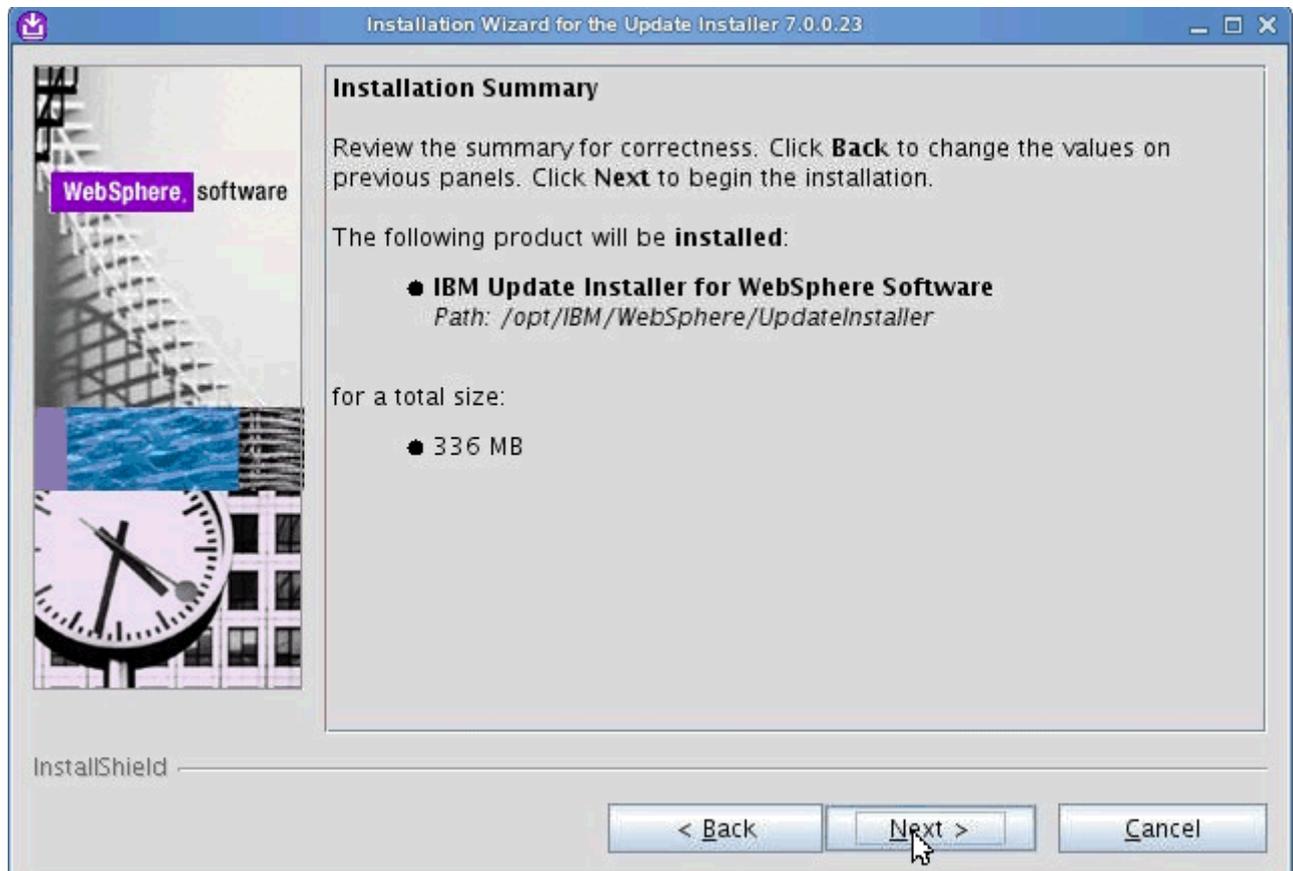


Figure 26. Installation Wizard for the Update Installer: Installation Summary screen

The installation begins.

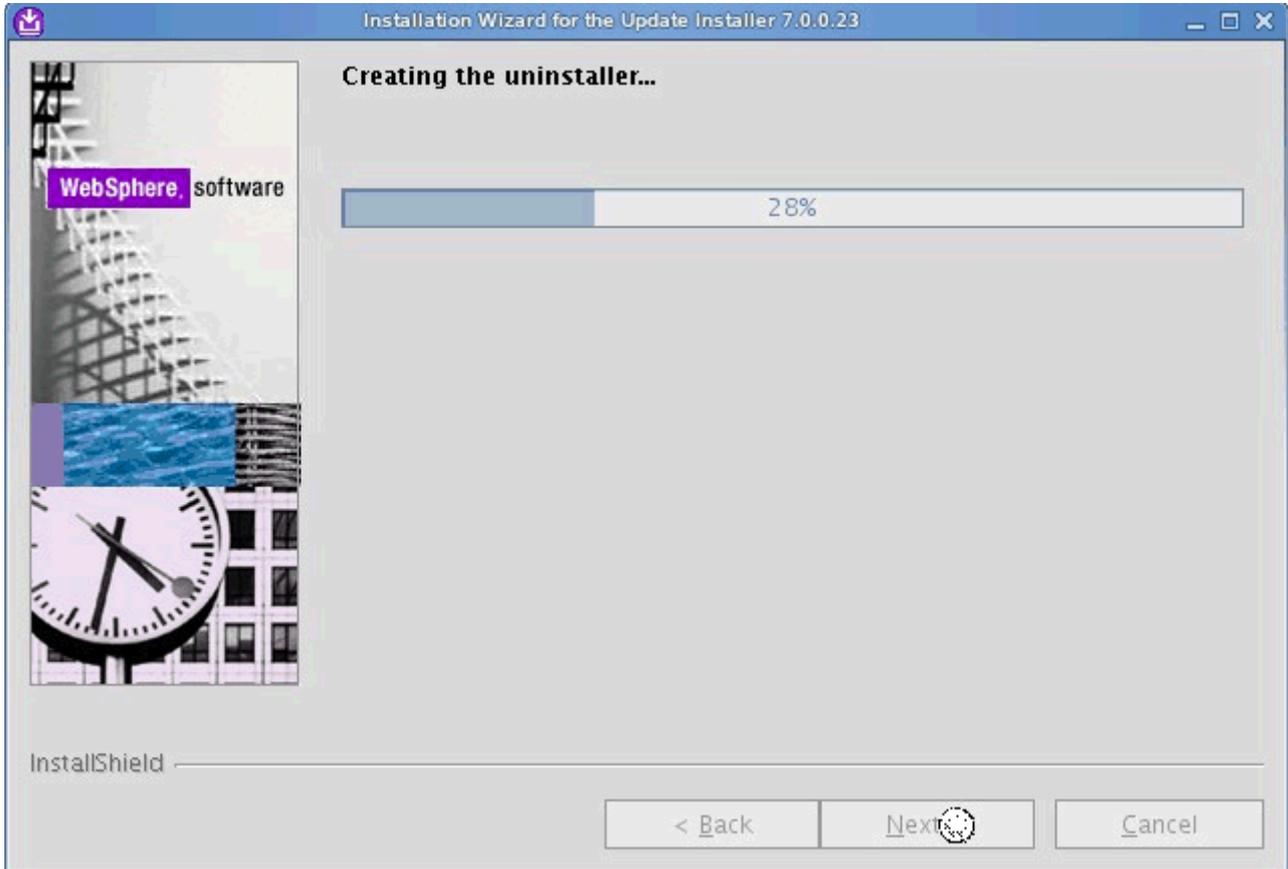


Figure 27. Installation Wizard for the Update Installer: Installation in progress screen

7. When the product is successfully installed click **Finish**.

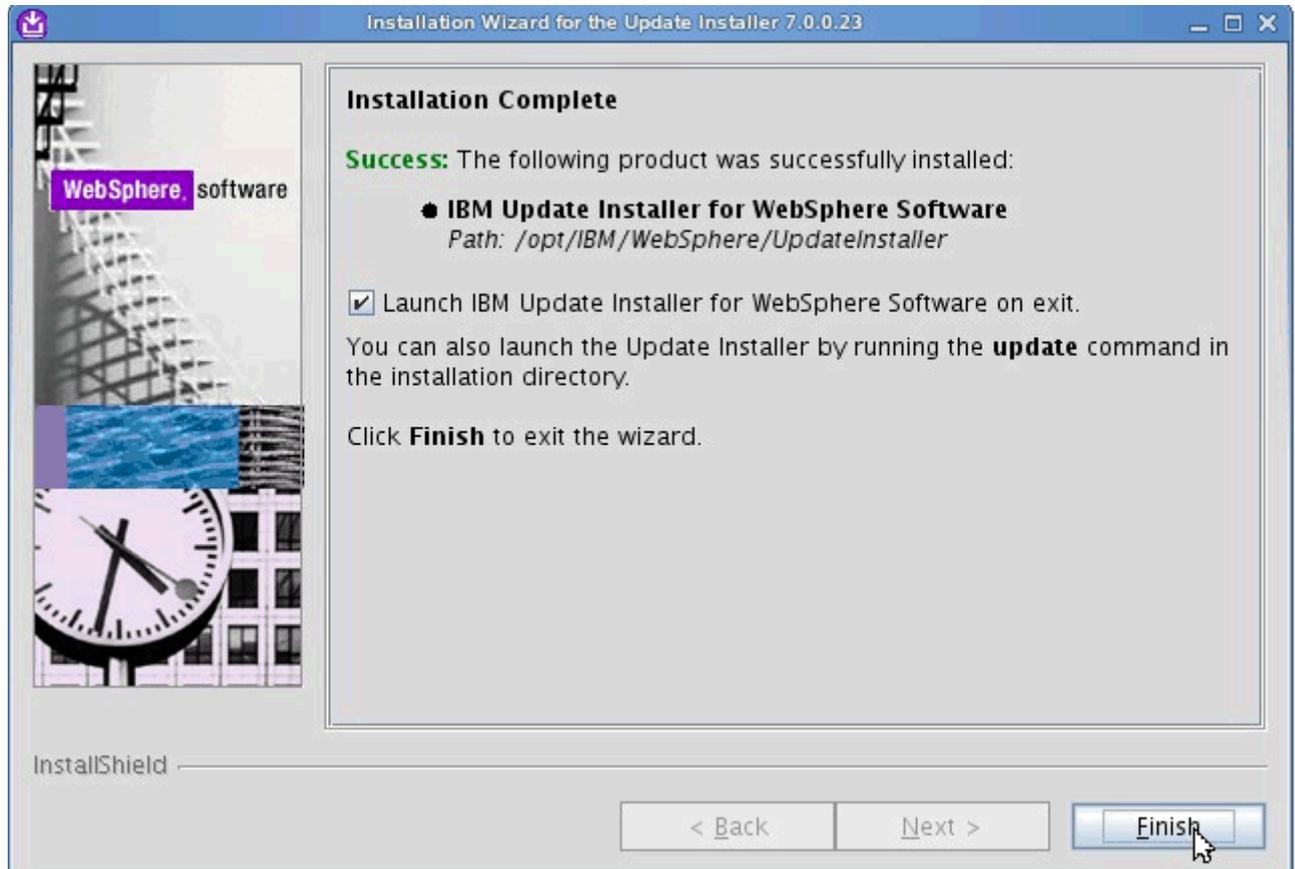


Figure 28. Installation Wizard for the Update Installer: Installation Complete screen

You must also install the IBM Update Installer for WebSphere Software. To do so, follow these steps.

1. On the welcome page of the IBM Update Installer for WebSphere Software wizard, click **Next**.

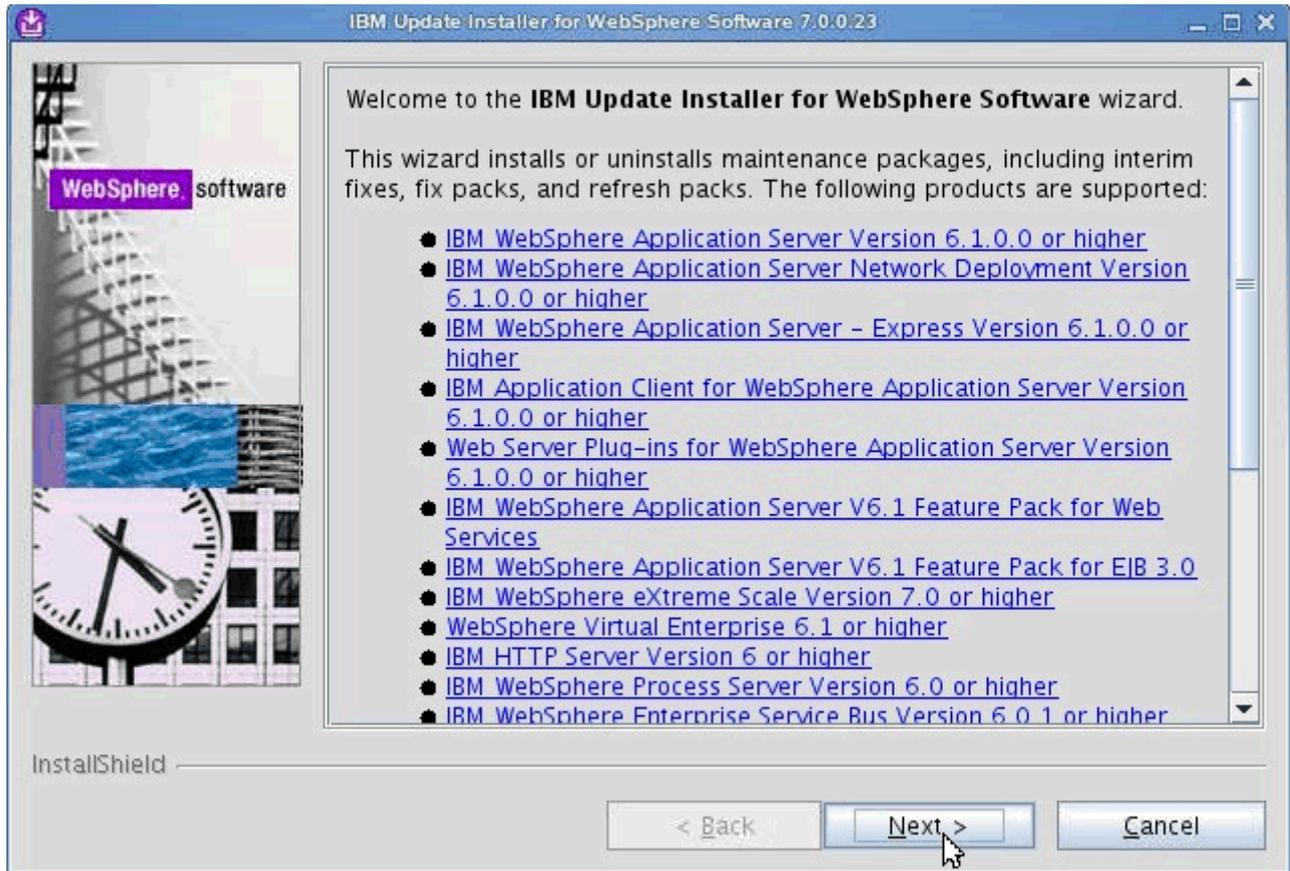


Figure 29. IBM Update Installer for WebSphere Software wizard: Welcome screen

2. Enter the installation location of the product that you want to update and click **Next**.

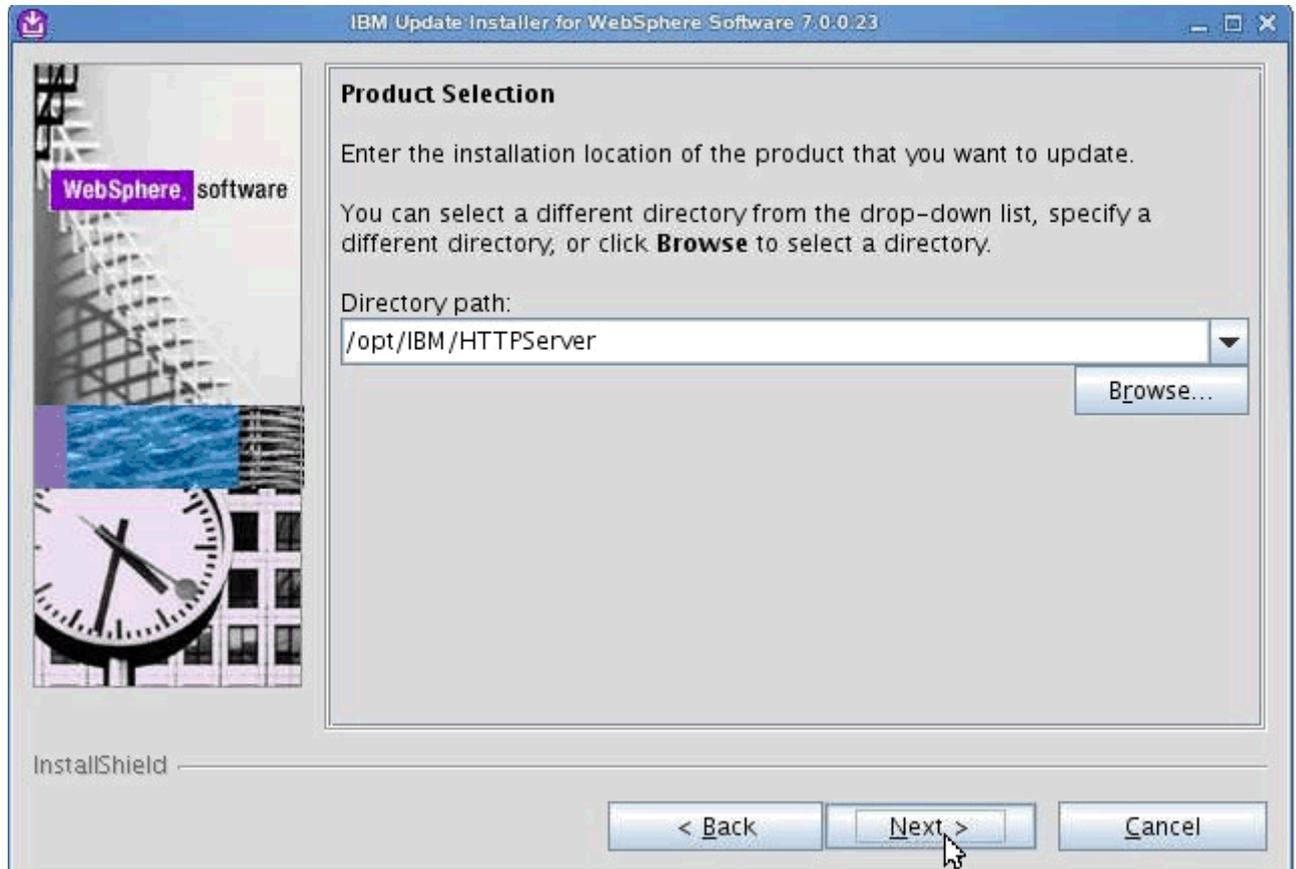


Figure 30. IBM Update Installer for WebSphere Software wizard: Product Selection screen

3. Select the option "Install maintenance package" and click **Next**.

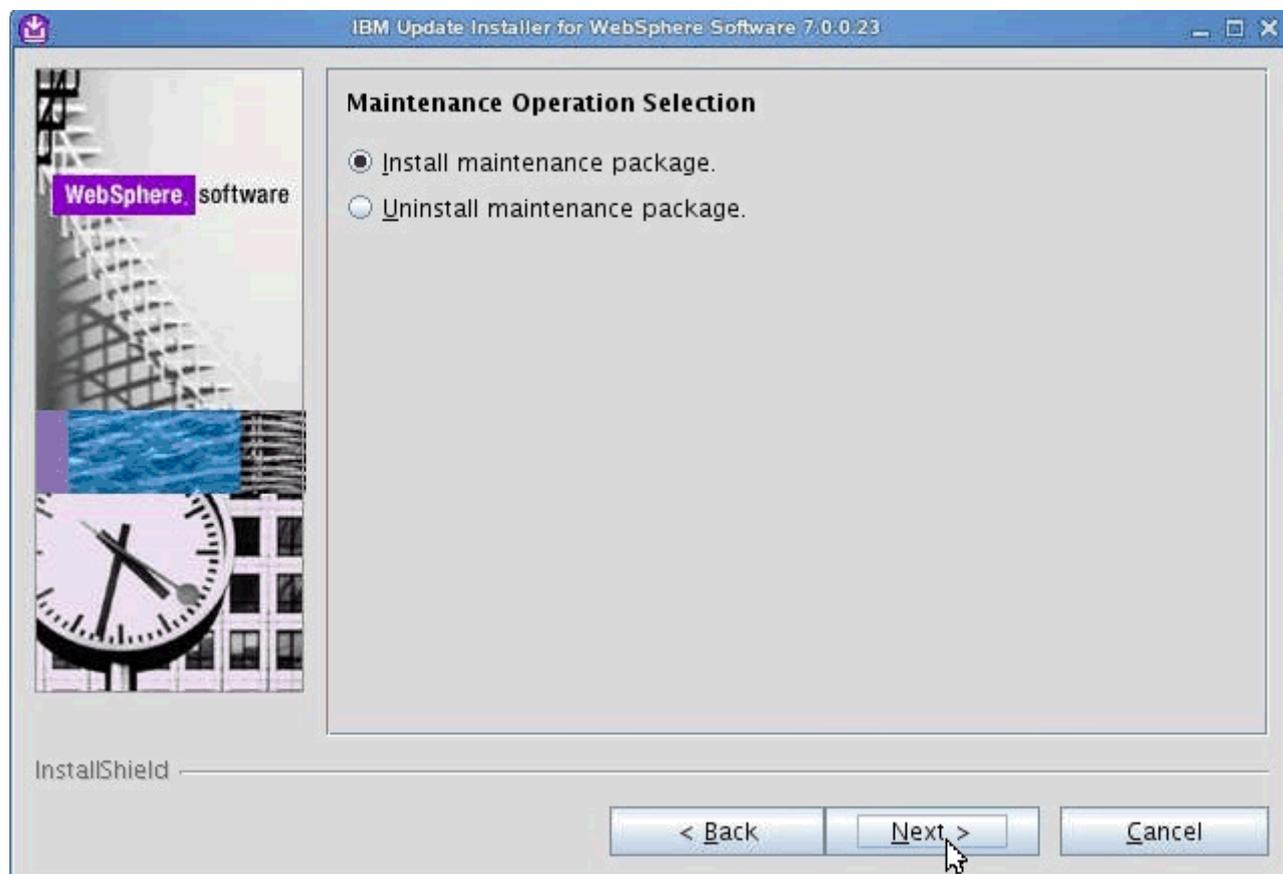


Figure 31. IBM Update Installer for WebSphere Software wizard: Maintenance Operation Selection screen

4. Select the directory to install the maintenance package and click **Next**.

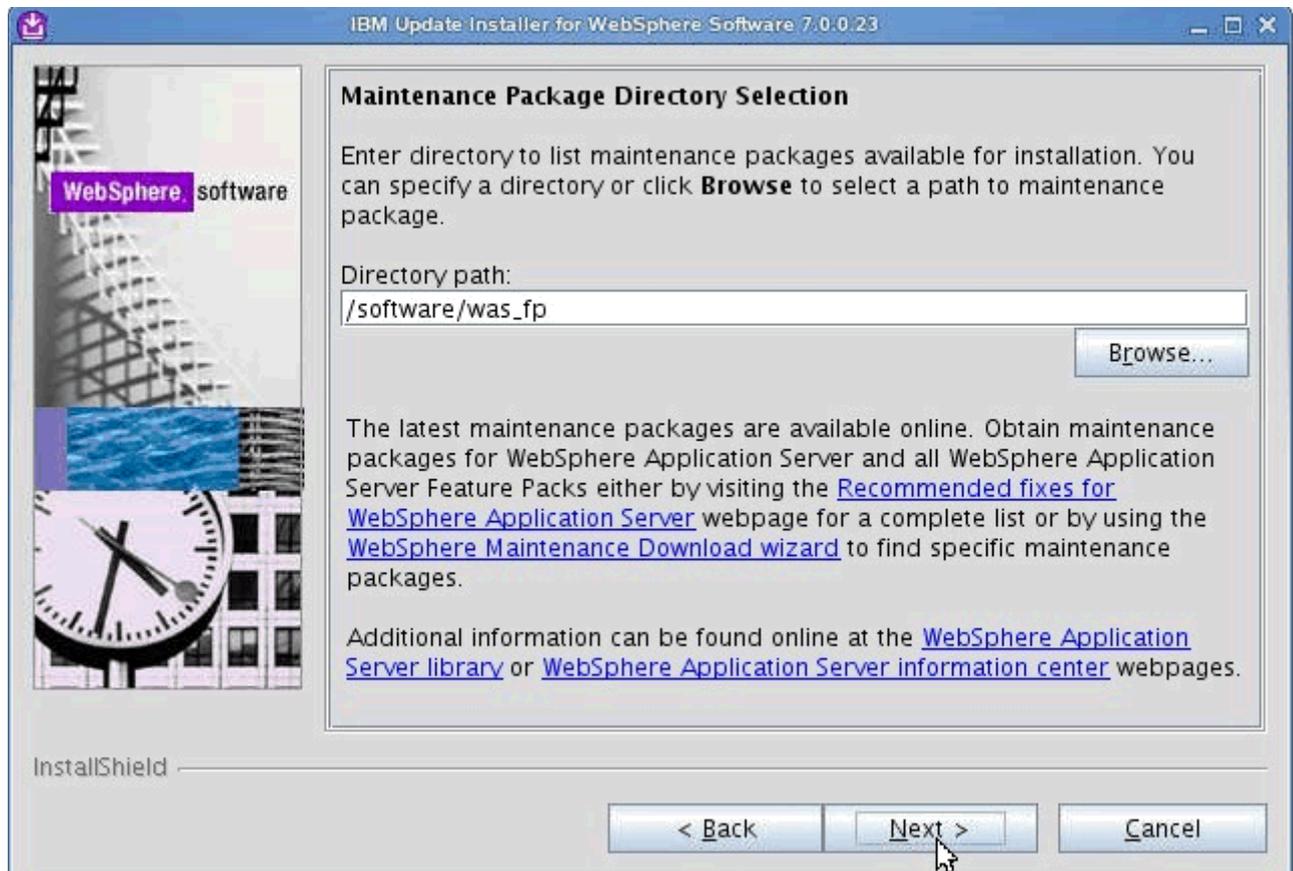


Figure 32. IBM Update Installer for WebSphere Software wizard: Maintenance Package Directory screen

5. Select the maintenance packages that you want to install and click **Next**.

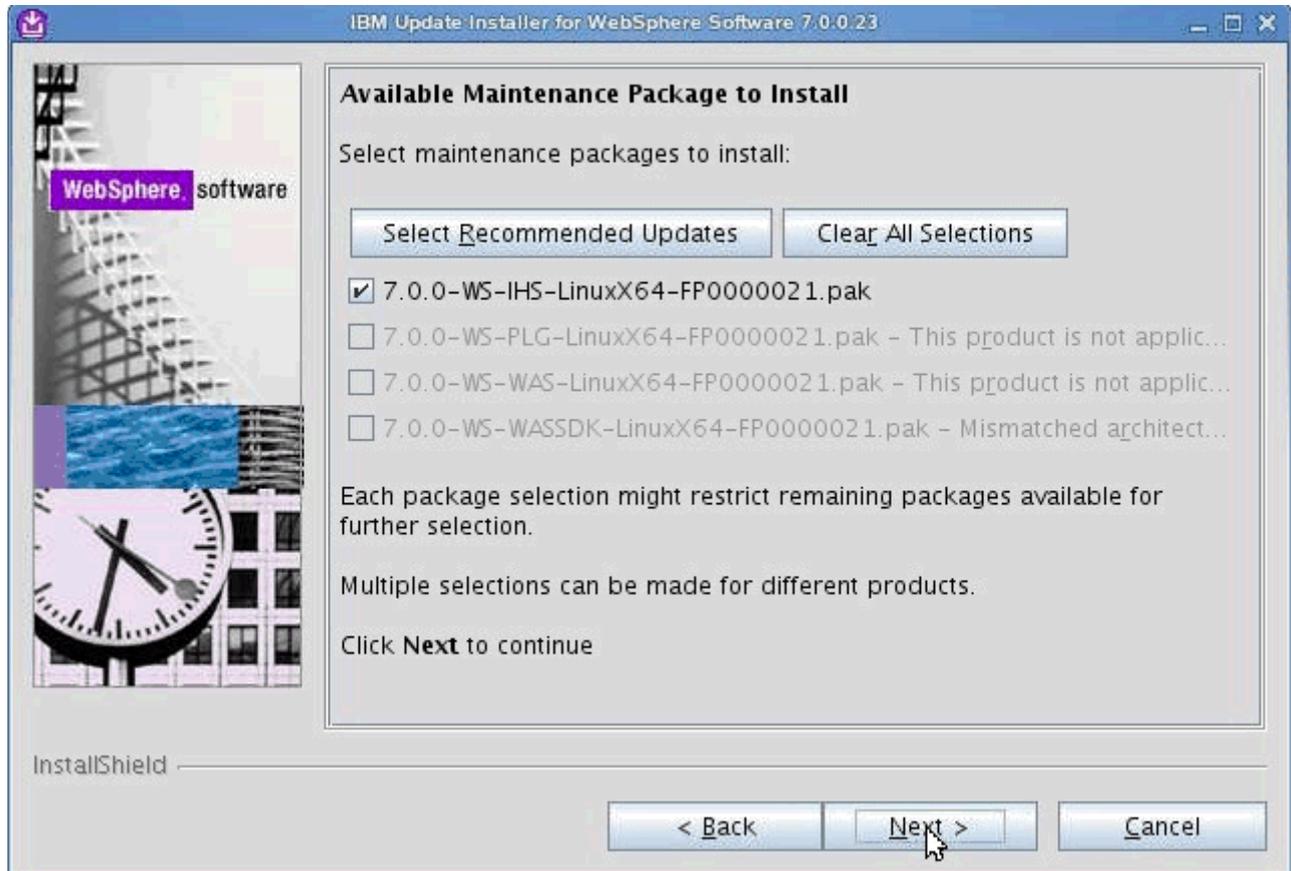


Figure 33. IBM Update Installer for WebSphere Software wizard: Available Maintenance Package to Install screen

6. Review the installation summary and click **Next**.

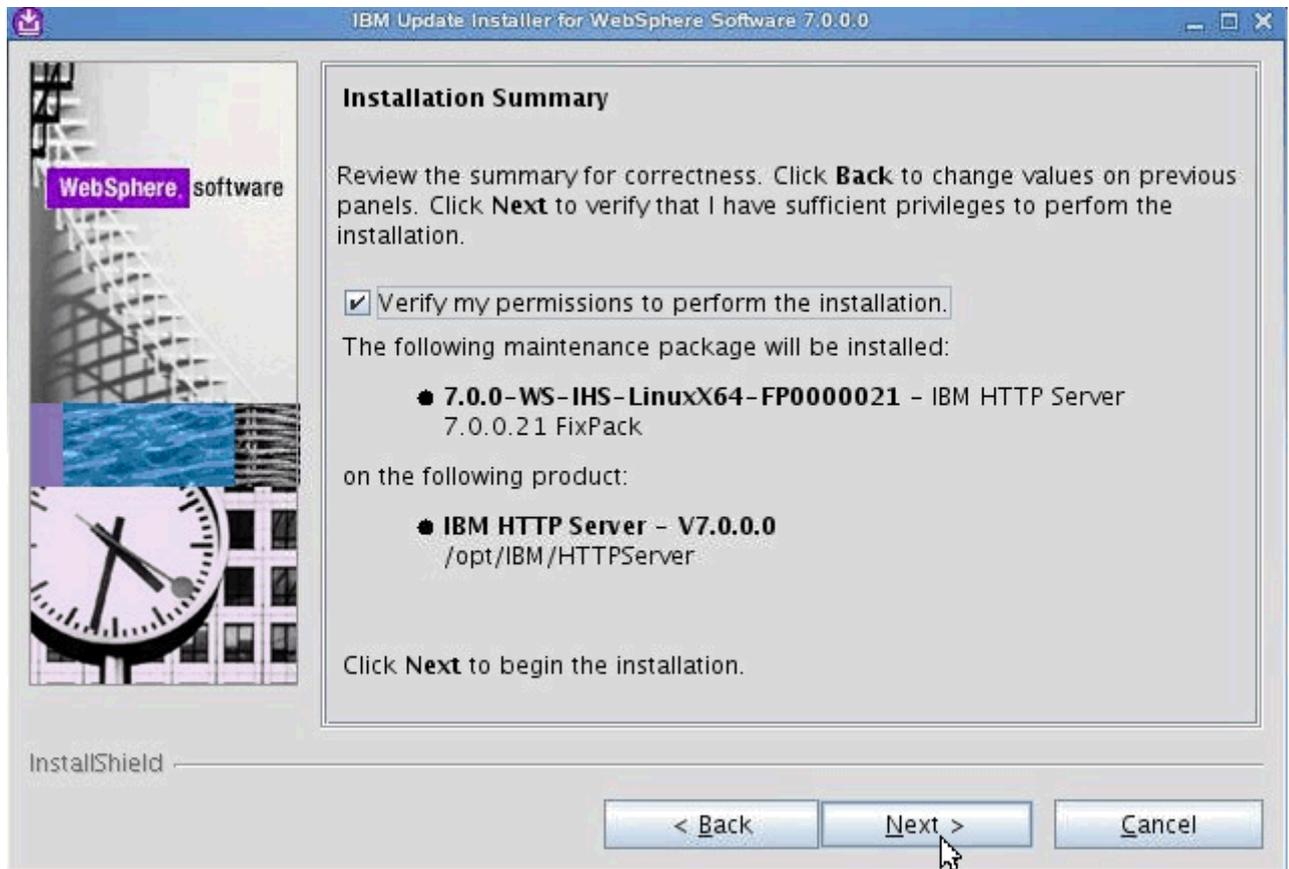


Figure 34. IBM Update Installer for WebSphere Software wizard: Installation Summary screen (1 of 2)

7. On the Installation Summary screen, you are informed that you have enough permissions for the installation. Click **Next**.

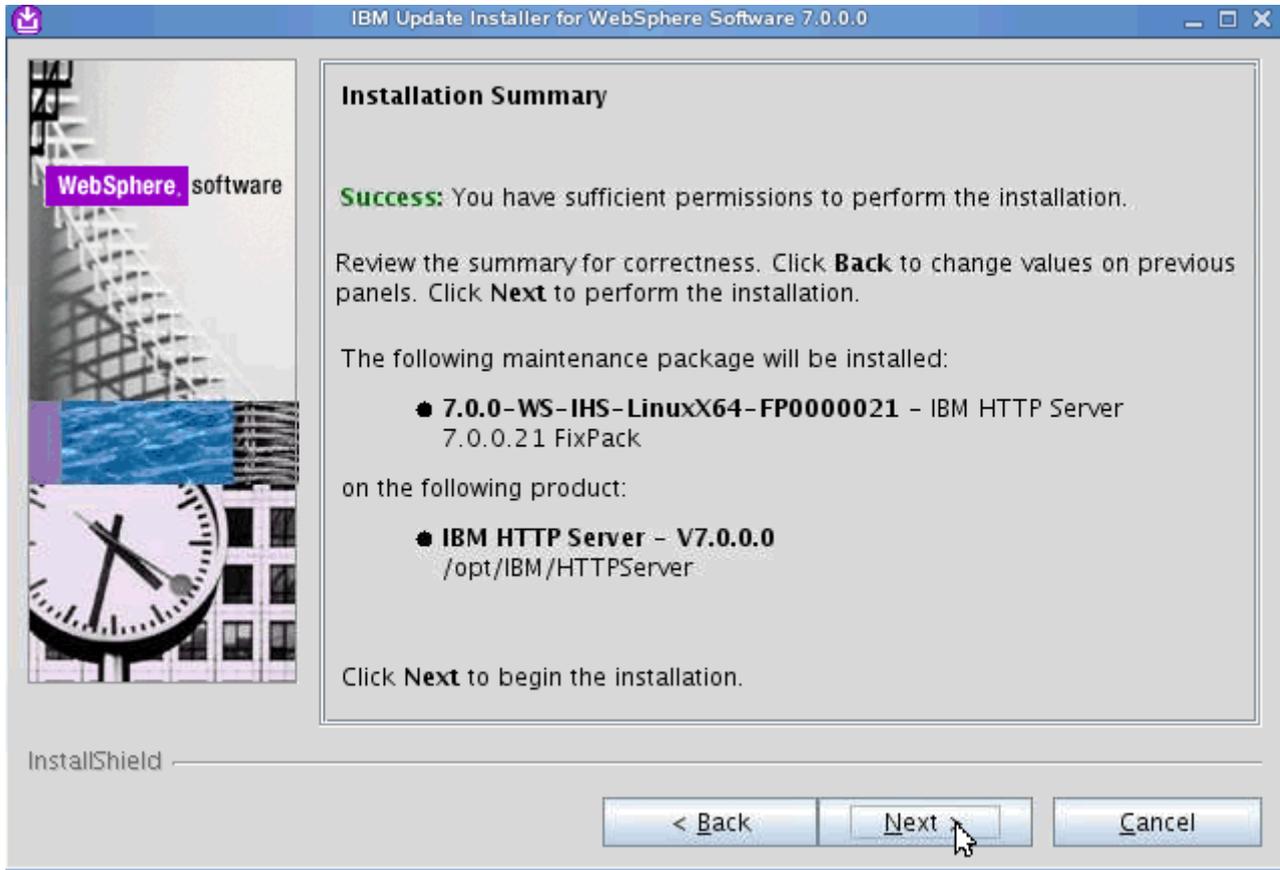


Figure 35. IBM Update Installer for WebSphere Software wizard: Installation Summary screen (2 of 2)

The installation components initialize.

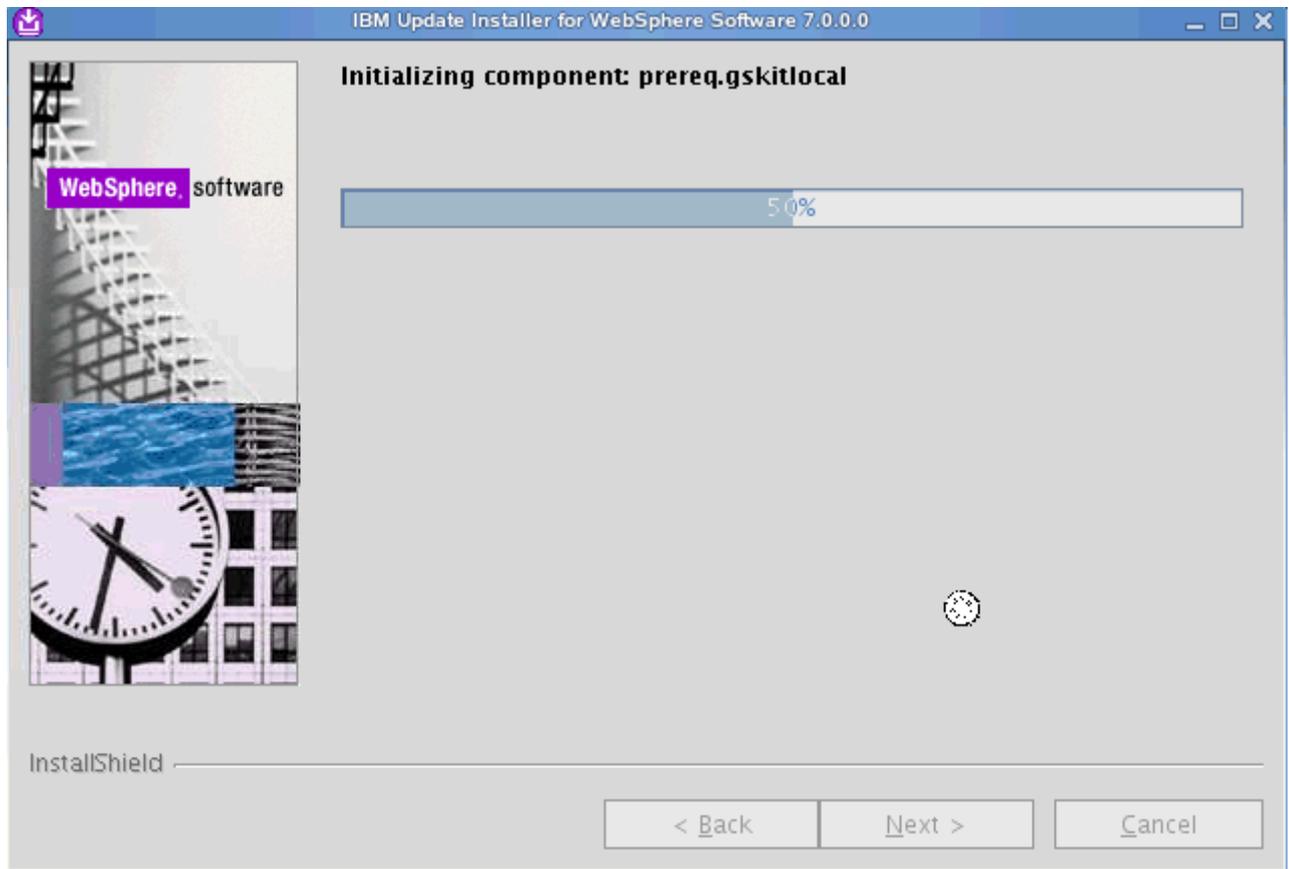


Figure 36. IBM Update Installer for WebSphere Software wizard: Installation in progress screen

8. The installation completes. Click **Relaunch** to add or remove extra maintenance packages.

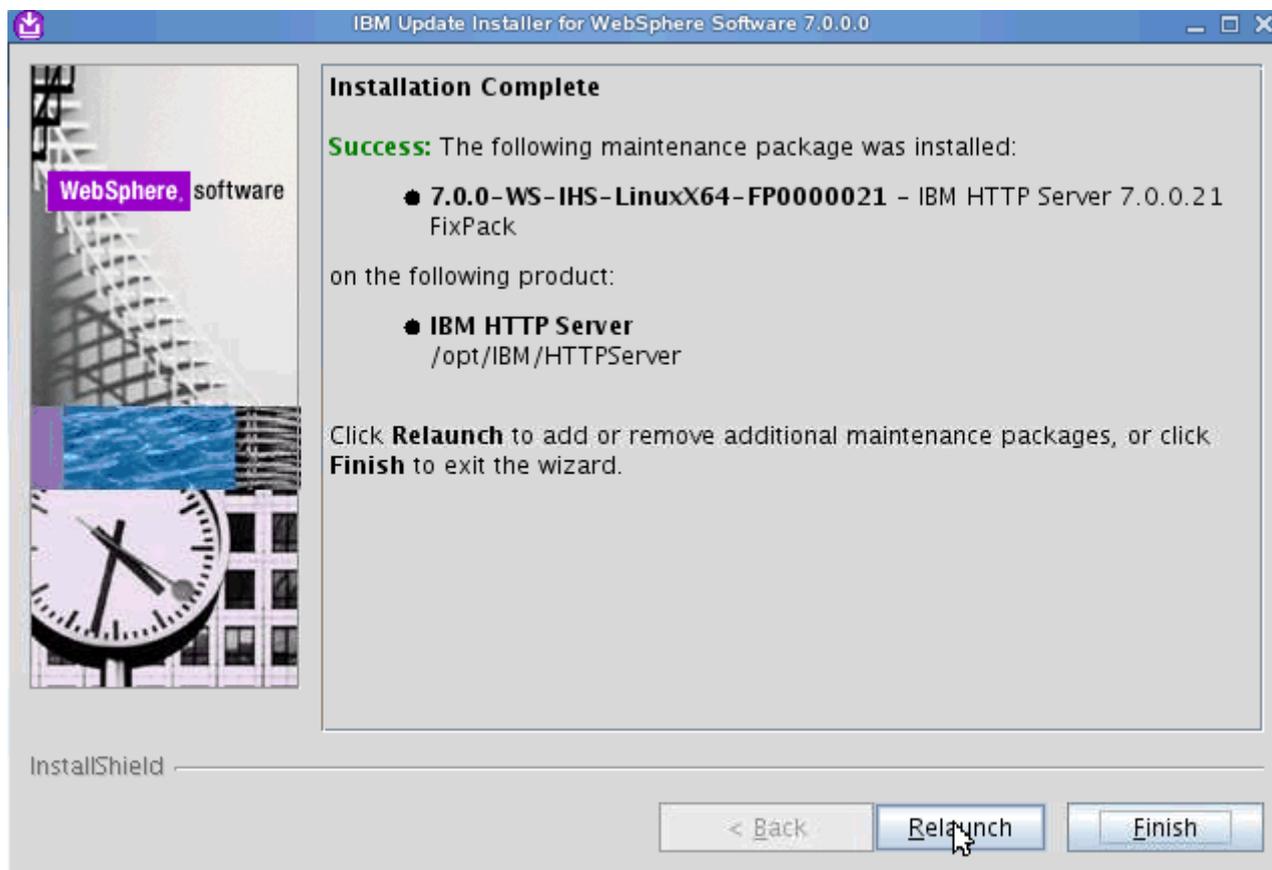


Figure 37. IBM Update Installer for WebSphere Software wizard: Installation Complete screen

9. Apply 70021 fix pack. On the Product Selection screen, click **Next**.

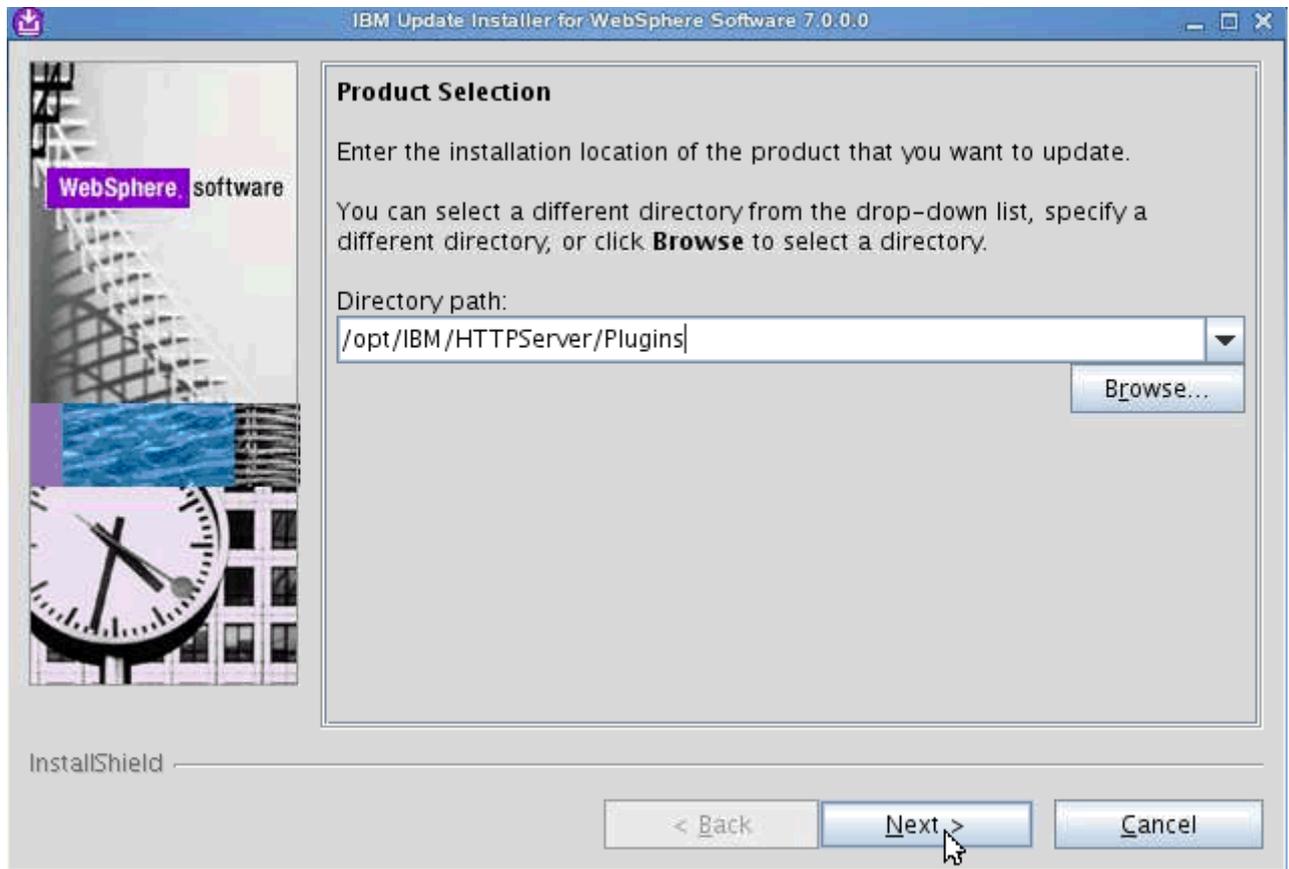


Figure 38. IBM Update Installer for WebSphere Software wizard: Product Selection screen

10. Select Install maintenance package and click **Next**.

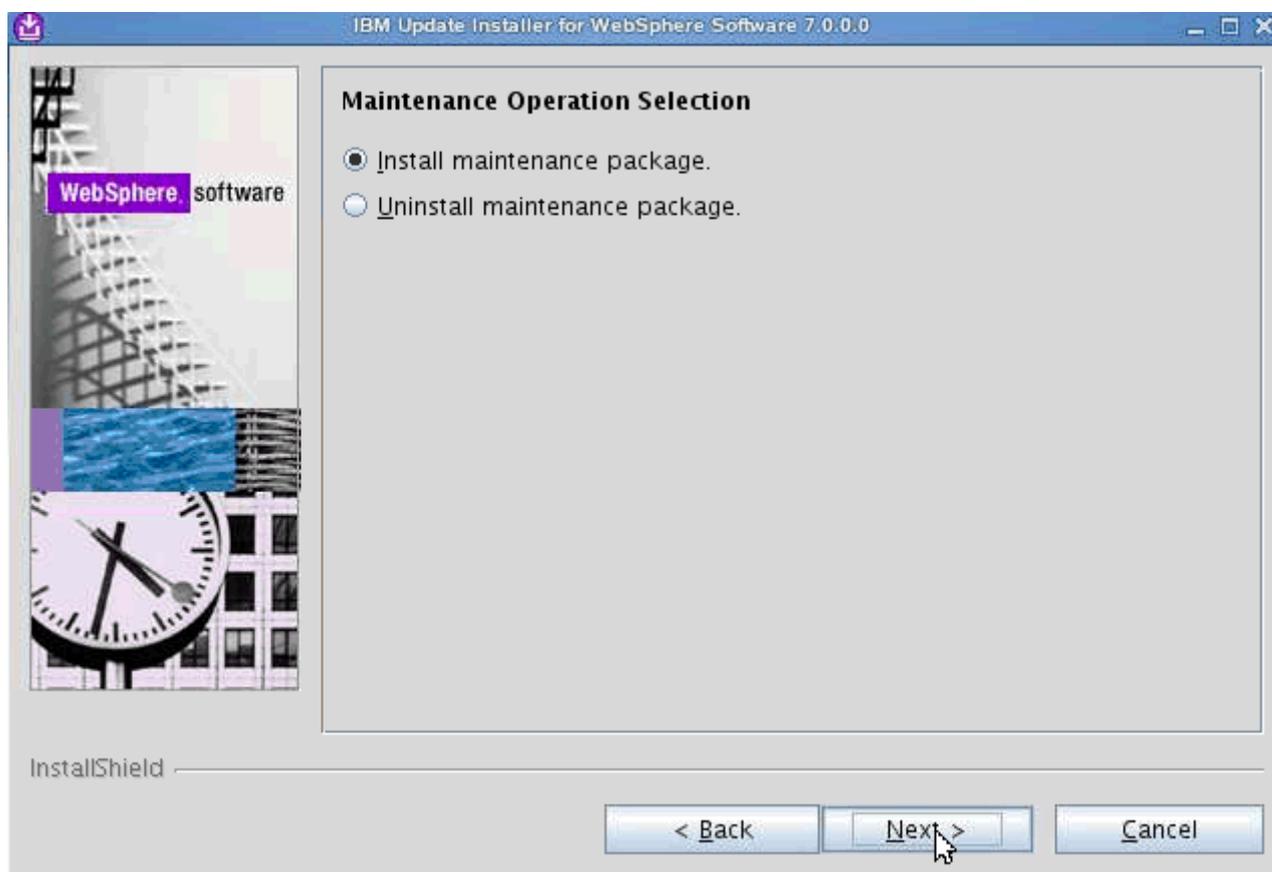


Figure 39. IBM Update Installer for WebSphere Software wizard: Maintenance Operation Selection screen

11. Select the directory to install the maintenance package and click **Next**.

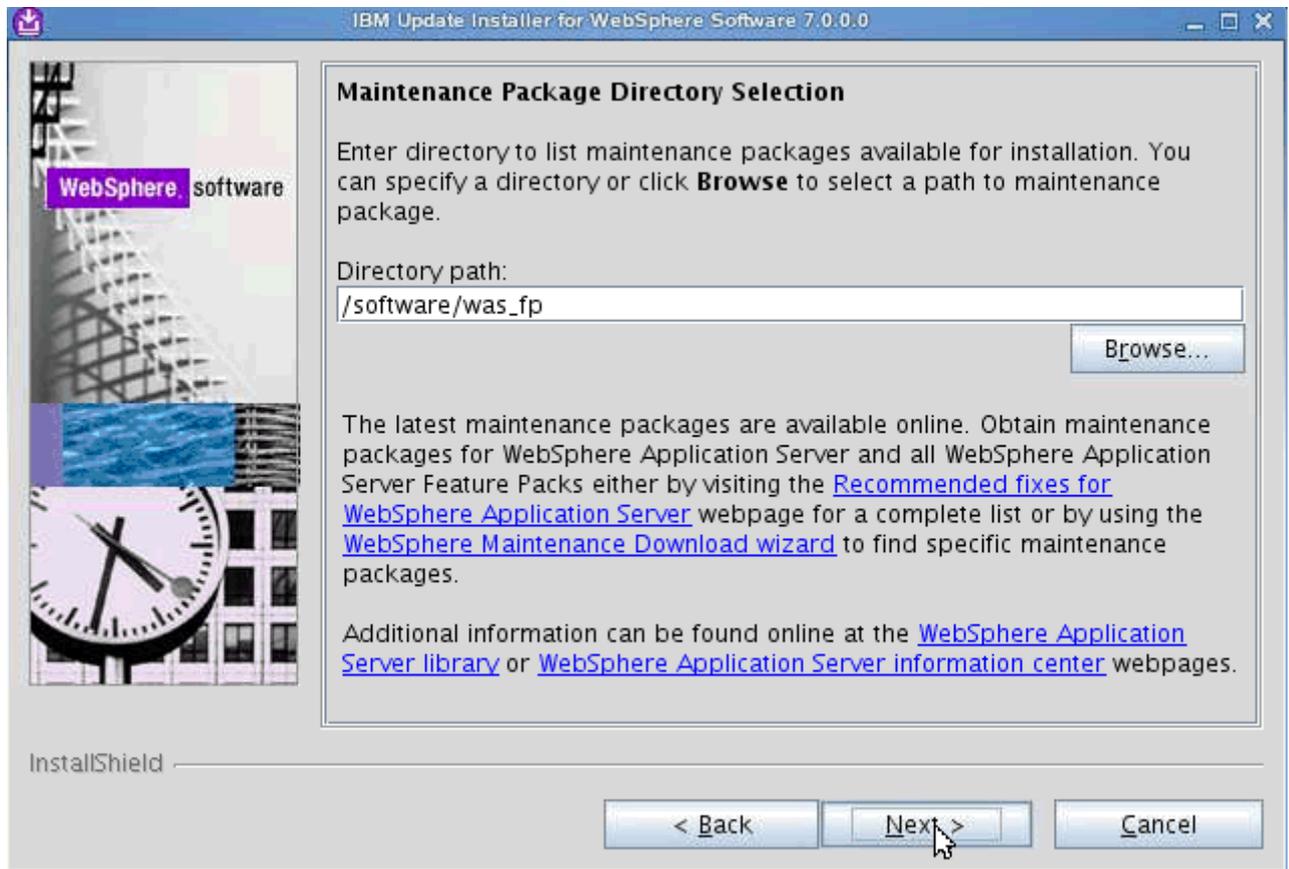


Figure 40. IBM Update Installer for WebSphere Software wizard: Maintenance Package Directory screen

12. Select the maintenance packages that you want to install and click **Next**.

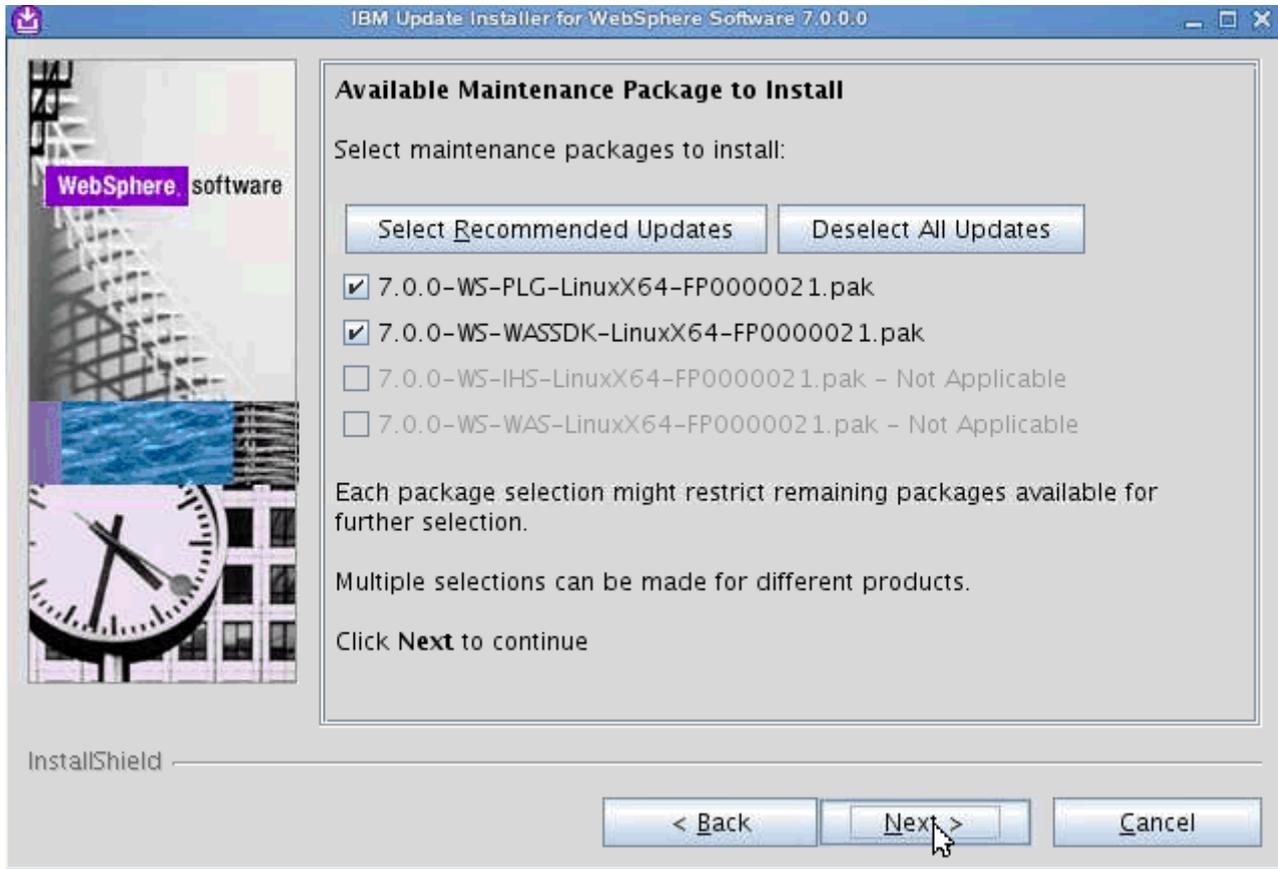


Figure 41. IBM Update Installer for WebSphere Software wizard: Available Maintenance Package to Install screen

13. Review the installation summary and click **Next**.

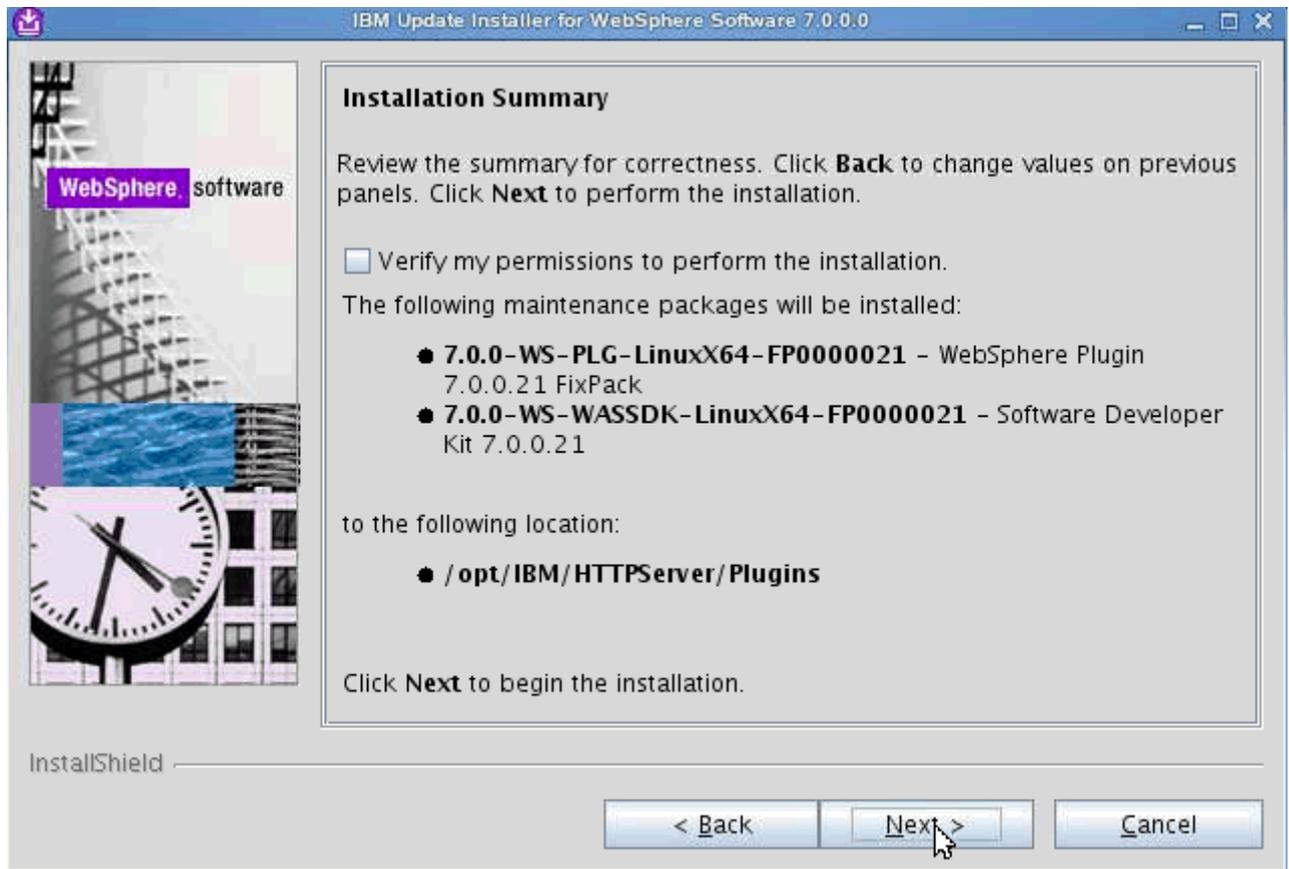


Figure 42. IBM Update Installer for WebSphere Software wizard: Installation Summary screen

The installation begins.

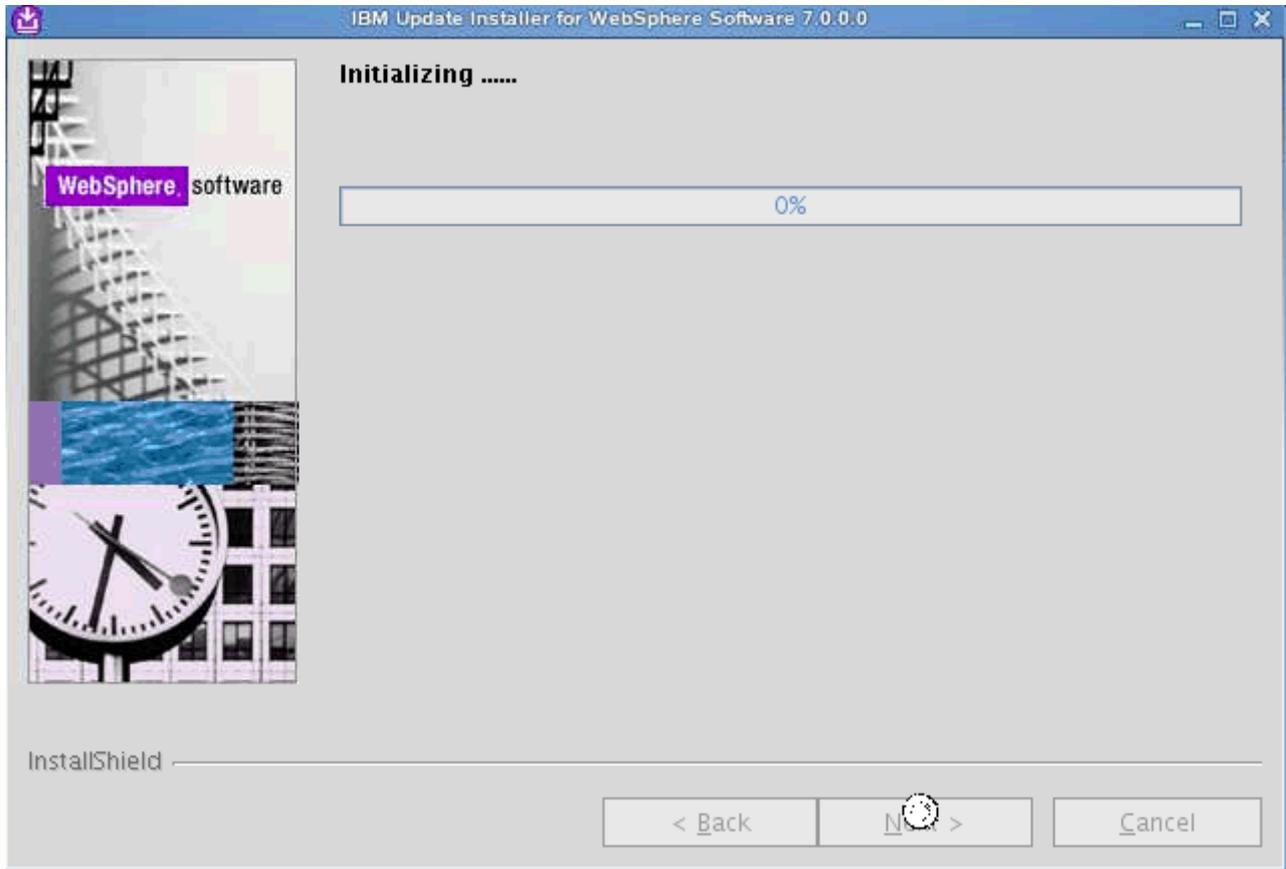


Figure 43. IBM Update Installer for WebSphere Software wizard: Installation in progress screen

14. The installation completes. Click **Finish**.

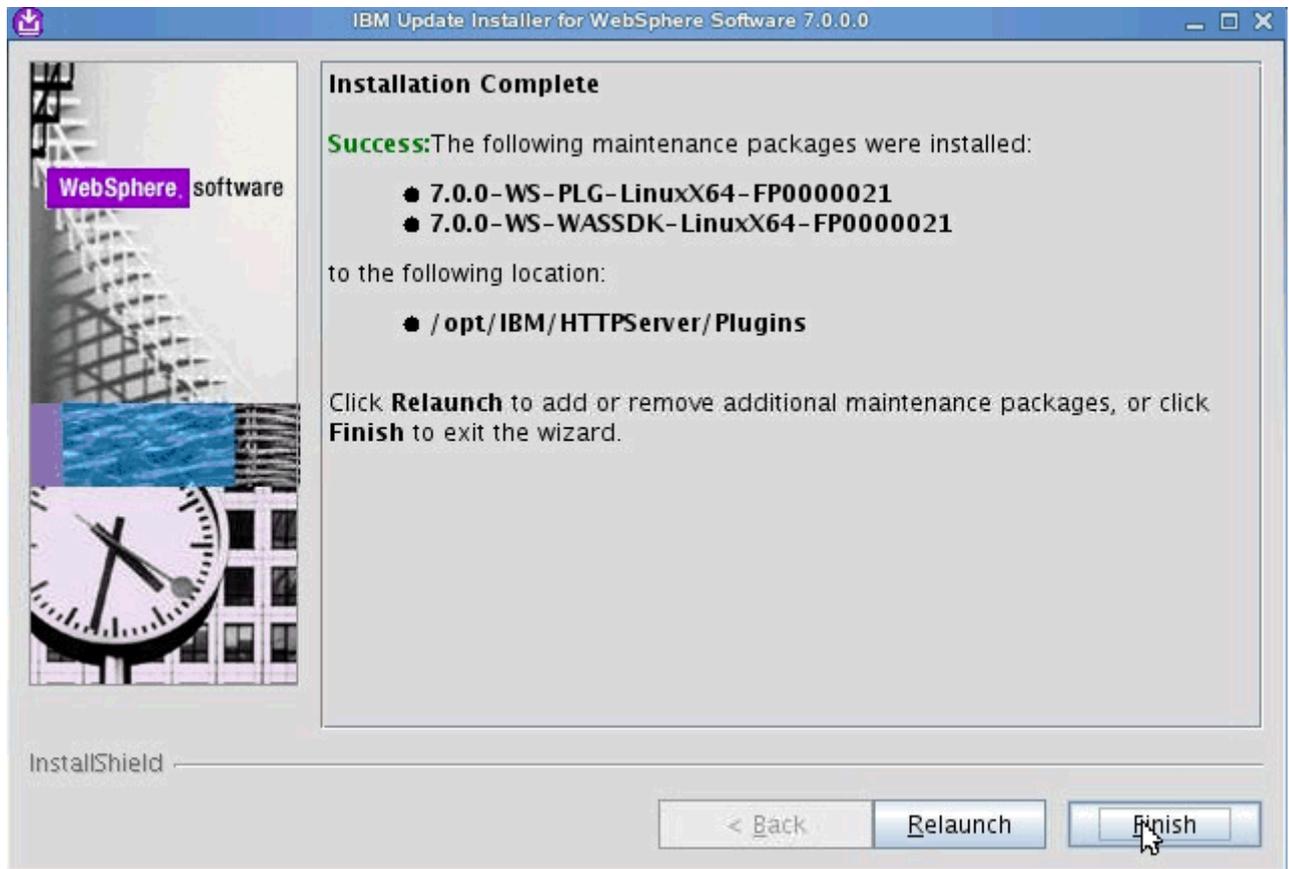


Figure 44. IBM Update Installer for WebSphere Software wizard: Installation Complete screen

Install Oracle

1. Open a VNC windows by using Oracle:

```
Oraclehost:/opt # rm -rf oracle
Oraclehost:/opt # mkdir oracle
Oraclehost:/opt # chown oracle:dba oracle
Oraclehost:/opt # ls -l
drwxr-xr-x 2 oracle dba 4096 Aug 27 08:13 oracle
```

```
oracle@██████████ /> cd /software/database/
oracle@██████████ /software/database> dir
total 64
drwxrwxrwx 12 root root 4096 2011-09-19 04:39 doc
drwxrwxrwx 4 root root 4096 2011-09-22 08:37 install
-rwxrwxrwx 1 root root 28122 2011-09-22 09:57 readme.html
drwxrwxrwx 2 root root 4096 2011-09-22 08:37 response
drwxrwxrwx 2 root root 4096 2011-09-22 08:37 rpm
-rwxrwxrwx 1 root root 3226 2011-09-22 08:26 runInstaller
drwxrwxrwx 2 root root 4096 2011-09-22 08:37 sahsetup
drwxrwxrwx 14 root root 4096 2011-09-22 08:37 stage
-rwxrwxrwx 1 root root 5466 2011-08-23 06:07 welcome.html
oracle@██████████ /software/database> ./runInstaller
Starting Oracle Universal Installer...
```

Figure 45. Starting Oracle Universal Installer

2. The Oracle Database 11g Release 2 Installer opens. Click **Next**.

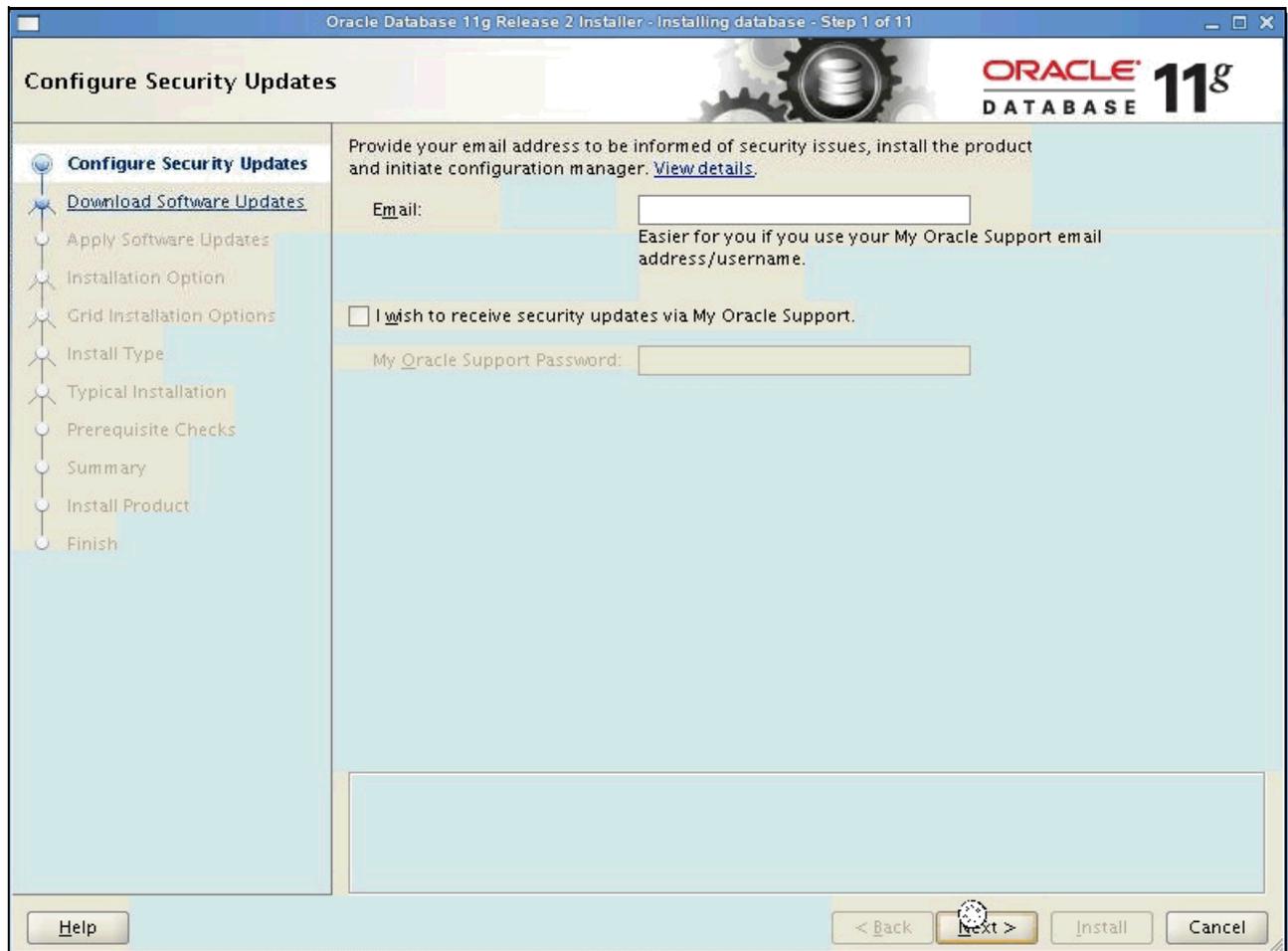


Figure 46. Oracle Database 11g Release 2 Installer: Configure Security Updates

3. In the message window "Do you wish to remain uninformed of critical security issues in your configuration?", click **Yes**.

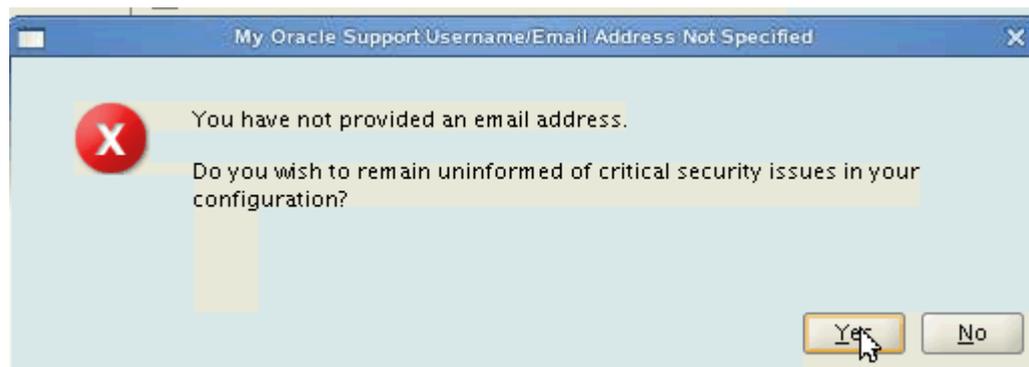


Figure 47. My Oracle Support Username/Email Address Not Specified

4. In the Select Installation Option screen, select Install database software only and click **Next**.

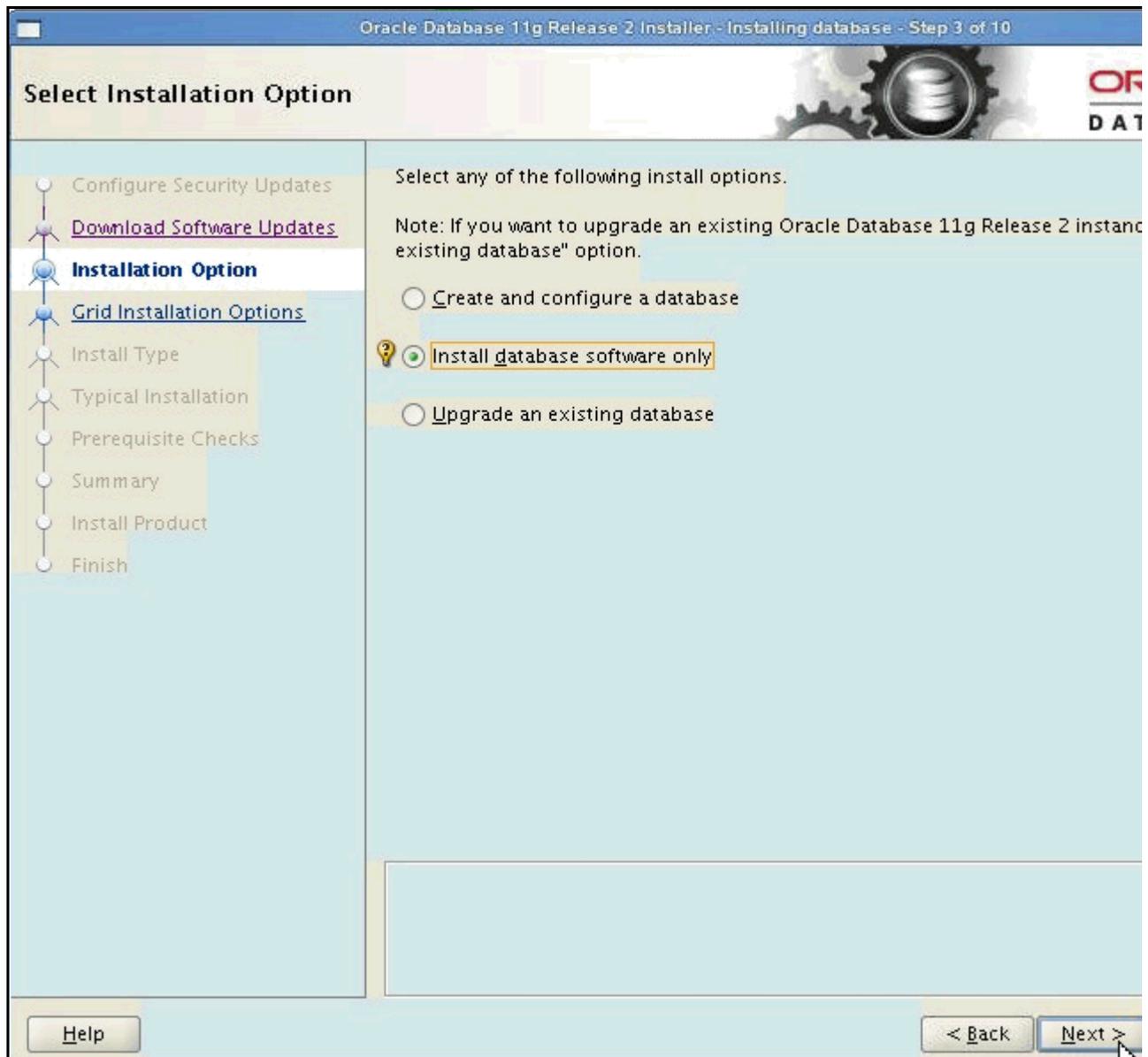


Figure 48. Oracle Database 11g Release 2 Installer: Select Installation Option screen

5. In the Grid Installation Options screen, select Single instance database installation and click **Next**.

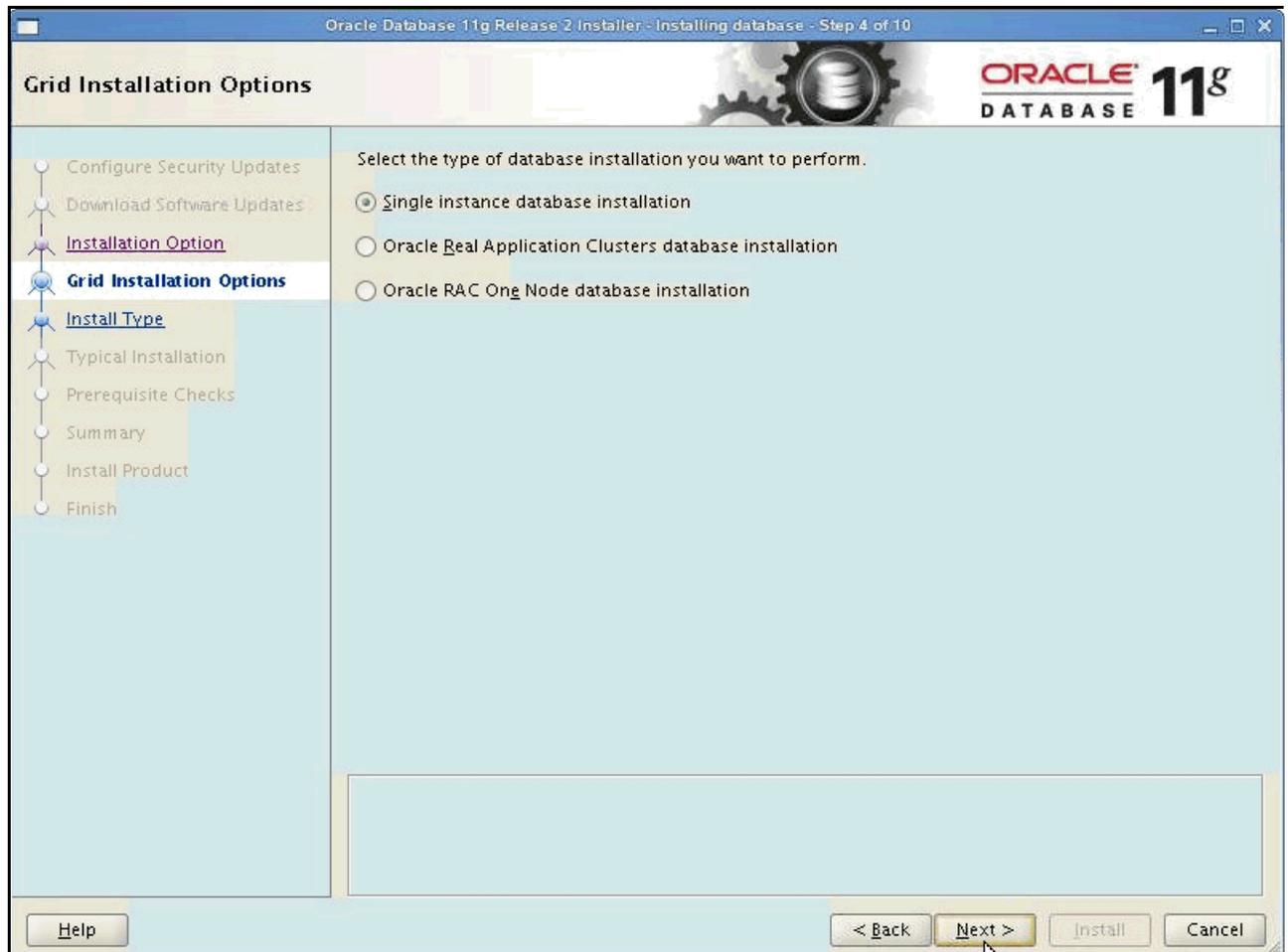


Figure 49. Oracle Database 11g Release 2 Installer: Grid Installation Options screen

6. Select the languages in which the product runs and click **Next**.

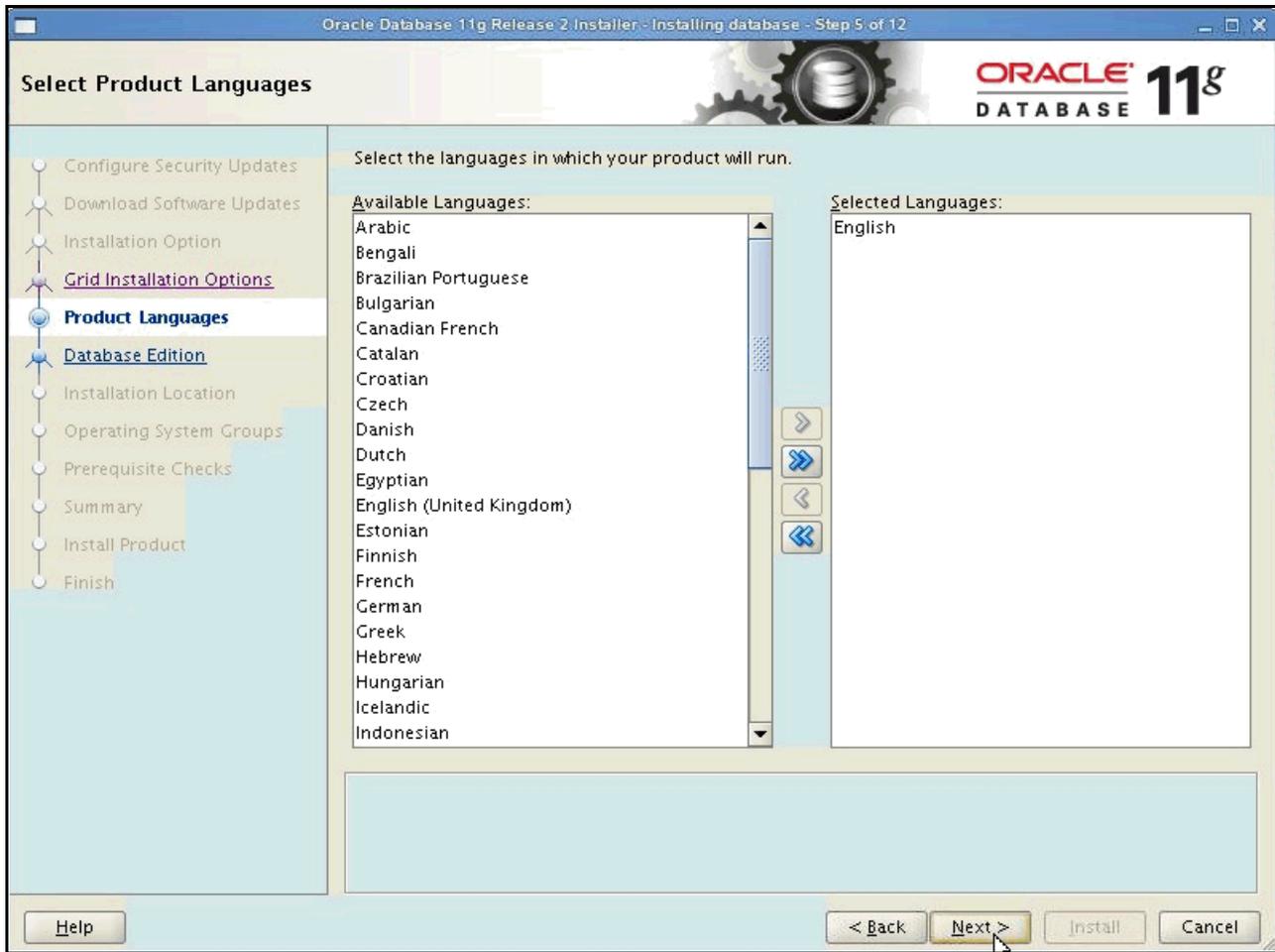


Figure 50. Oracle Database 11g Release 2 Installer: Select Product Languages screen

7. Select Enterprise Edition (4.5GB) as the database edition where you want to install and click **Next**.

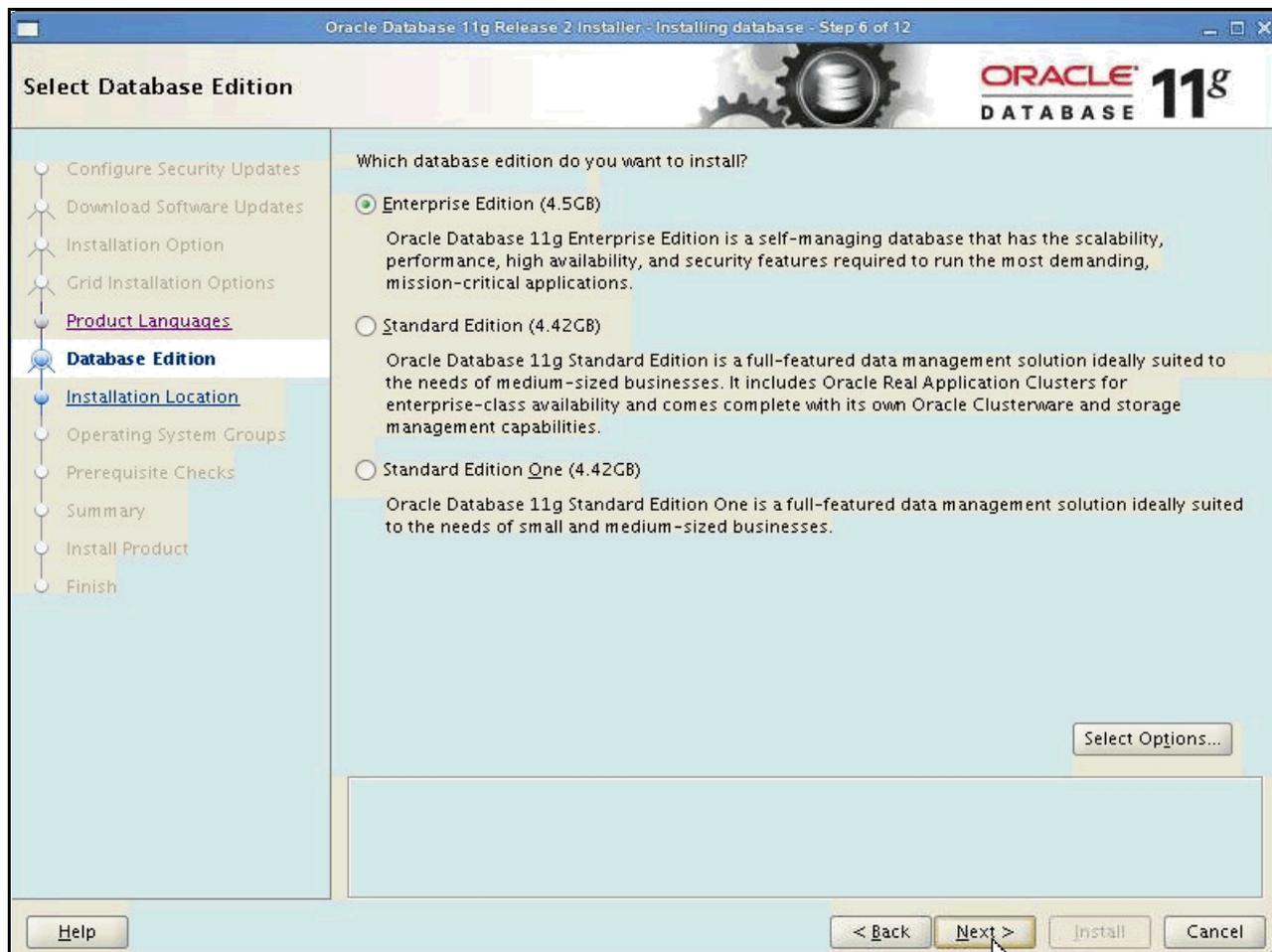


Figure 51. Oracle Database 11g Release 2 Installer: Select Database Edition screen

8. In the Download Software Updates screen, select Skip software updates and click **Next**.

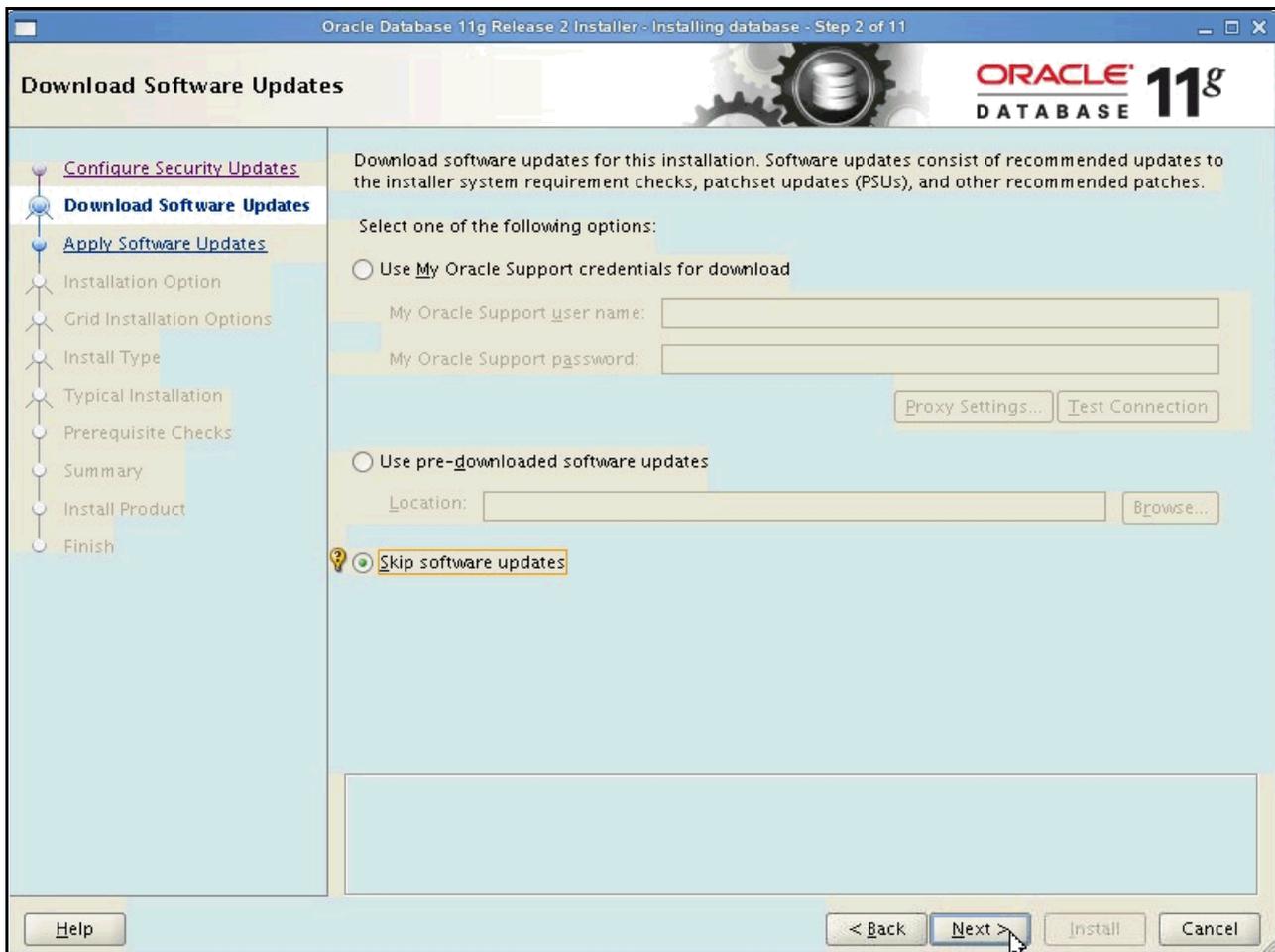


Figure 52. Oracle Database 11g Release 2 Installer: Download Software Updates screen

9. Select the installation locations for the Oracle base and the software and click **Next**.

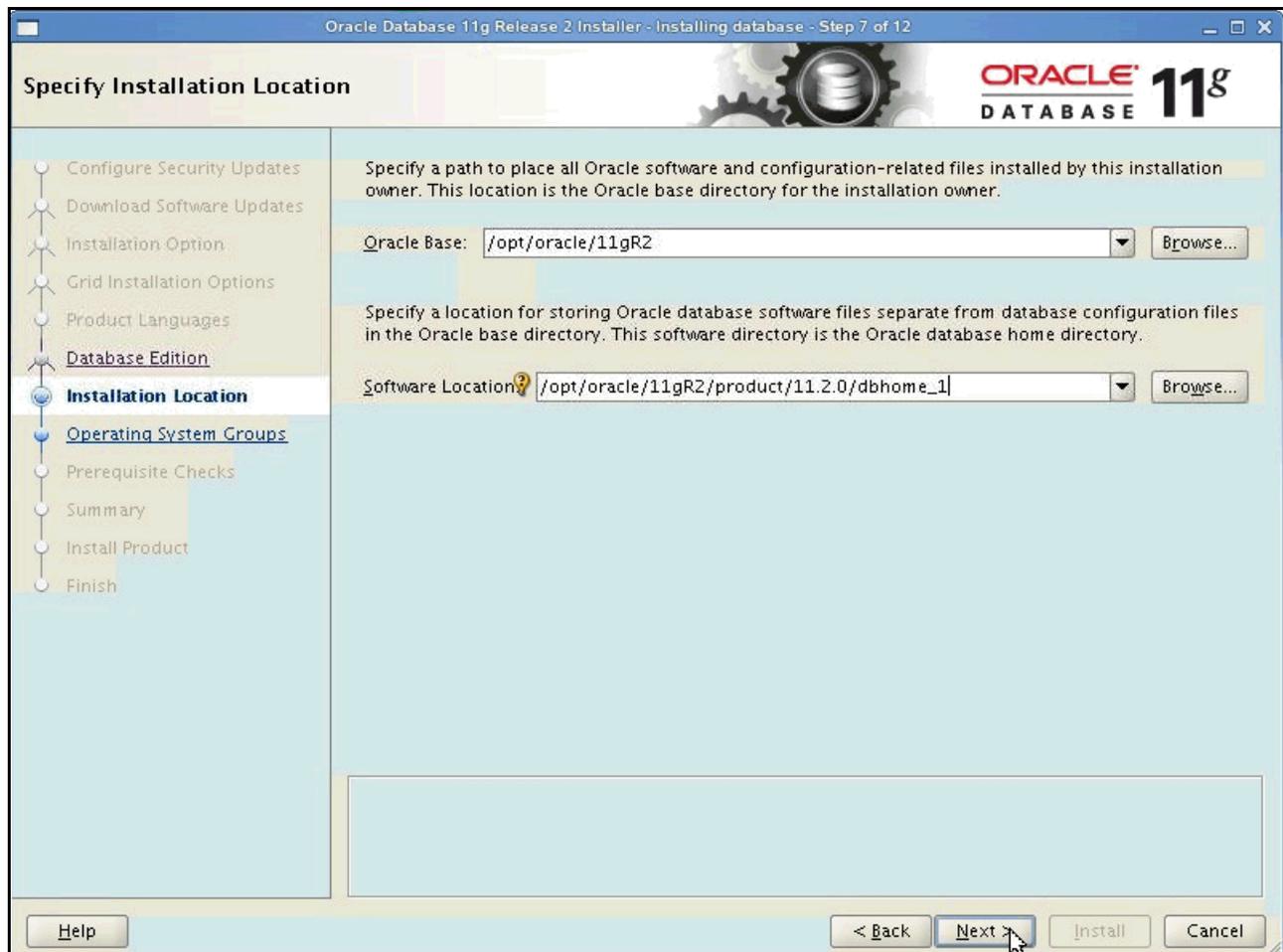


Figure 53. Oracle Database 11g Release 2 Installer: Specify Installation Location screen

10. Select the name of the OSDBA group to grant the SYSDBA privilege and click **Next**.

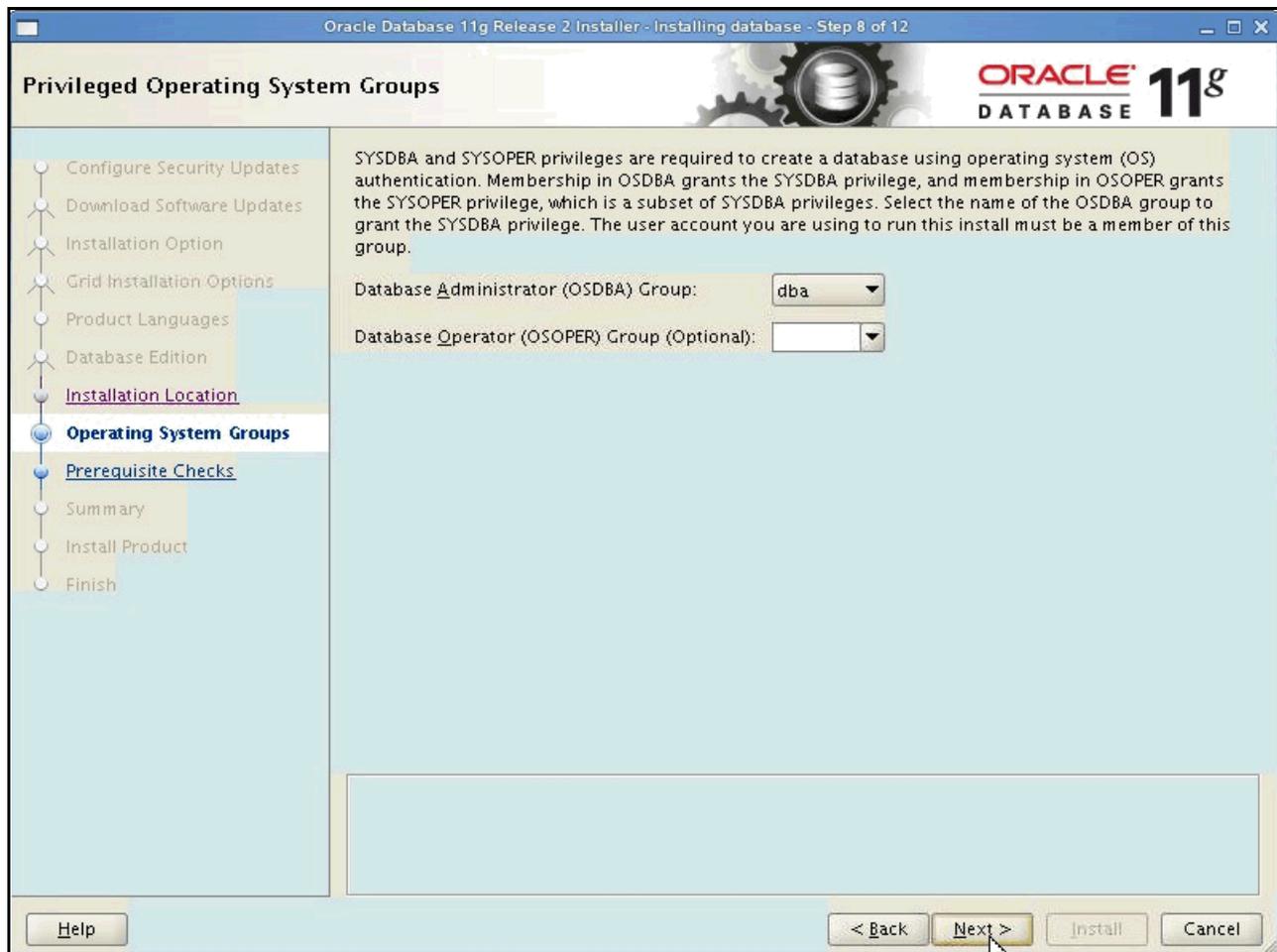


Figure 54. Oracle Database 11g Release 2 Installer: Privileged Operating System Groups screen

11. Run a prerequisite check and click **Next**.

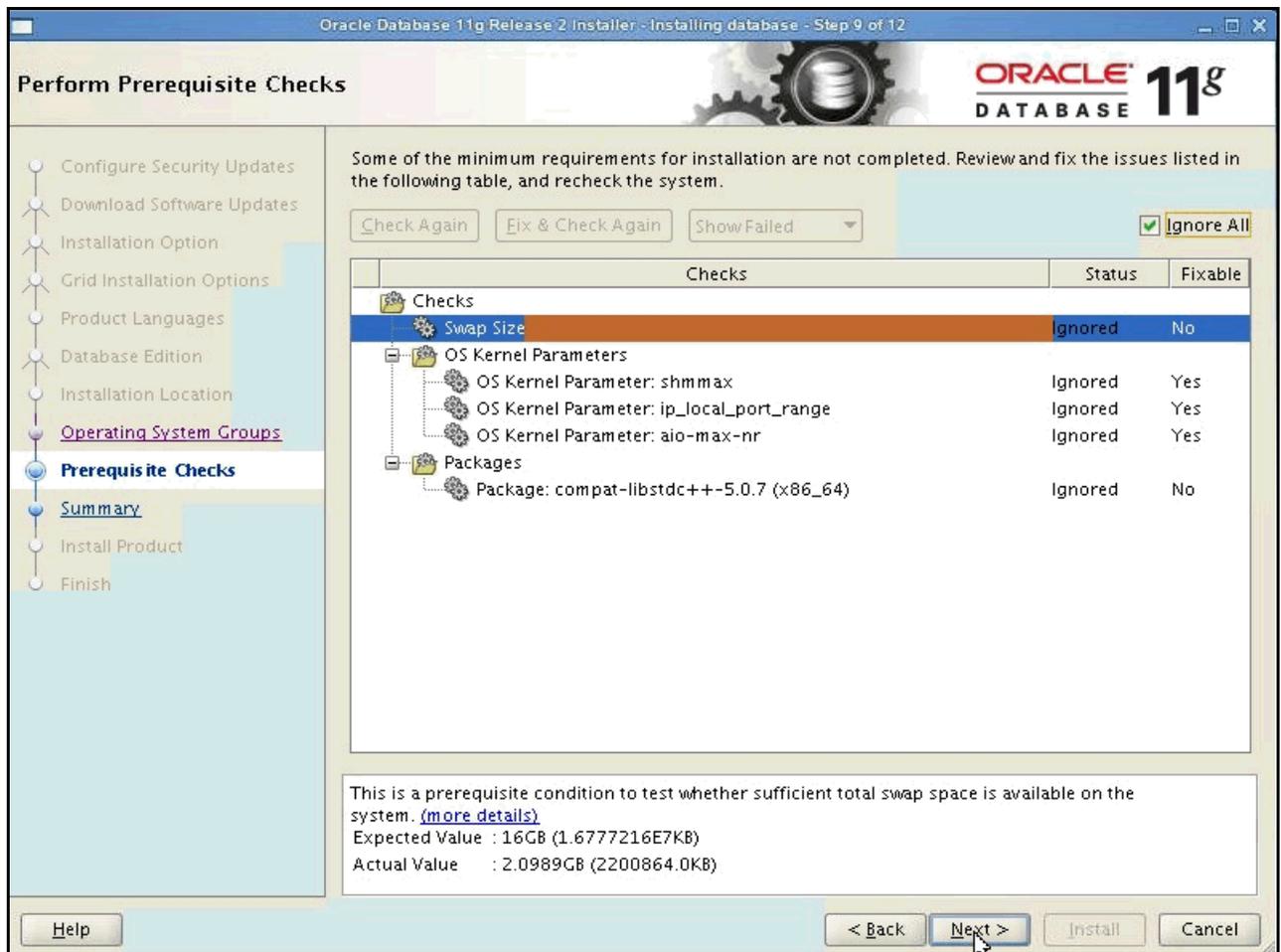


Figure 55. Oracle Database 11g Release 2 Installer: Perform Prerequisite Checks screen

12. There might be some unfulfilled prerequisites. In the message window, click **Yes** to ignore them.

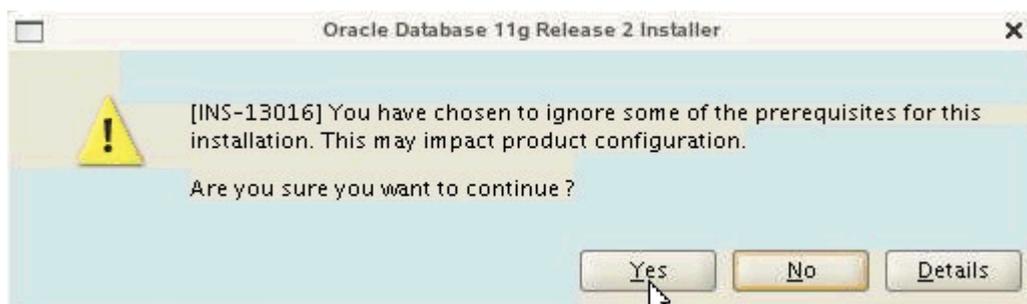


Figure 56. Oracle Database 11g Release 2 Installer: Warning message

___ 13. Run the following command according to the warning:

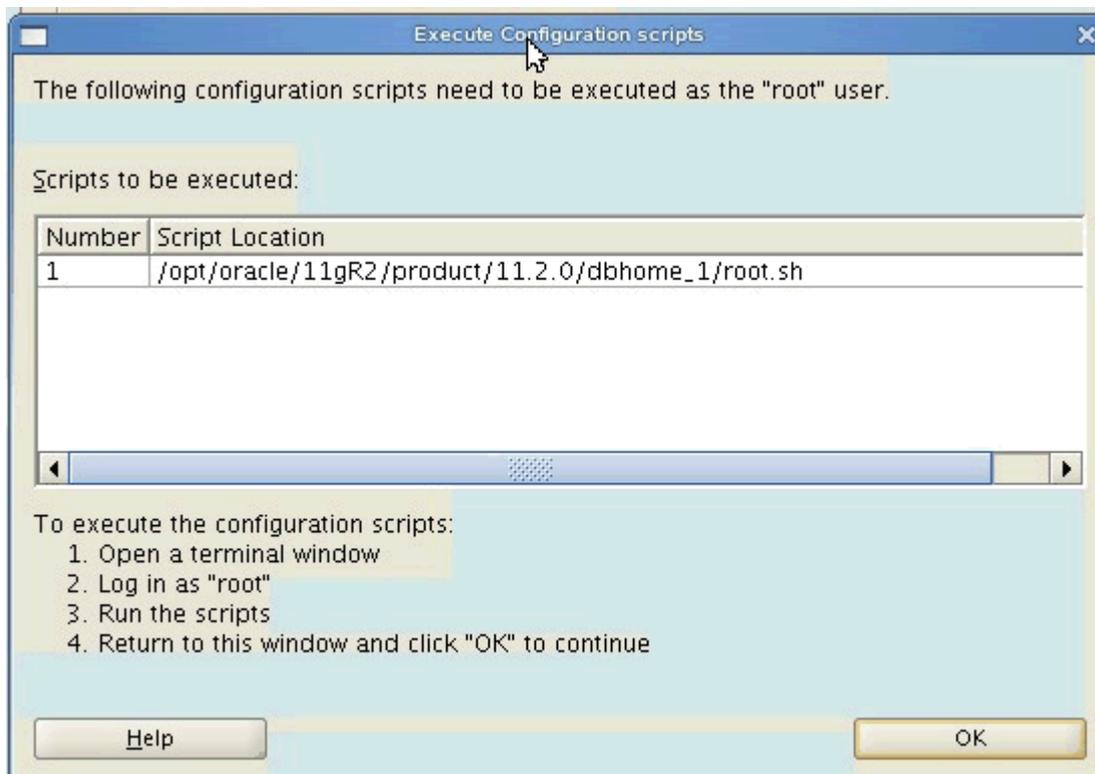


Figure 57. Oracle Database 11g Release 2 Installer: Execute Configuration script

14. Rerun a prerequisite check.

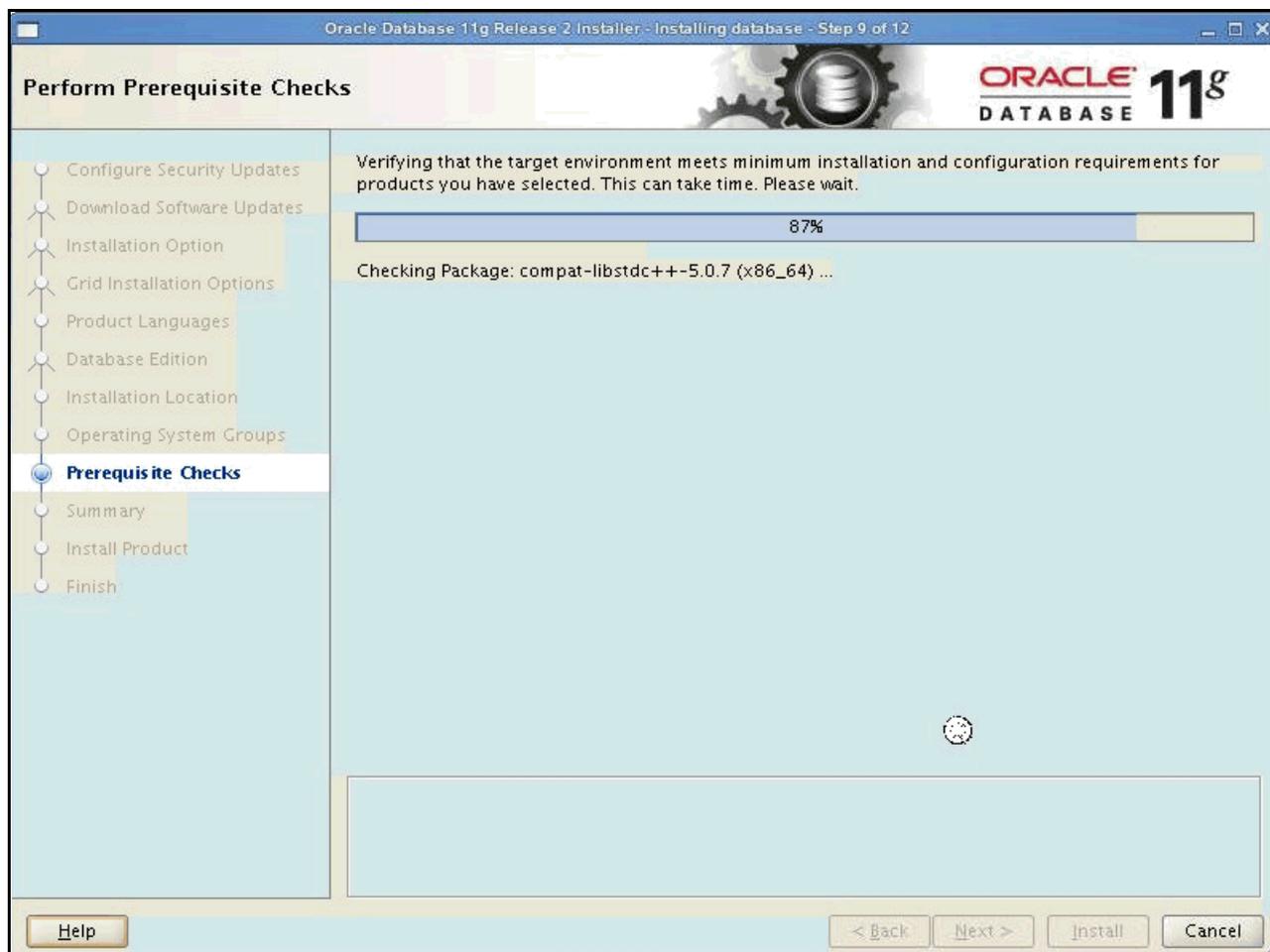


Figure 58. Oracle Database 11g Release 2 Installer: Perform Prerequisite Checks screen

Install TDI7.1

1. Open the IBM Directory Integrator v7.1.

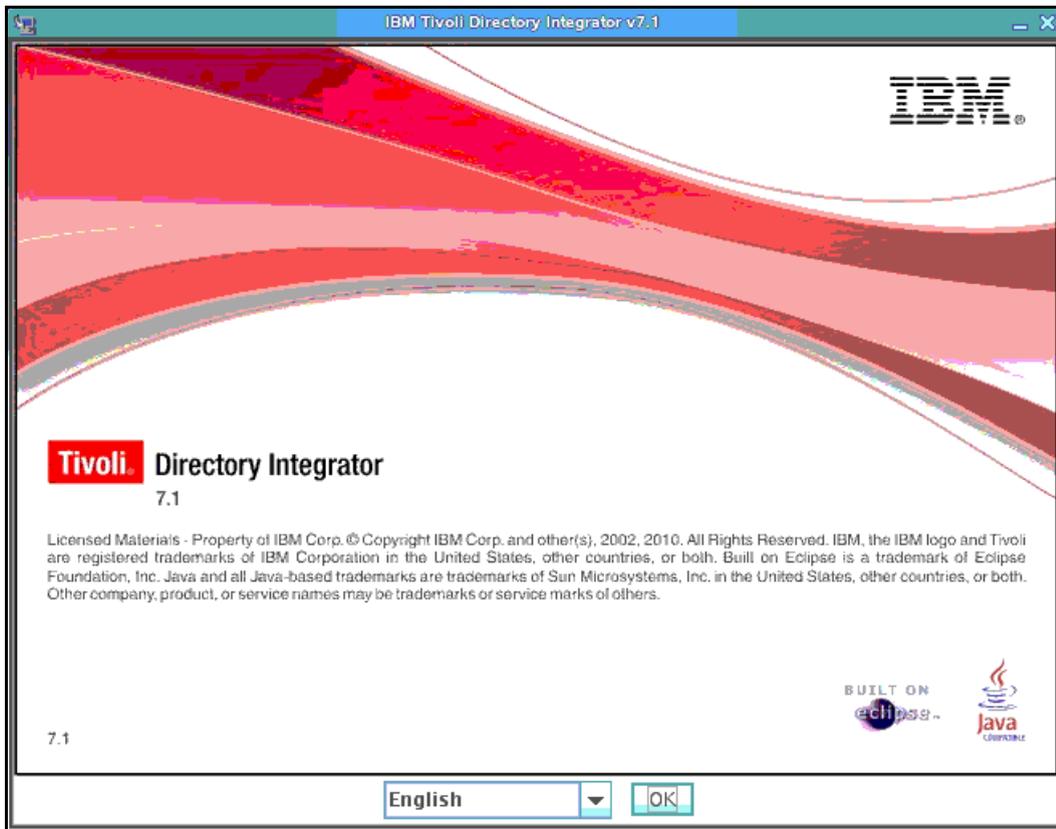


Figure 59. IBM Directory Integrator v7.1

2. In the Introduction screen, click **Next**.

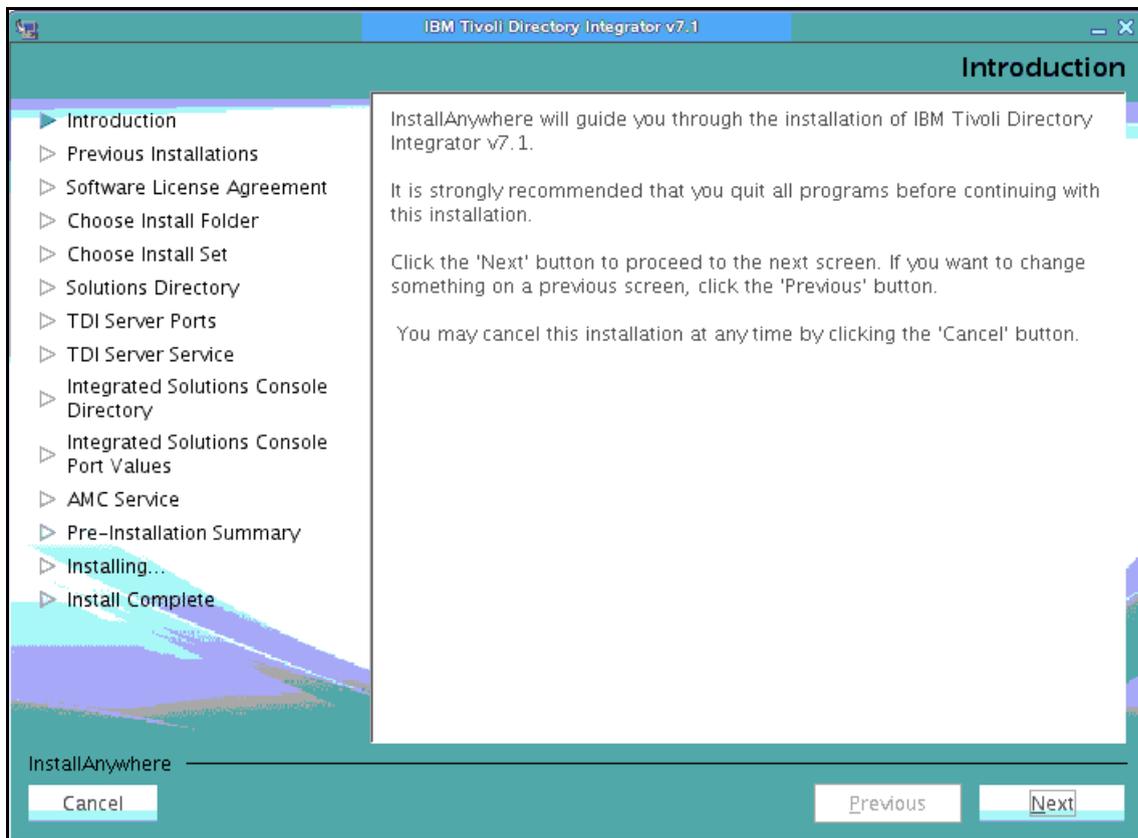


Figure 60. IBM Directory Integrator v7.1: Introduction screen

___ 3. Check for previous installations and click **Next**.

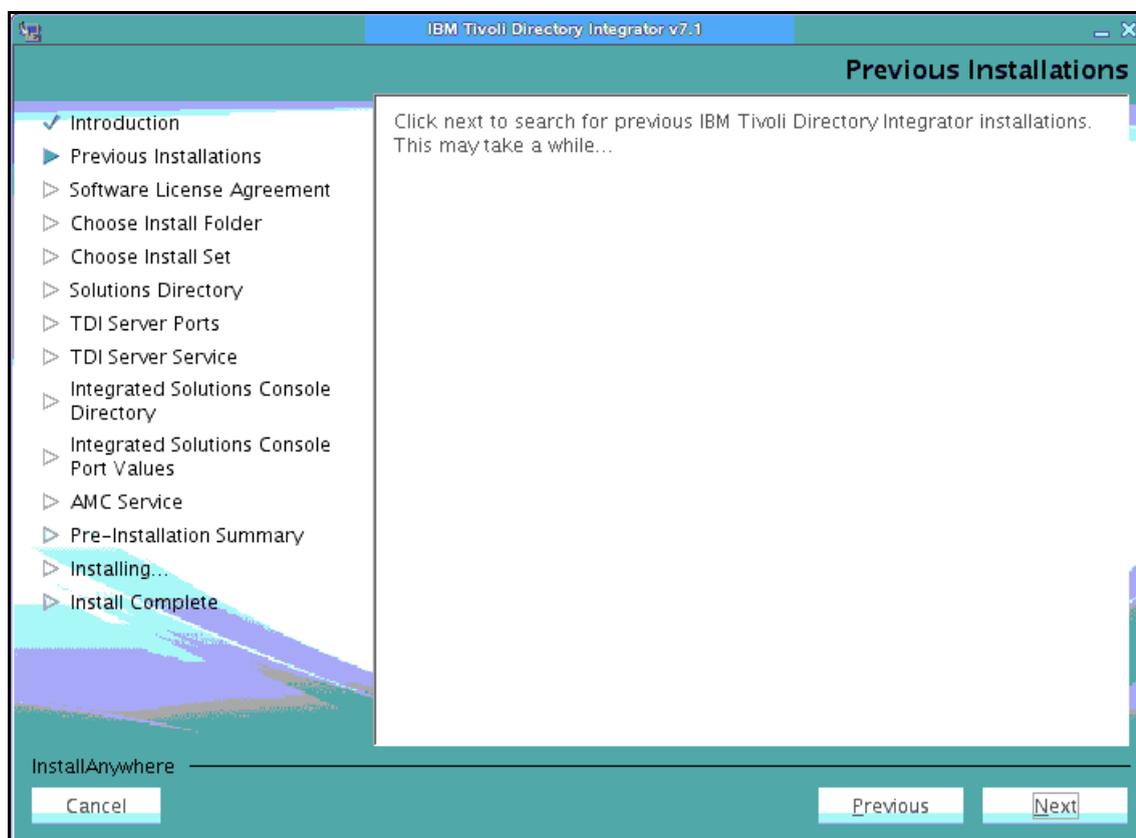


Figure 61. IBM Directory Integrator v7.1: Previous installations screen

4. Accept the license agreement and click **Next**.

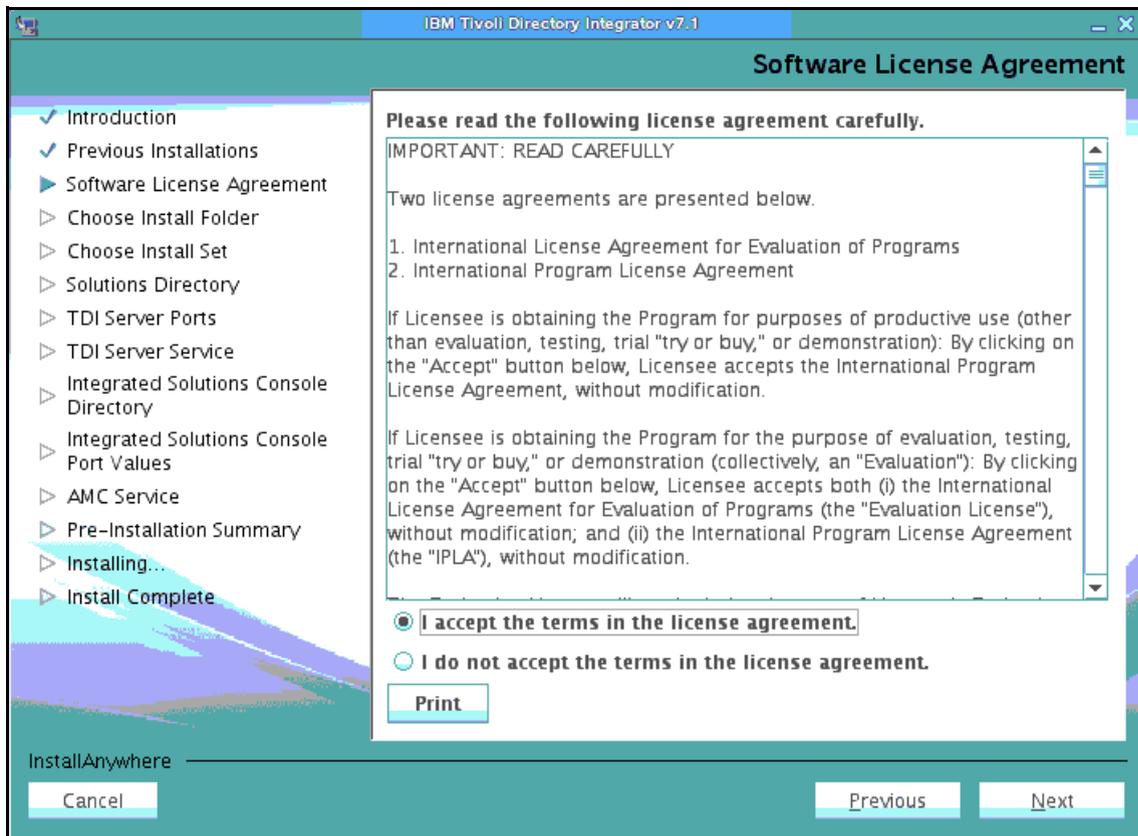


Figure 62. IBM Directory Integrator v7.1: Software License Agreement screen

5. Select the installation folder and click **Next**.

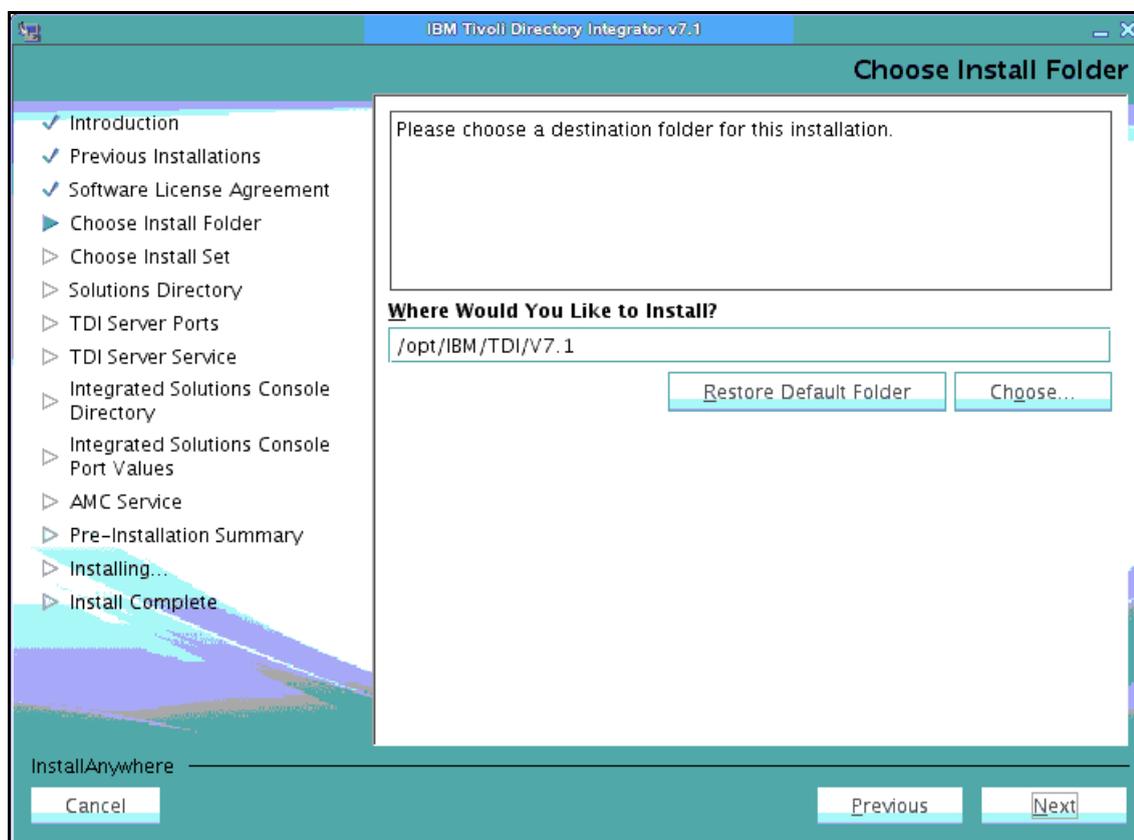


Figure 63. IBM Directory Integrator v7.1: Choose Install Folder screen

6. Select **Typical** as the Install Set and click **Next**.

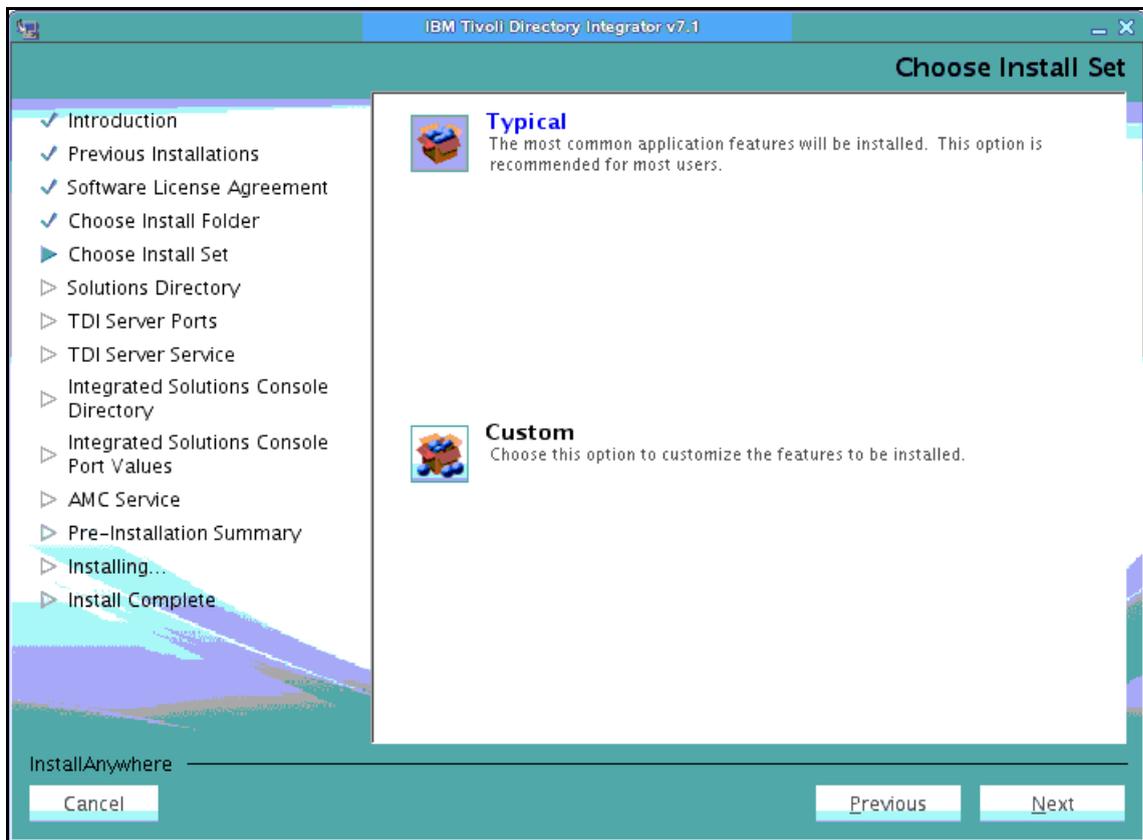


Figure 64. IBM Directory Integrator v7.1: Choose Install Set screen

7. You can select a solutions directory. In this case, select Do not specify and click **Next**.

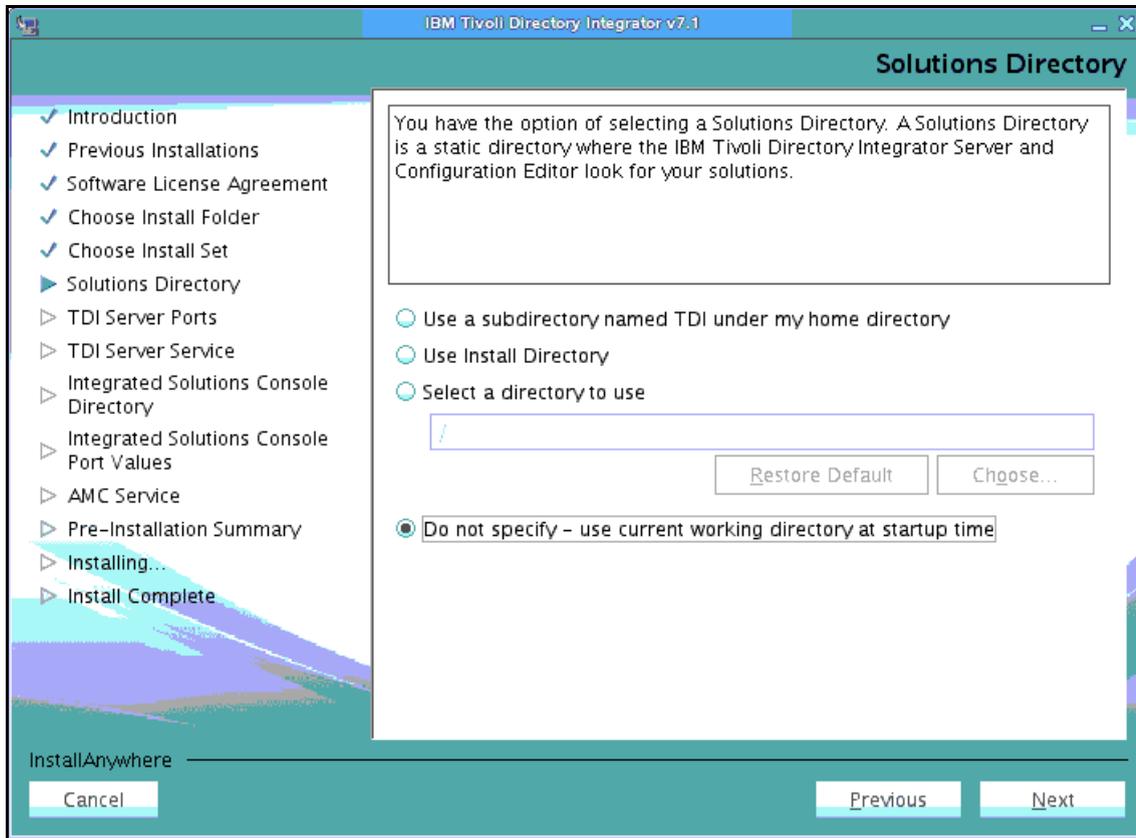


Figure 65. IBM Directory Integrator v7.1: Solutions Directory screen

- ___ 8. Enter the port values and click **Next**.

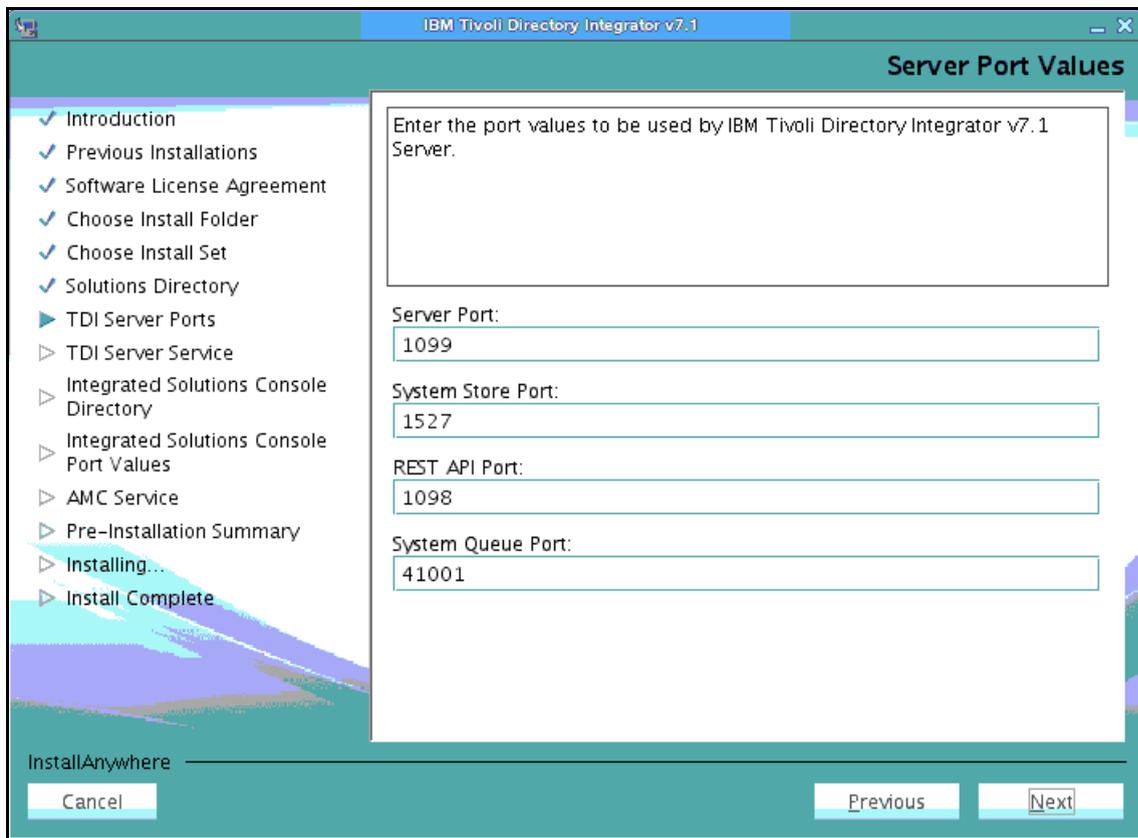


Figure 66. IBM Directory Integrator v7.1: Server Port Values screen

9. Select **Register as a system service** if you want to register the product as a system service and click **Next**.

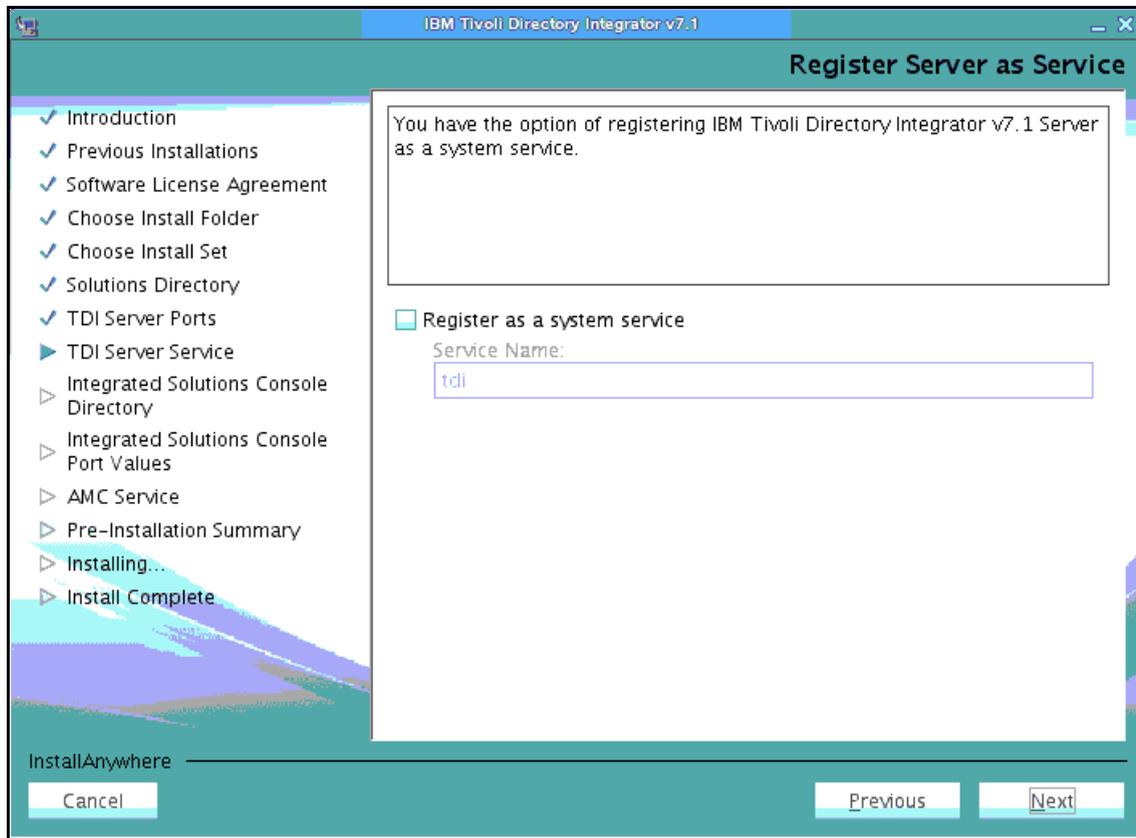


Figure 67. IBM Directory Integrator v7.1: Register Server as Service screen

10. Select **Register as a system service** if you want to register the Administration and Monitoring Console as a system service and click **Next**.

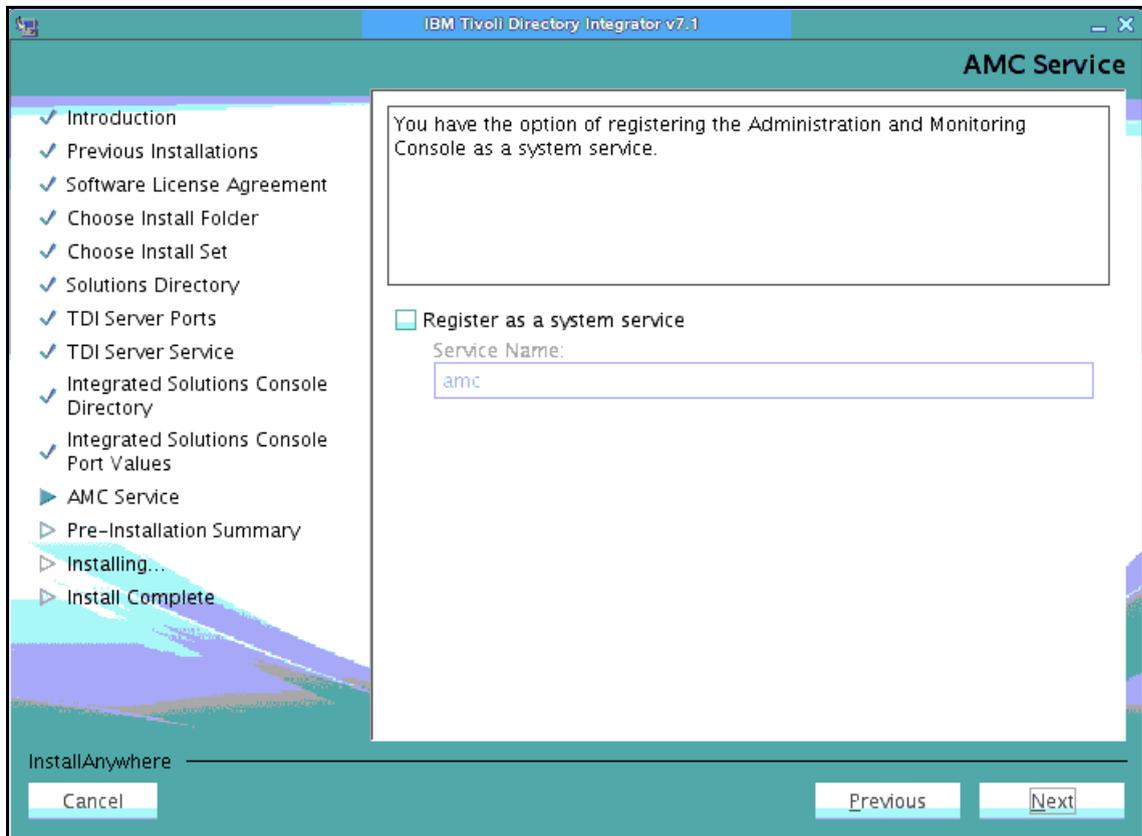


Figure 68. IBM Directory Integrator v7.1: AMC Service screen

11. Enter the values for the integrated solutions console port and click **Next**.

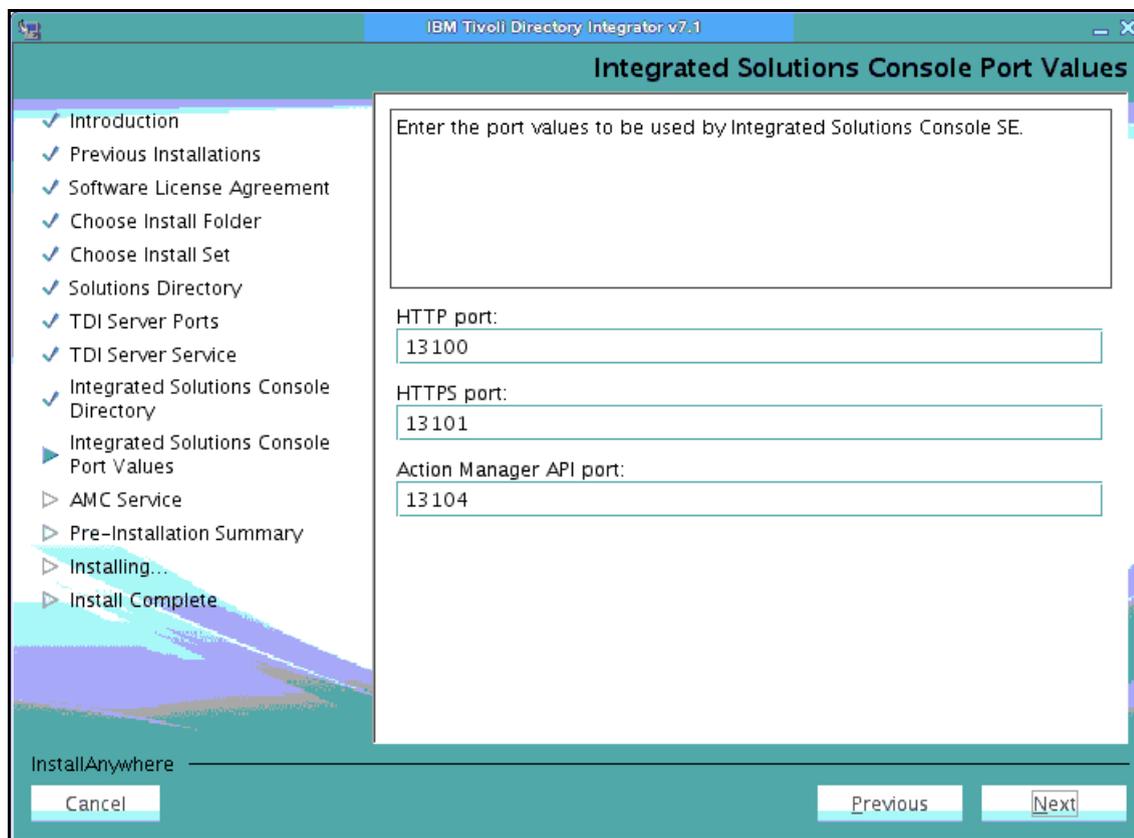


Figure 69. IBM Directory Integrator v7.1: Integrated Solutions Console Port Values screen

12. Check the pre-installation summary for the product and click **Next**.

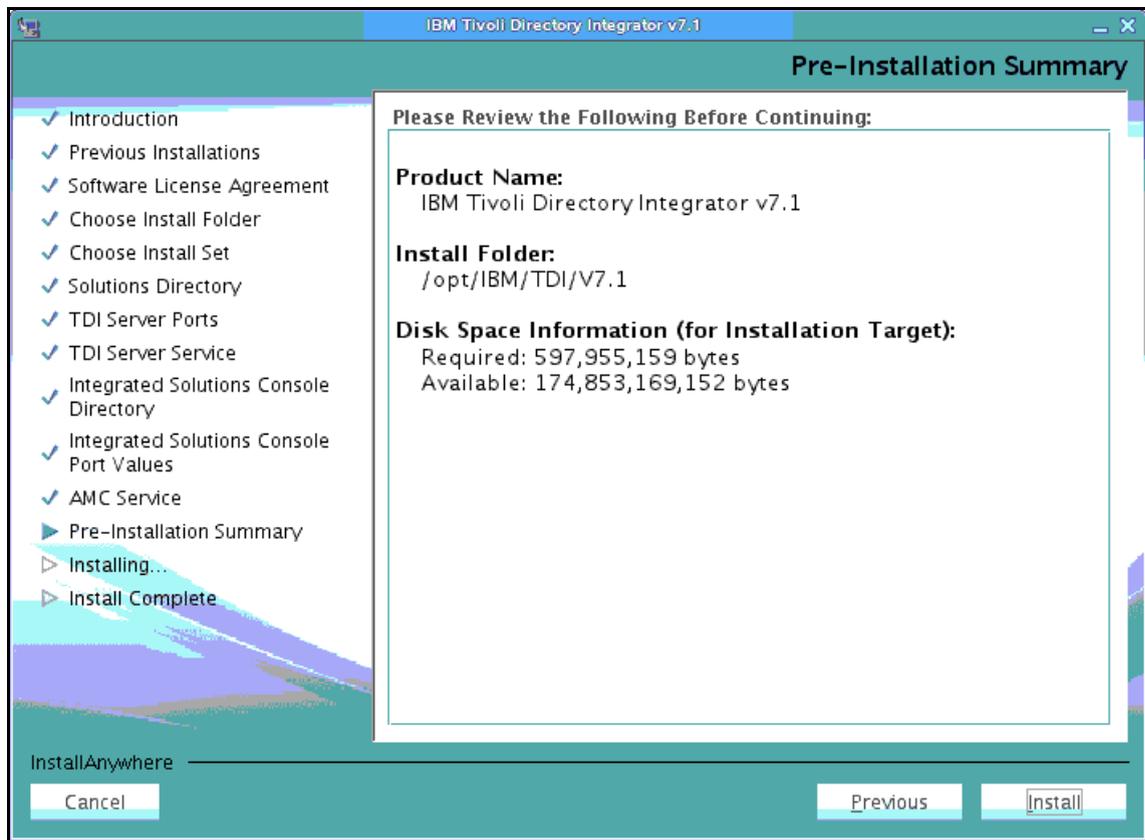


Figure 70. IBM Directory Integrator v7.1: Pre-installation Summary screen

The installation begins.

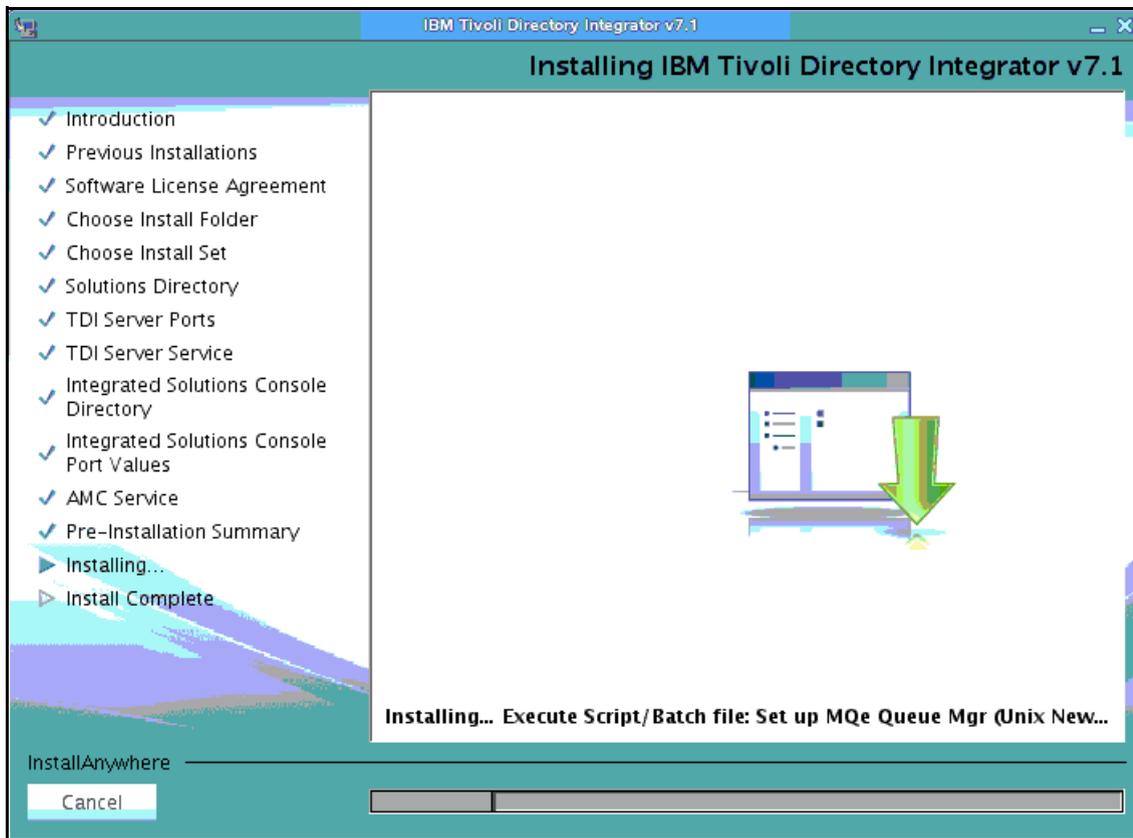


Figure 71. IBM Directory Integrator v7.1: Installation in progress screen

___ 13. The installation completes. Click **Done**.

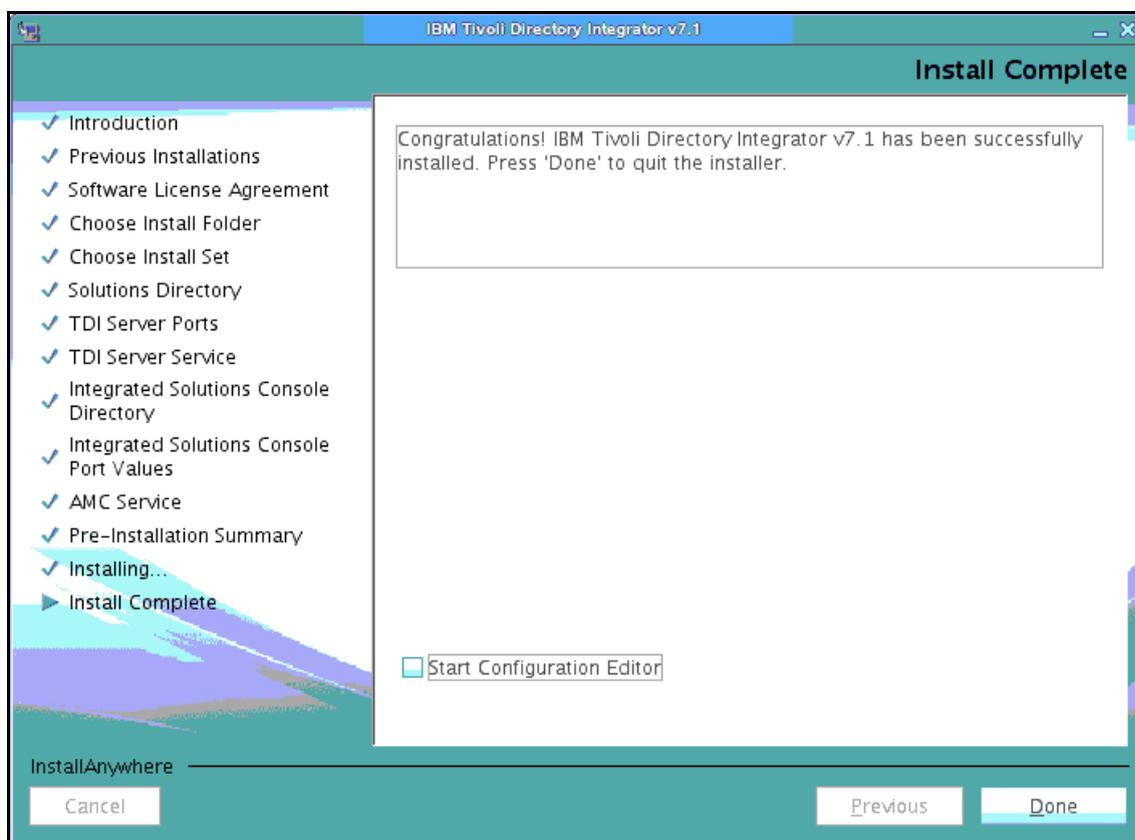


Figure 72. IBM Directory Integrator v7.1: Install complete screen

___ 14. Finally, apply fp5:

```

/opt/IBM/TDI/V7.1/bin # ./applyUpdates.sh -update /software/tdi/fp5/
7.1.0-TIV-TDI-FP0005/TDI-7.1-FP0005.zip
./applyUpdates.sh: line 57: -Dlog4j.configuration=file:/opt/IBM/TDI/V7.1/etc/upd
ateinstaller-log4j.properties: No such file or directory
log4j:WARN No appenders could be found for logger (UpdateInstaller.UpdateInstall
erMsgs).
log4j:WARN Please initialize the log4j system properly.
CTGDK0023I Applying fix 'TDI-7.1-FP0005' using backup directory '/opt/IBM/TDI/V7
.1/maintenance/BACKUP/TDI-7.1-FP0005'.
CTGDK0027I Updating SERVER.
CTGDK0027I Updating CE.
CTGDK0027I Updating EXAMPLES.

```

Figure 73. IBM Directory Integrator v7.1: Applying fp5

Configure HTTP server

Configure HTTP Server and plug-in

__ 1. Under System administration, click **Nodes**.

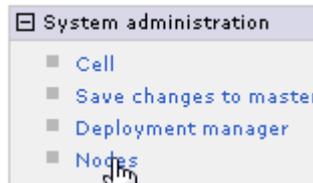


Figure 74. System Administration > Nodes

__ 2. Click **Add Node**.

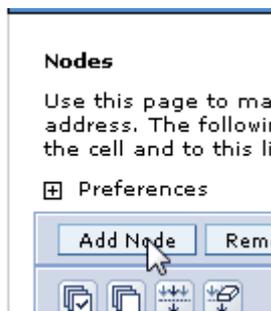


Figure 75. Nodes > Add Node

__ 3. Under Add Node, select **Unmanaged node**.

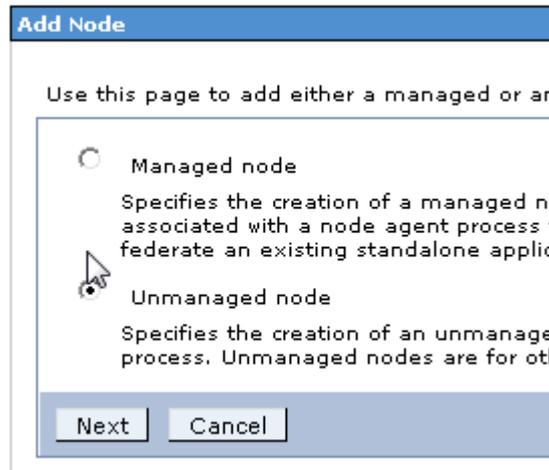


Figure 76. Add Node > Unmanaged node

- ___ 4. Enter a host name for the new node and click **OK**.

Nodes

Nodes > New

Use this page to view or change the configuration for an agent running to manage the process. Unmanaged nodes are not supported.

Configuration

General Properties

* Name: IHS

* Host Name: <Host name>

* Platform Type: Linux

Apply OK Reset Cancel

Figure 77. Entering a host name for the new node

- ___ 5. Click **Save** to save changes.

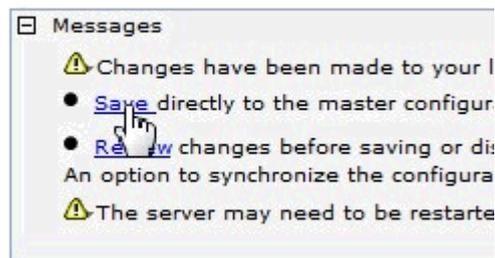


Figure 78. Messages > Save

- ___ 6. Synchronize with all nodes.

7. Create a web server. Under **Server > Server Types**, click **Web servers**.

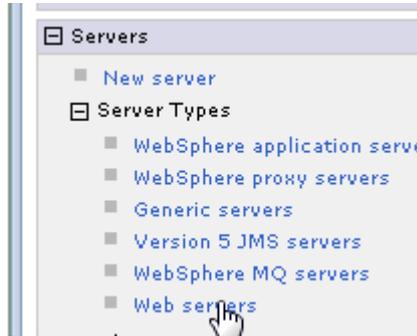


Figure 79. Servers > Server Types > Web servers

8. Click **New**:



Figure 80. Web servers > New

9. Enter a name in the Server name field and click **Next**.

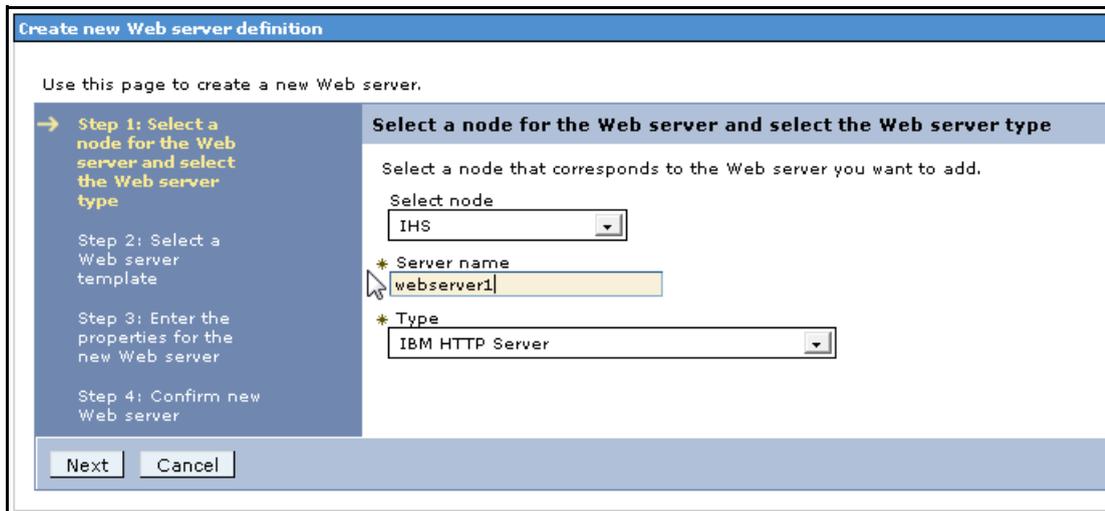


Figure 81. Creating new Web server definition: Entering a server name

10. Select **IHS** as the web server template and click **Next**.

The screenshot shows the 'Create new Web server definition' wizard. The title bar reads 'Create new Web server definition'. Below the title bar, it says 'Use this page to create a new Web server.' On the left, a vertical sidebar contains four steps: Step 1: Select a node for the Web server and select the Web server type; Step 2: Select a Web server template (highlighted with a yellow arrow); Step 3: Enter the properties for the new Web server; and Step 4: Confirm new Web server. The main area is titled 'Select a Web server template' and contains the instruction 'Select the template that corresponds to the server that you want to create.' Below this is a table with columns 'Select', 'Template Name', 'Type', and 'Description'. The table has one row with a radio button in the 'Select' column, 'IHS' in the 'Template Name' column, 'System' in the 'Type' column, and 'The IHS Web Server Template' in the 'Description' column. At the bottom, there are three buttons: 'Previous', 'Next' (with a mouse cursor over it), and 'Cancel'.

Select	Template Name	Type	Description
<input type="radio"/>	IHS	System	The IHS Web Server Template

Figure 82. Creating new Web server definition: Selecting a Web server template

11. Enter the properties for the new web server and click **Next**.

The screenshot shows the 'Create new Web server definition' wizard. The title bar reads 'Create new Web server definition'. Below the title bar, it says 'Use this page to create a new Web server.' On the left, a vertical sidebar contains four steps: Step 1: Select a node for the Web server and select the Web server type; Step 2: Select a Web server template; Step 3: Enter the properties for the new Web server (highlighted with a yellow arrow); and Step 4: Confirm new Web server. The main area is titled 'Enter the properties for the new Web server' and contains the instruction 'Enter the Web server properties.' Below this are several input fields: '* Port' with '80', '* Web server installation location' with '/opt/IBM/HTTPServer', and '* Plug-in installation location' with '/opt/IBM/HTTPServer/Plugins'. There is a dropdown menu for 'Application mapping to the Web server' set to 'All'. Below these are 'Enter the IBM Administration Server properties.' fields: '* Administration Server Port' with '8008', '* Username' with 'ihsadmin', '* Password' with '*****', and '* Confirm password' with '*****'. There is also a checkbox for 'Use SSL' which is unchecked. At the bottom, there are three buttons: 'Previous', 'Next' (with a mouse cursor over it), and 'Cancel'.

Figure 83. Creating new Web server definition: Entering the properties for the new Web server

12. Confirm the new web server and click **Finish**.

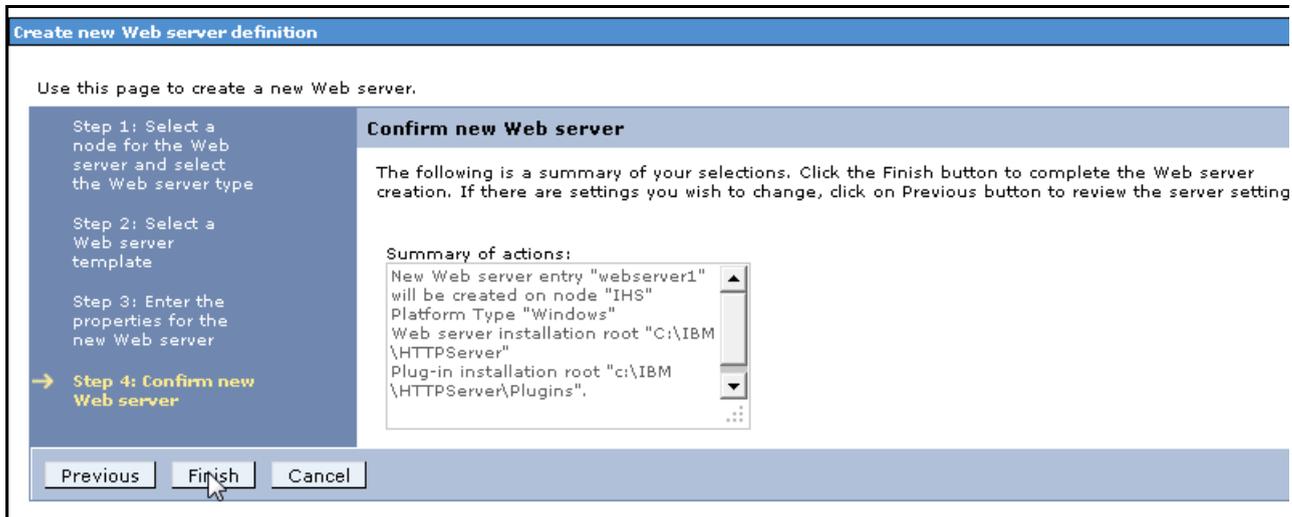


Figure 84. Creating new Web server definition: Confirming the new Web server

13. Click **Save** to save your changes.

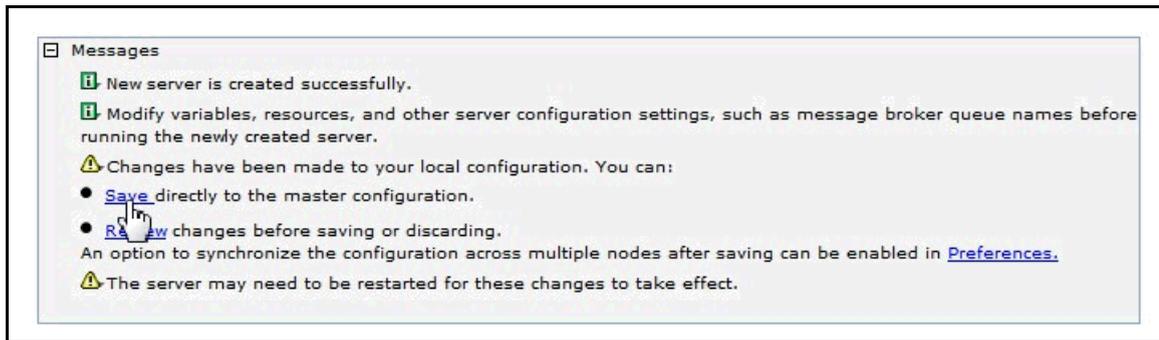


Figure 85. Saving changes

14. Under Web servers, click **Start**.



Figure 86. Starting the new server

You receive a message that the server successfully started.



Figure 87. Server successfully started

- ___ 15. Synchronize with all nodes.
- ___ 16. Generate and propagate Plug-in.
- ___ 17. Under Servers, click **Web servers**.



Figure 88. Servers > Web servers

___ 18. Click **Generate Plug-in**.



Figure 89. Generate Plug-in

___ 19. Click **Propagate Plug-in**.



Figure 90. Propagate Plug-in

___ 20. Click **webservice1**.

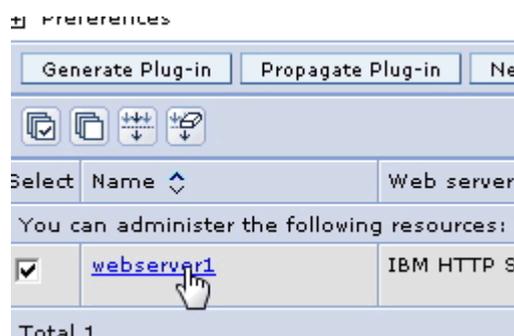


Figure 91. Administering webservice1

___ 21. Click **Plug-in properties**.



Figure 92. Plug-in properties

___ 22. Click **Copy to Web server key store directory**.

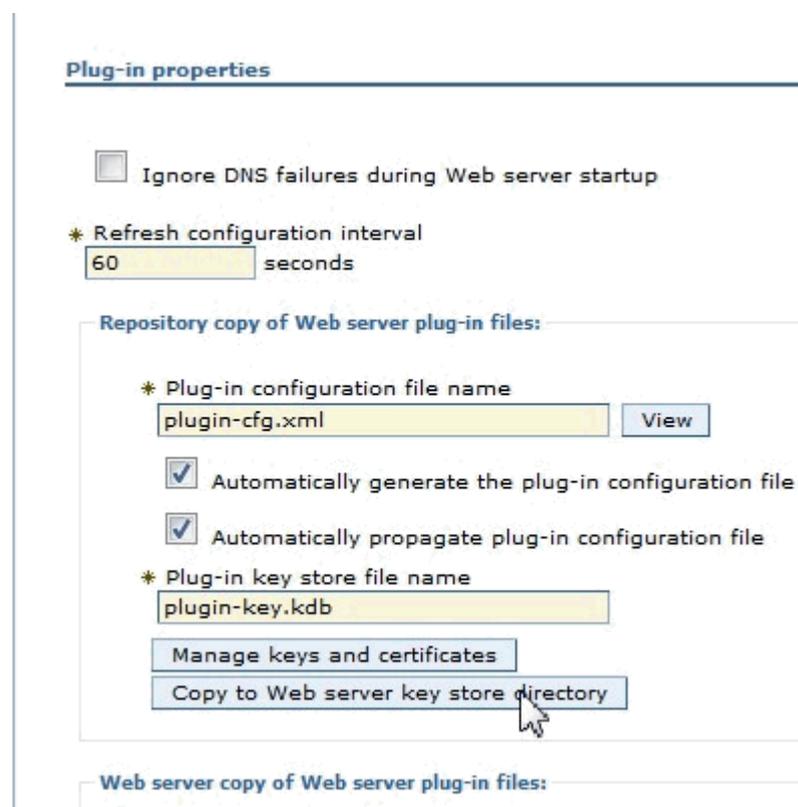


Figure 93. Copy to Web server key store directory

___ 23. Fully synchronize to all nodes.

___ 24. Restart webserver1. Click **Start**.

Web servers

Use this page to view a list of the installed Web servers.

⊕ Preferences



The screenshot shows a web management interface for web servers. At the top, there are several buttons: 'Generate Plug-in', 'Propagate Plug-in', 'New', 'Delete', 'Templates...', 'Start', and 'Stop'. Below these buttons is a toolbar with icons for selection, copy, and refresh. A table lists the installed web servers. The table has columns for 'Select', 'Name', 'Web server Type', and 'Node'. One row is visible with a checked checkbox, the name 'webserver1', the type 'IBM HTTP Server', and the node 'IHS'. Below the table, it says 'Total 1'. A mouse cursor is pointing at the 'Start' button.

Select	Name	Web server Type	Node
<input checked="" type="checkbox"/>	webserver1	IBM HTTP Server	IHS

Total 1

Figure 94. Restarting webserver1

Configure HTTP Server for SSL

Create self-signed key for SSL

1. Enter a file name for the key for SSL and click **OK**.



Figure 95. Entering a name for the key for SSL

2. Introduce a password when prompted and click **OK**.



Figure 96. Password prompt

3. The IBM Key Management opens. Click **New Self-Signed**.

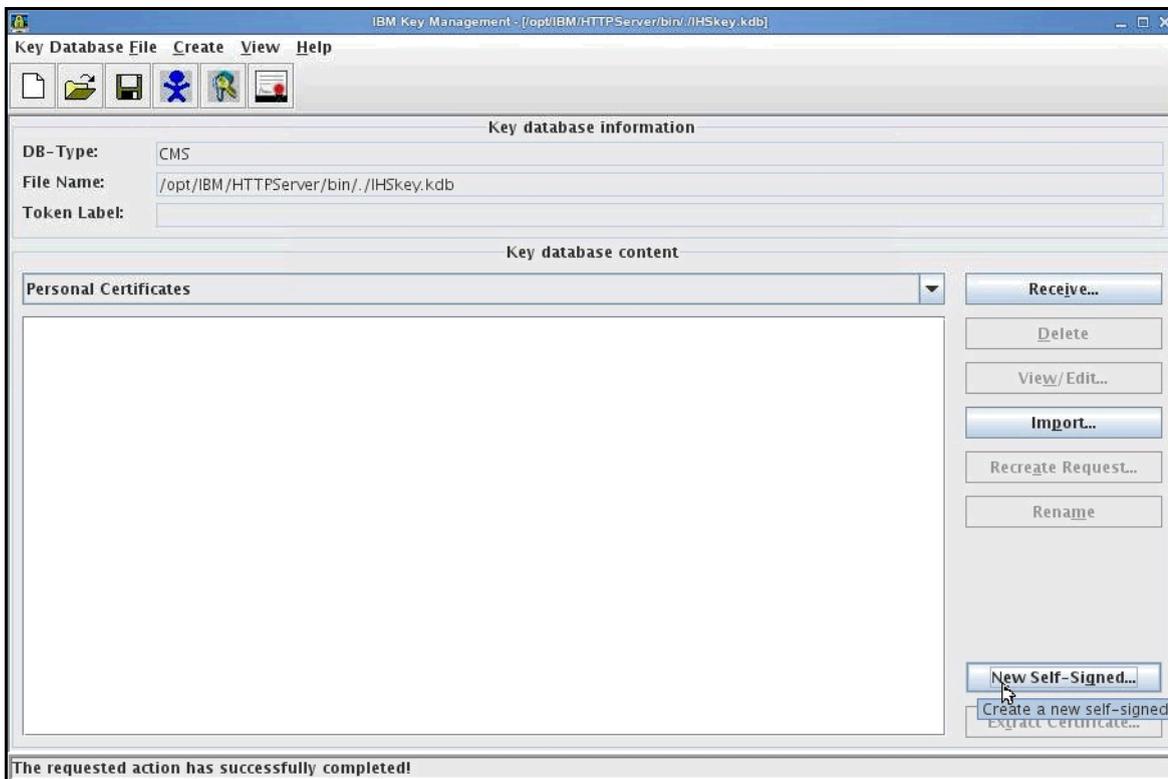


Figure 97. IBM Key Management: Key database information

- ___ 4. In the Create New Self-Signed Certificate window, enter a common name and click **OK**.

Figure 98. Create New Self-Signed Certificate window

- ___ 5. Enable and update the following lines in `/opt/IBM/HTTPserver/conf/httpd`.

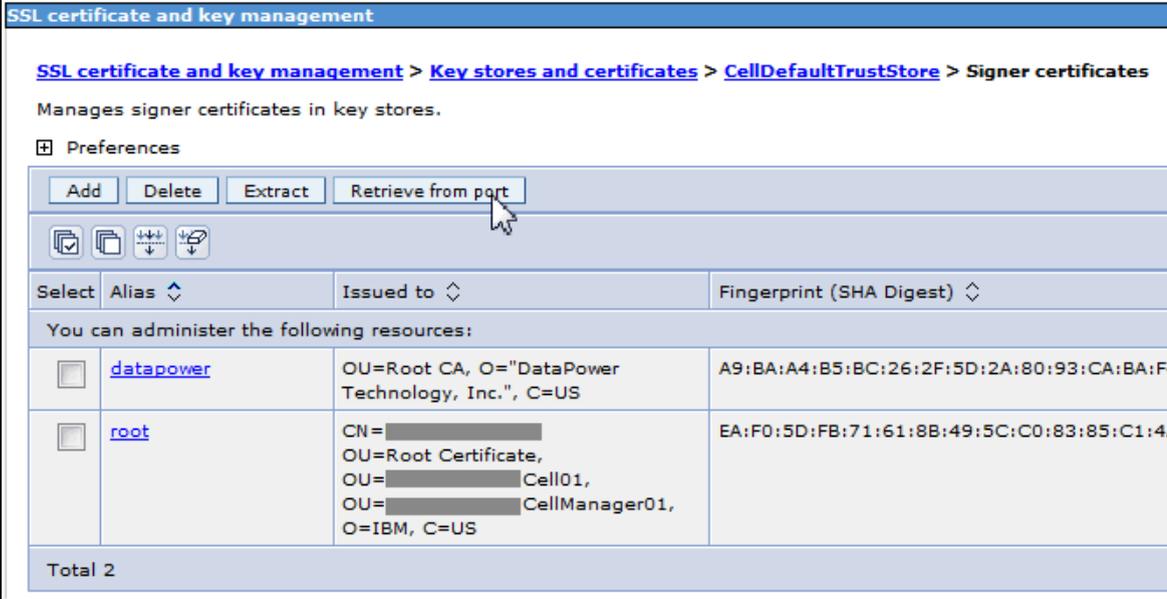
```
# 3) Uncomment the directives up through the end
#
LoadModule ibm_ssl_module modules/mod_ibm_ssl.so
Listen 443
<VirtualHost *:443>
SSLEnable
SSLProtocolDisable SSLv2
</VirtualHost>
KeyFile /opt/IBM/HTTPServer/bin/IHSkey.kdb
SSLStashFile /opt/IBM/HTTPServer/bin/IHSkey.sth
SSLDisable
# End of example SSL configuration
```

Figure 99. SSL configuration example

Add certificates to the WebSphere truststore

Add SSL certificates to WebSphere truststore

- ___ 1. In the SSL certificate and key management, click **Retrieve from port**.



The screenshot shows the 'SSL certificate and key management' console. The breadcrumb navigation is: [SSL certificate and key management](#) > [Key stores and certificates](#) > [CellDefaultTrustStore](#) > [Signer certificates](#). Below the breadcrumb, it says 'Manages signer certificates in key stores.' There is a 'Preferences' section with a plus icon. A toolbar contains buttons for 'Add', 'Delete', 'Extract', and 'Retrieve from port', with a mouse cursor pointing to the last one. Below the toolbar are icons for selection, copy, paste, and refresh. A table lists certificates with columns for 'Select', 'Alias', 'Issued to', and 'Fingerprint (SHA Digest)'. The table contains two entries: 'datapower' and 'root'. A 'Total 2' summary is at the bottom.

Select	Alias	Issued to	Fingerprint (SHA Digest)
You can administer the following resources:			
<input type="checkbox"/>	datapower	OU=Root CA, O="DataPower Technology, Inc.", C=US	A9:BA:A4:B5:BC:26:2F:5D:2A:80:93:CA:BA:F4
<input type="checkbox"/>	root	CN = ██████████ OU=Root Certificate, OU=██████████ Cell01, OU=██████████ CellManager01, O=IBM, C=US	EA:F0:5D:FB:71:61:8B:49:5C:C0:83:85:C1:47
Total 2			

Figure 100. the SSL certificate and key management

- ___ 2. Enter the host and click **Retrieve signer information**.

SSL certificate and key management

[SSL certificate and key management](#) > [Key stores and certificates](#) > [CellD](#)

Makes a test connection to a Secure Sockets Layer (SSL) port and retrieves

General Properties

* Host
<Host>

* Port
443

SSL configuration for outbound connection
CellDefaultSSLSettings ▼

* Alias
IHS

Retrieve signer information

Apply OK Reset Cancel

Figure 101. SSL certificate and key management

___ 3. Enter the retrieved signer information and click **OK**.

[SSL certificate and key management](#) > [Key stores and certificates](#) > [Cell](#)

Makes a test connection to a Secure Sockets Layer (SSL) port and retrieve:

General Properties

* Host

* Port

SSL configuration for outbound connection

* Alias

Retrieved signer information

Serial number

Issued to

Issued by

Fingerprint (SHA digest)

Validity period

Figure 102. Retrieved signer information

4. Next, click **ih**.

Select	Alias	Issued to	Fingerprint (SHA Digest)
You can administer the following resources:			
<input type="checkbox"/>	datapower	OU=Root CA, O="DataPower Technology, Inc.", C=US	A9:BA:A4:B5:BC:26:2F:5D:2A:80:93:CA:BA:F4:31:05:F2:54:14:17
<input type="checkbox"/>	ih	CN=	6C:C6:1C:2C:28:96:C3:A8:BA:F6:85:53:00:42:4D:CF:AE:A1:65:82
<input type="checkbox"/>	root	CN=, OU=, OU=Cell01, OU=CellManager01, O=IBM, C=US	EA:F0:5D:FB:71:61:8B:49:5C:C0:83:85:C1:4A:AB:75:9E:0D:D6:6C
Total 3			

Figure 103. Resources administration

5. Fully synchronize to both nodes. Click **Full Resynchronize**.

Select	Name	Host Name	Version	Discovery Protocol	Status
You can administer the following resources:					
<input type="checkbox"/>	IHS	<Host name>	Not applicable	TCP	
	<Resource> CellManager01	<Host name>	ND 7.0.0.21	TCP	↔
<input checked="" type="checkbox"/>	<Resource> Node01	<Host name>	ND 7.0.0.21	TCP	↔
<input checked="" type="checkbox"/>	<Resource> Node01	<Host name>	ND 7.0.0.21	TCP	↔
Total 4					

Figure 104. Fully resynchronizing to both nodes

Configure WebSphere Application Server security

Configure the federated repository

___ 1. Go to Security > Global security.



Figure 105. Global security

___ 2. Select **Enable application security**.



Figure 106. Application security enablement

___ 3. Click **Configure...**

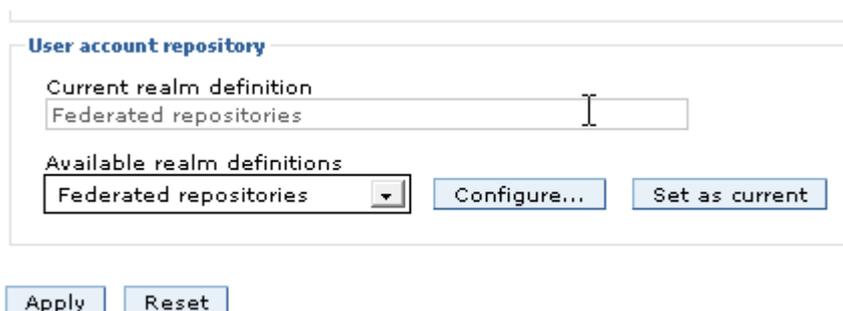


Figure 107. User account repository

4. In the Related Items section, click **Manage repositories**.

Ignore case for authorization

Repositories in the realm:

Select	Base Entry	Repository Identifier	Repos
You can administer the following resources:			
<input type="checkbox"/>	o=defaultWIMFileBasedRealm	InternalFileRepository	File

Additional Properties

- [Property extension repository](#)
- [Entry mapping repository](#)
- [Supported entity types](#)

Related Items

- [Manage repositories](#)
- [Trusted authentication realms - int](#)

Figure 108. Related items > Manage repositories

5. Click **Add**.

[Global security](#) > [Federated repositories](#) > **Manage repositories**

Repositories that are configured in the system are listed in the following table:

⊕ Preferences

Select	Repository Identifier
You can administer the following resources:	
	InternalFileRepository
Total 1	

Figure 109. Global security > Federated repositories > Manage repositories

6. In the General Properties window, enter a repository identifier, the directory type, a primary host name, and port, and click **Add**.

General Properties

Repository identifier
 <Repository identifier>

LDAP server

* Directory type
 Microsoft Windows Active Directory

* Primary host name
 <Primary host name>

Port
 389

Failover server used when primary is not available:

Select	Failover Host Name	Port
	None	

Add

Support referrals to other LDAP servers
 ignore

Security

Bind distinguished name
 <Bind distinguished name>

Bind password

Login properties
 uid

LDAP attribute for Kerberos principal name
 userprincipalname

Certificate mapping
 EXACT_DN

Certificate filter

Require SSL communications

Centrally managed
 Manage endpoint security configurations

Use specific SSL alias
 CellDefaultSSLSettings

Figure 110. General properties window

7. Next, click **Add Base entry to Realm...**

Global security

Global security > Federated repositories

By federating repositories, identities stored in multiple repositories can be managed in a single, virtual realm. The realm can consist of a built-in repository that is built into the system, in one or more external repositories, or in both the built-in repository and one or more external repositories.

General Properties

* Realm name

* Primary administrative user name

Server user identity

Automatically generated server identity

Server identity that is stored in the repository

Server user ID or administrative user on a Version 6.0.x node

Password

Ignore case for authorization

Repositories in the realm:

Select	Base Entry	Repository Identifier	Repository Type
You can administer the following resources:			
<input type="checkbox"/>	 <Resource> <Resource>	 <Repository identifier>	LDAP:AD
<input type="checkbox"/>	o=defaultWIMFileBasedRealm	InternalFileRepository	File
Total 2			

Figure 111. Adding base entry to the realm

8. Restart all DM and Nodes.

Set WebSphere Application Server admin as a user in the LDAP

- ___ 1. Log in to WebSphere Application Server console as WebSphere Application Server administrator.
- ___ 2. Expand the section of **Users and Groups**, then **Administrative user roles**.
- ___ 3. Click **Add** to add a role.



Figure 112. Administrative user roles: Adding a role

- ___ 4. Press **Shift** to select both Admin Security Manager and Administrator.



Figure 113. Selecting the roles

- ___ 5. Search for a user in the LDAP, select it and map it to the role by clicking the right arrow.

Search and Select Users

Decide how many results to display, enter a search string (use * for wildcard) and add them to the Mapped to role list. Users which have already been mapped are shown in the Mapped to role list.

Search string

Maximum results to display

Available

- Aamir_000_000
- Aamir_002_000
- Aamir_003_000
- Aamir_004_000
- Aamir_005_000
- Aamir_006_000
- Aamir_009_000
- Aamir_010_000
- Aamir_011_000
- Aamir_012_000

Mapped to role

Figure 114. Search and Select Users

- ___ 6. Click OK and Save. Now this user is listed here.

Select	User	Role(s)
<input type="checkbox"/>	Aamir_000_000	Administrator, Admin Security Manager
	wasadmin	Primary administrative user name

Figure 115. New user is added to the list

- ___ 7. Expand **Security** and select **Global security**.



Figure 116. Security > Global security

___ 8. Click **Configure...**



Figure 117. User account repository

___ 9. Change the Primary administrative user name to the LDAP user you mapped as Administrator.

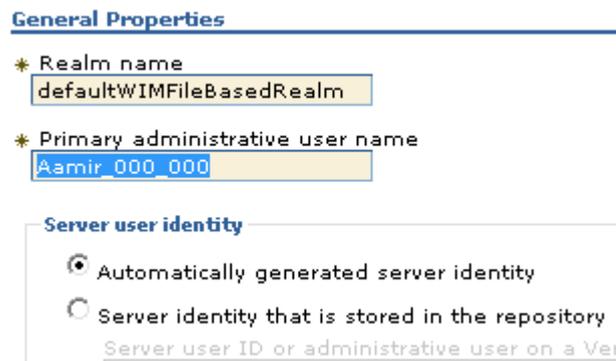


Figure 118. General Properties: Primary administrative user name

___ 10. Click **OK** and **Save**.

___ 11. Fully Synchronize to all nodes and restart the whole cell.

Side by Side DB Migration

Create 301 DB on target server

__ 1. Create Oracle Instance on target 4.0 DB server. Run the following command:

```
oracle@<host name>:/mnt/Wizards> netca
```

Figure 119. Target 4.0 DB server

__ 2. The Oracle Net Configuration Assistant opens. On the Welcome screen, click **Next**.

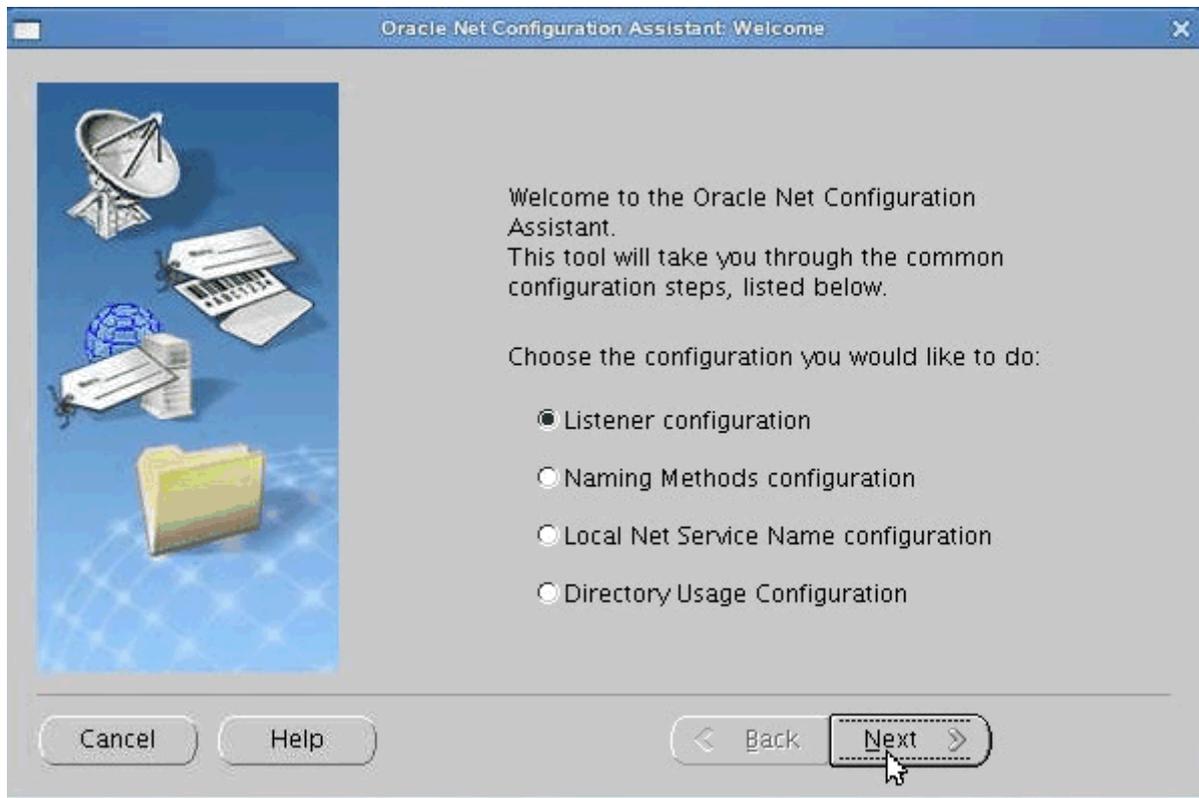


Figure 120. Oracle Net Configuration Assistant: Welcome screen

3. On the Listener Configuration screen, select **Add** and click **Next**.



Figure 121. Oracle Net Configuration Assistant: Listener Configuration screen

4. Enter a listener name and click **Next**.

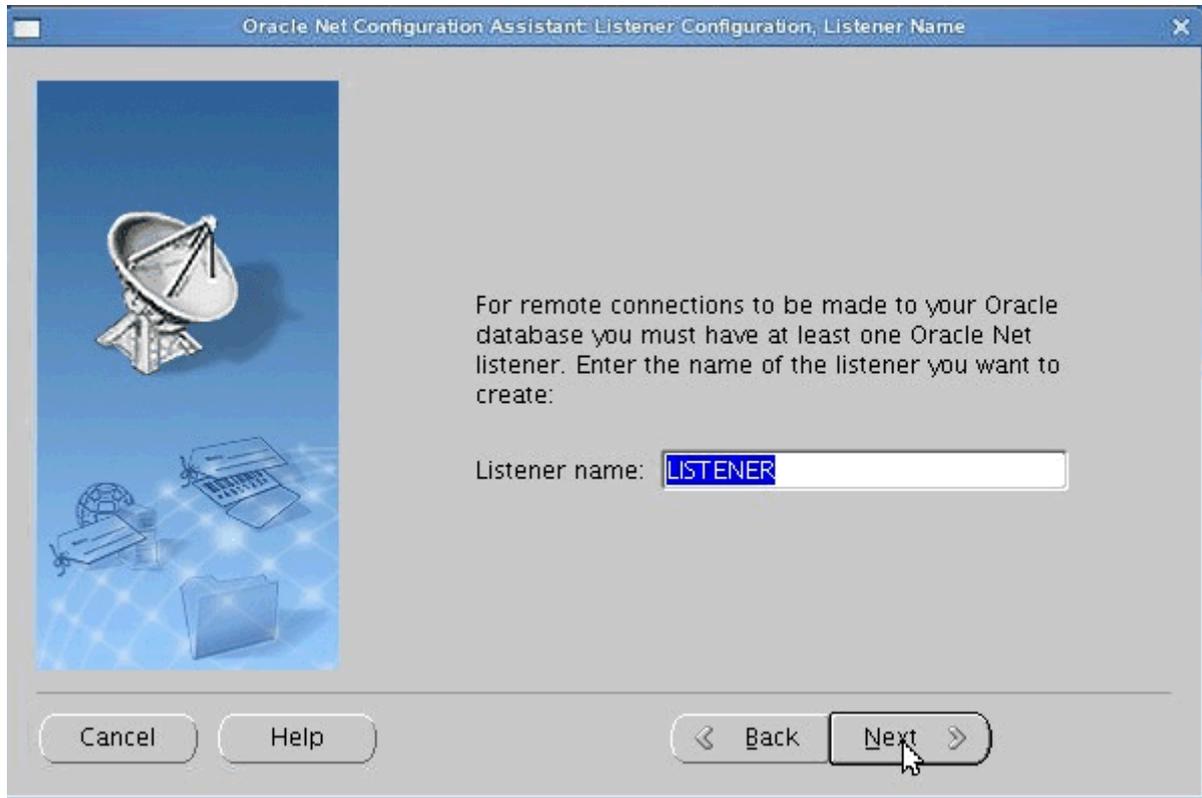


Figure 122. Oracle Net Configuration Assistant: Listener Configuration screen: Entering a listener name

5. Select the protocols that you want to configure for your listener and click **Next**.

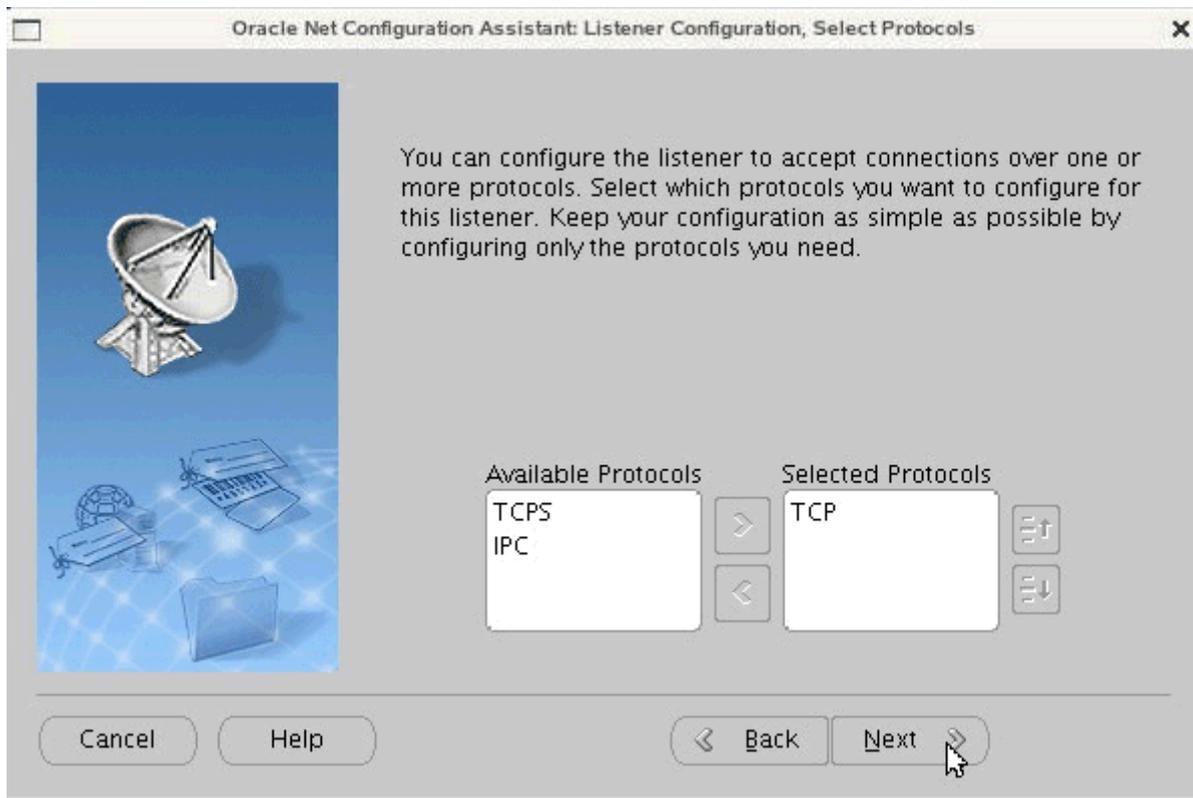


Figure 123. Oracle Net Configuration Assistant: Listener Configuration screen: Select Protocols

- ___ 6. Select the port number that other software on your computer should not use, and click **Next**.

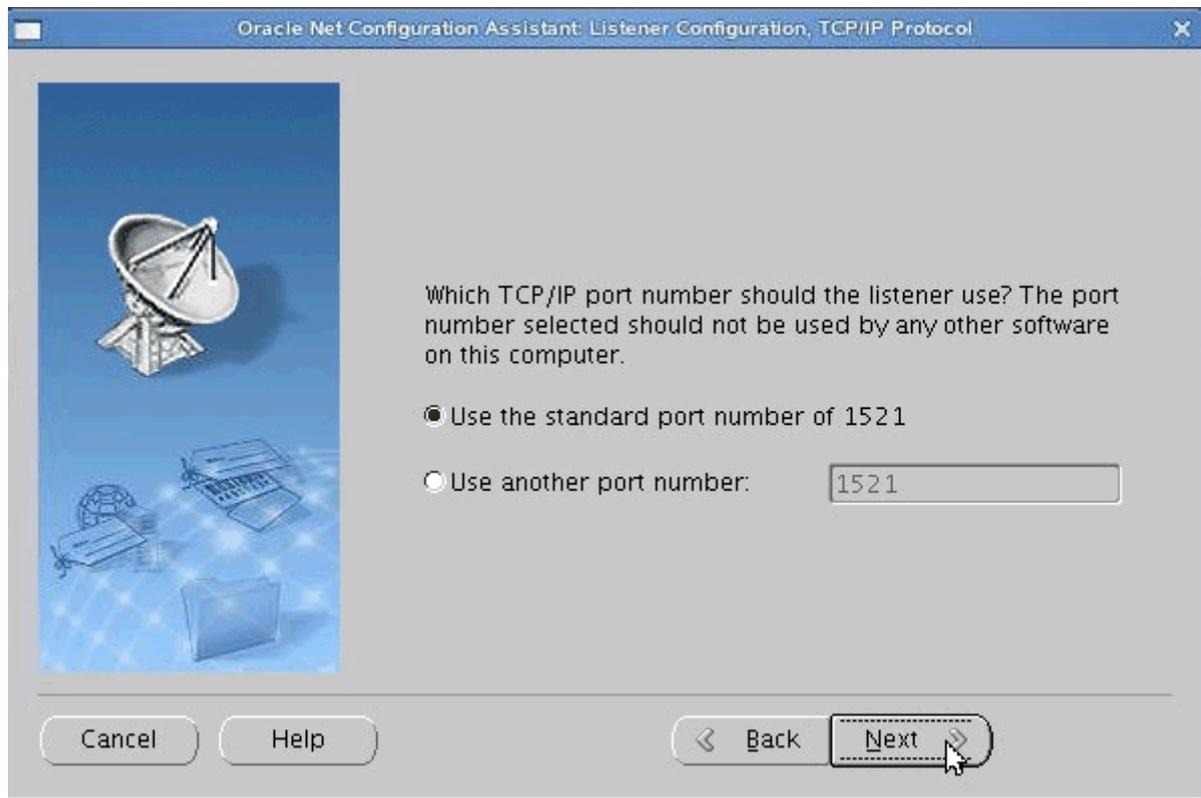


Figure 124. Oracle Net Configuration Assistant: Listener Configuration screen: TCP/IP Protocol

___ 7. When prompted to configure further listeners, select No and click **Next**.

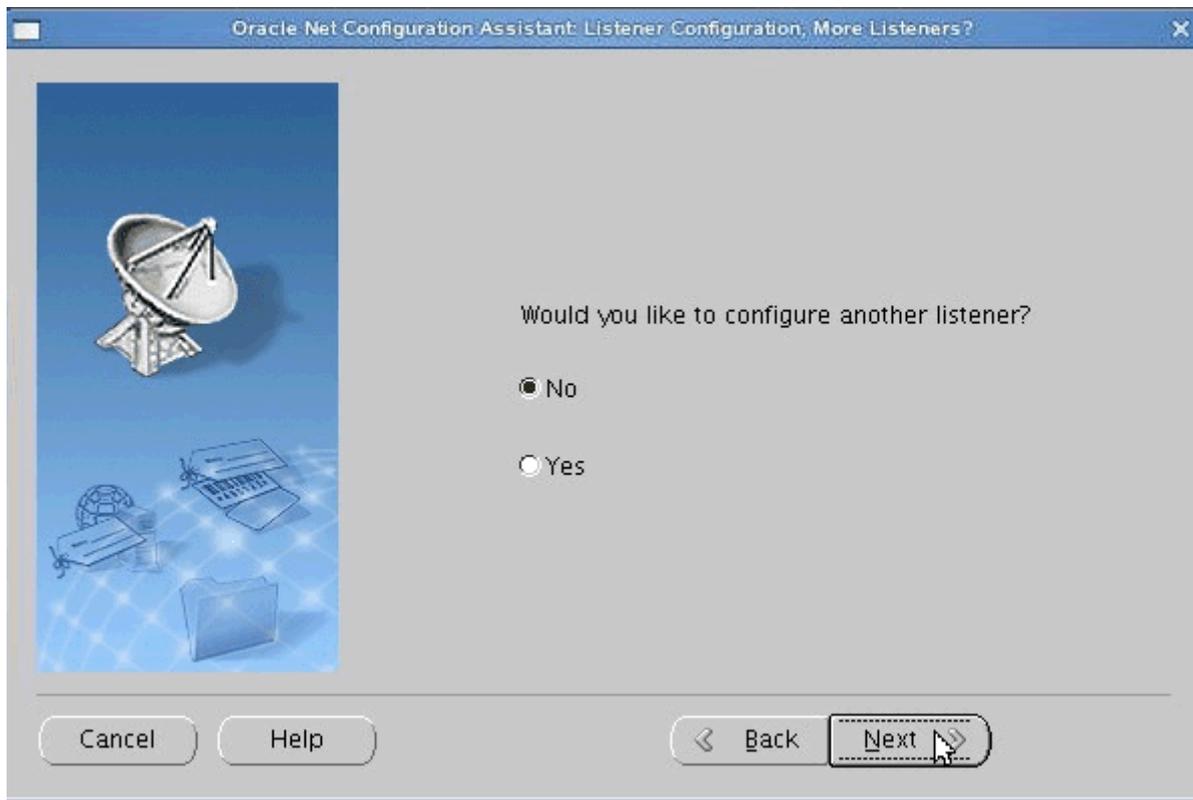


Figure 125. Oracle Net Configuration Assistant: Listener Configuration screen: More Listeners?

8. Click **Finish** to exit.

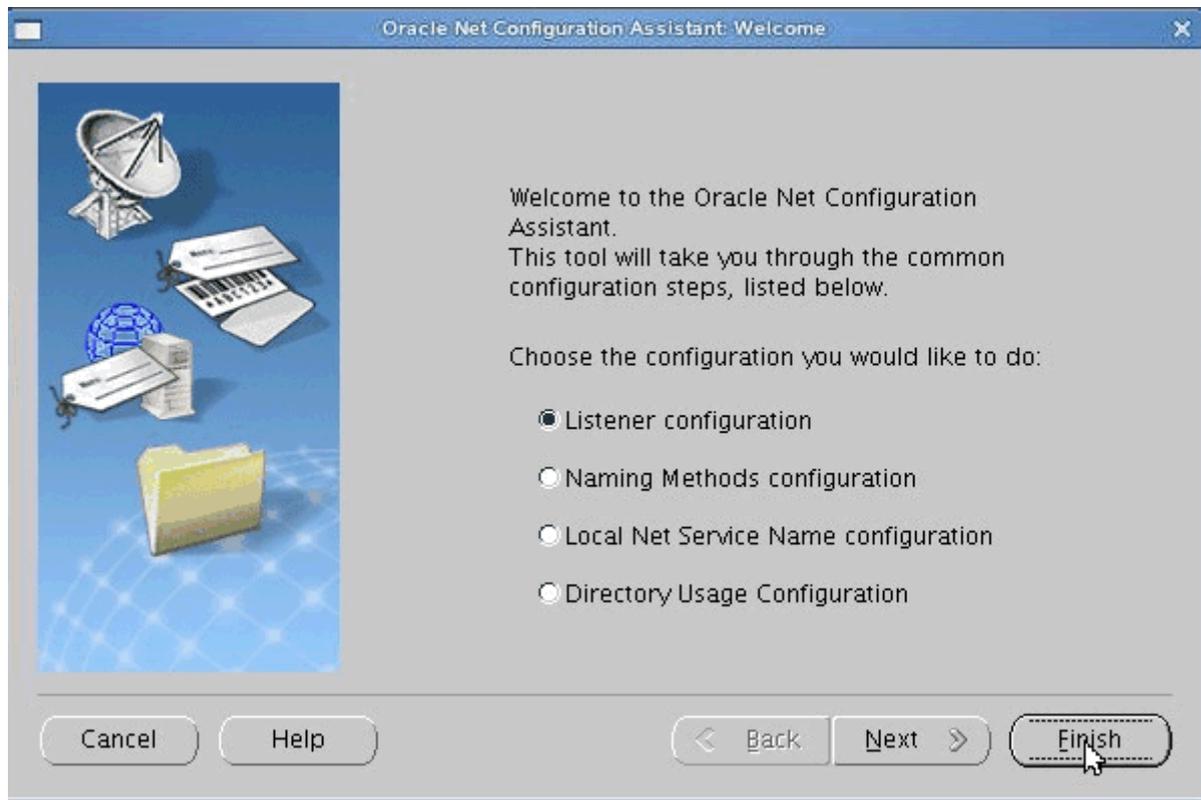


Figure 126. Oracle Net Configuration Assistant: Welcome screen

Now you must configure the Oracle database. Follow these steps:

1. Run the following command to open the Database Configuration Assistant.

```
oracle@ <host name> :/mnt/Wizards> dbca
```

Figure 127. Target 4.0 DB server

2. In the welcome screen of the Database Configuration Assistant, click **Next**.

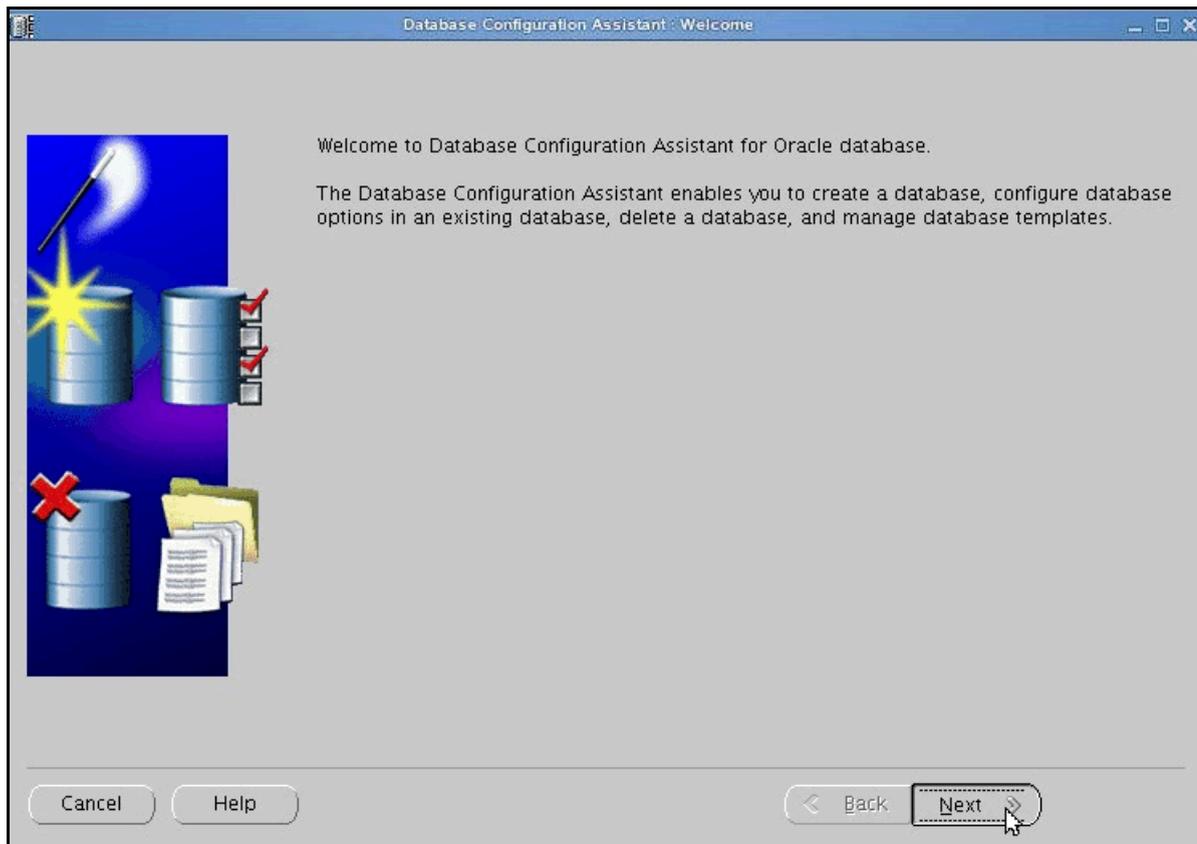


Figure 128. Database Configuration Assistant: Welcome

3. In the Operations screen, select **Create a Database** and click **Next**.

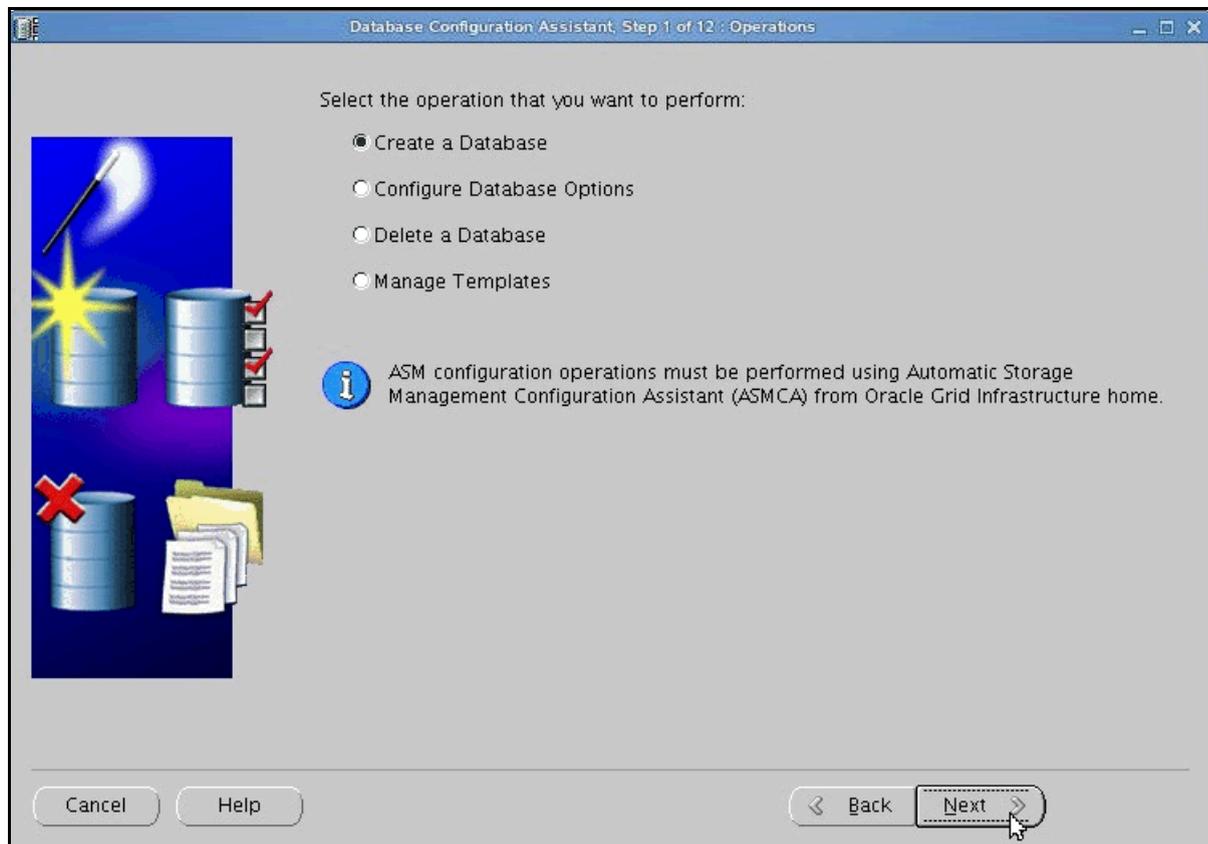


Figure 129. Database Configuration Assistant: Operations

4. In the Database Templates screen, select **General Purpose or Transaction Processing** and click **Next**.

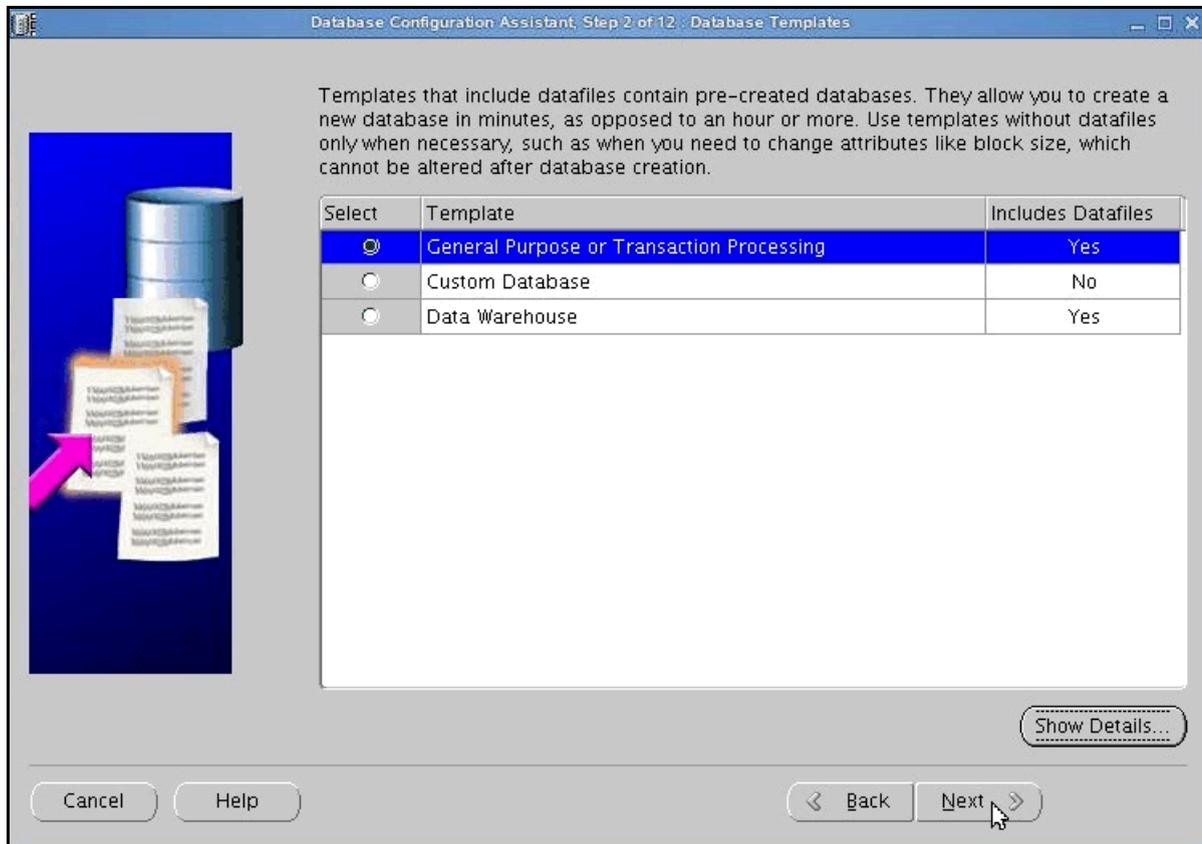


Figure 130. Database Configuration Assistant: Database Templates

5. In the Database Identification screen, enter a global database name and an Oracle System Identifier (SID) and click **Next**.

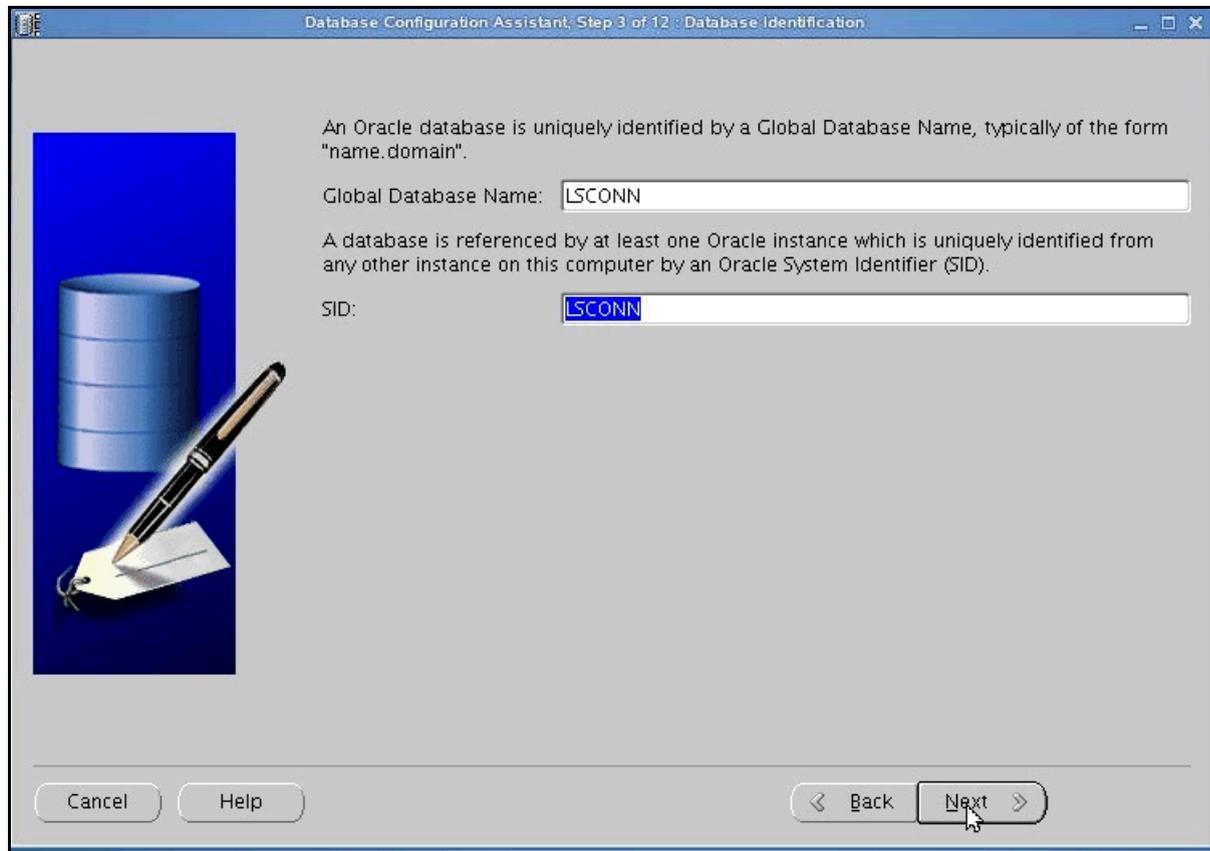


Figure 131. Database Configuration Assistant: Database Identification Database Configuration Assistant: Database Identification

6. In the Management Options screen, Enterprise Manager tab, select **Configure Enterprise Manager** and Configure Database Control for local management, and click **Next**.

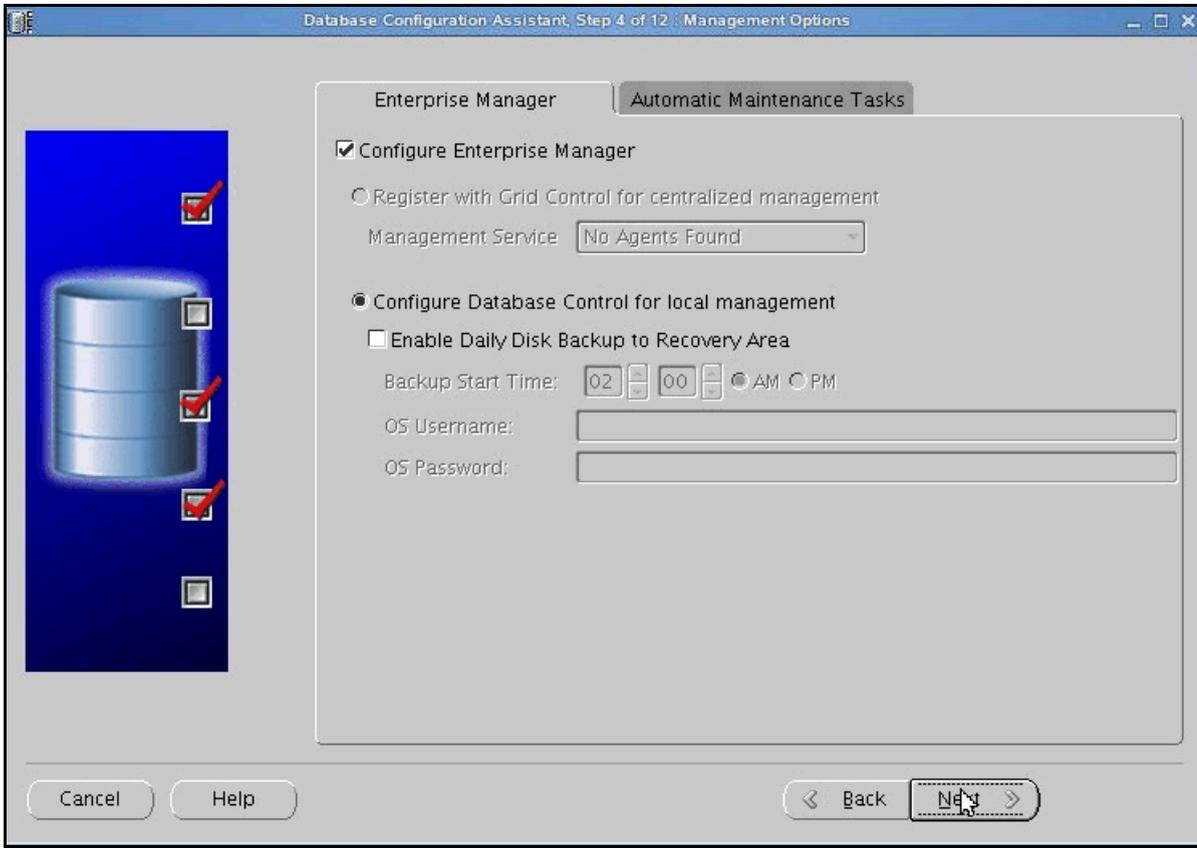


Figure 132. Database Configuration Assistant: Management Options

7. In the Database Credentials screen, enter and confirm a password and click **Next**.

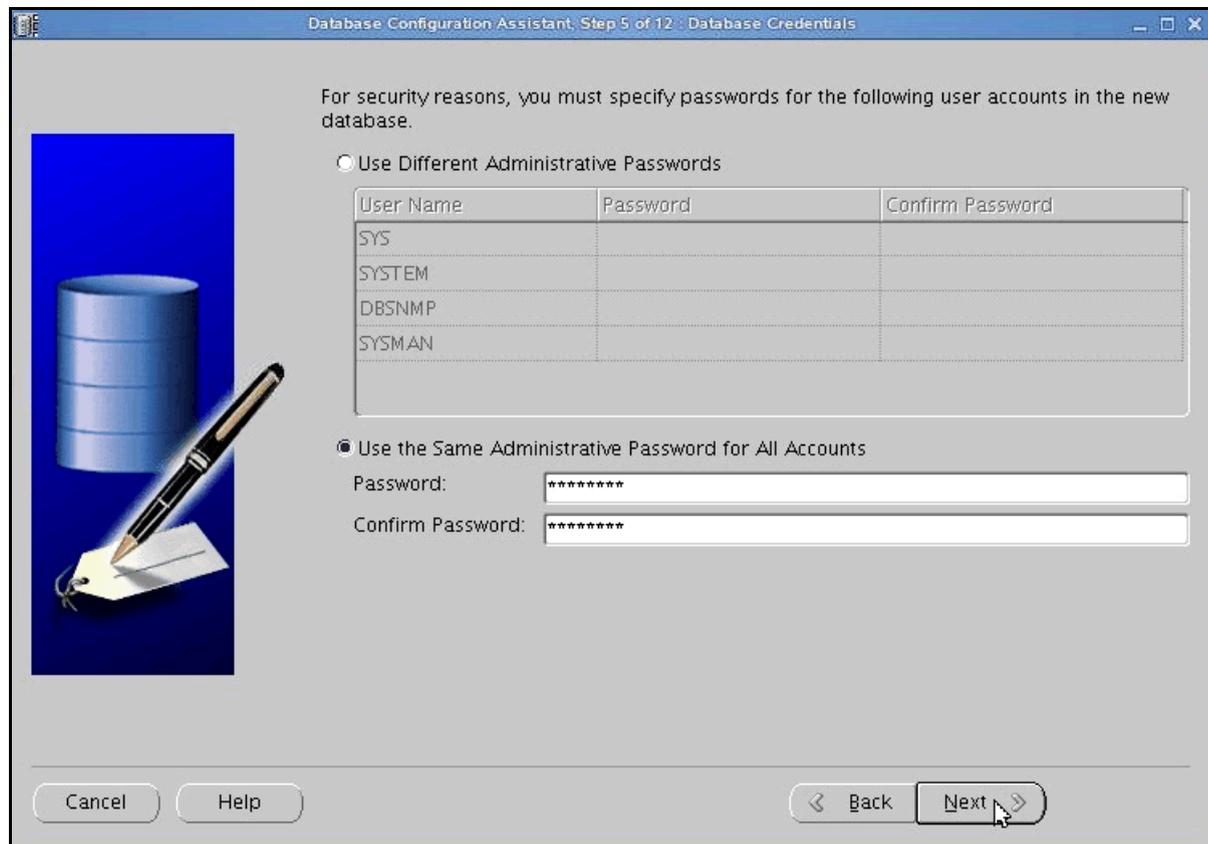


Figure 133. Database Configuration Assistant: Database Credentials

8. If the password does not satisfy Oracle recommended password complexity policy, click Yes in the warning message window to continue.

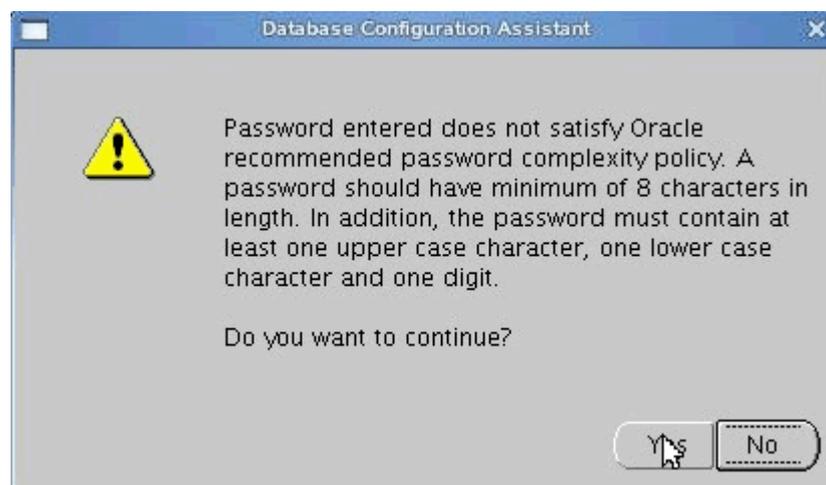


Figure 134. Database Configuration Assistant: Warning message

9. Specify the storage type and the locations for the database files and click **Next**.

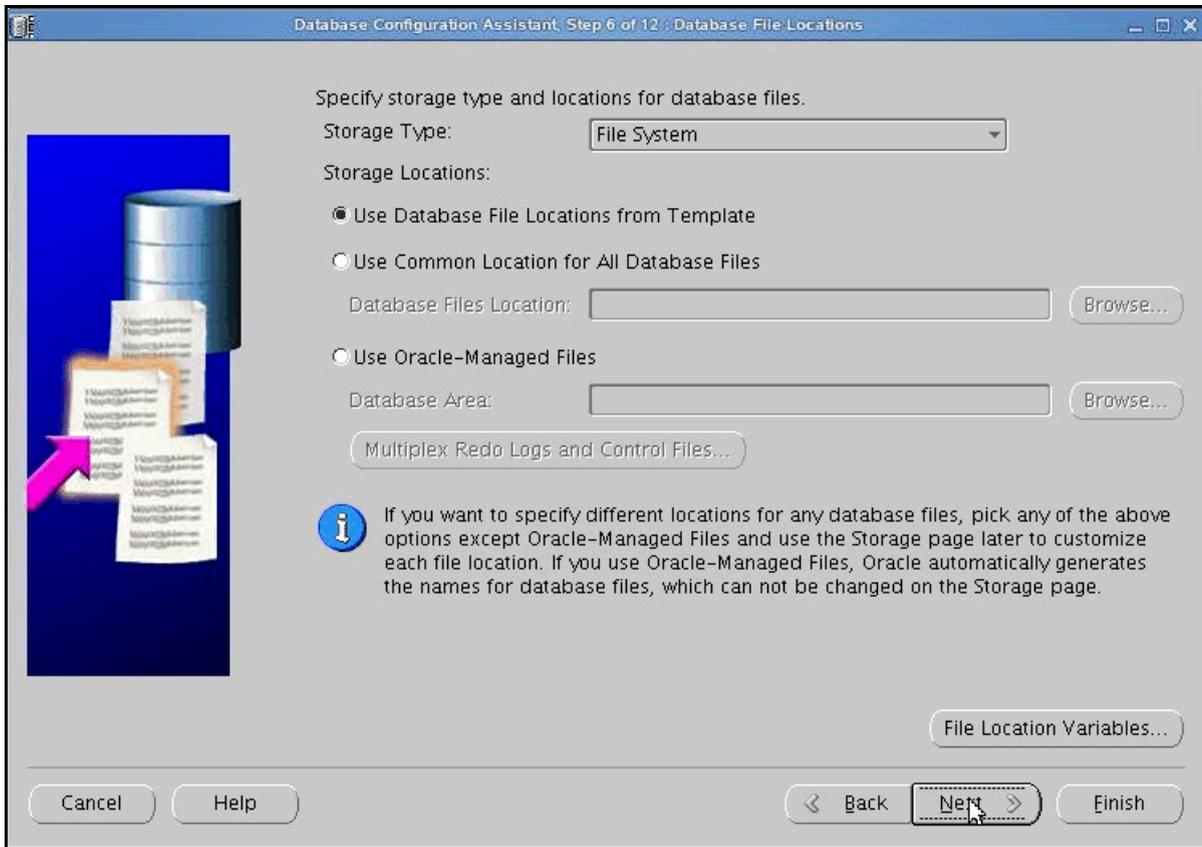


Figure 135. Database Configuration Assistant: Database File Locations

10. Choose the recovery options for the database and click **Next**.

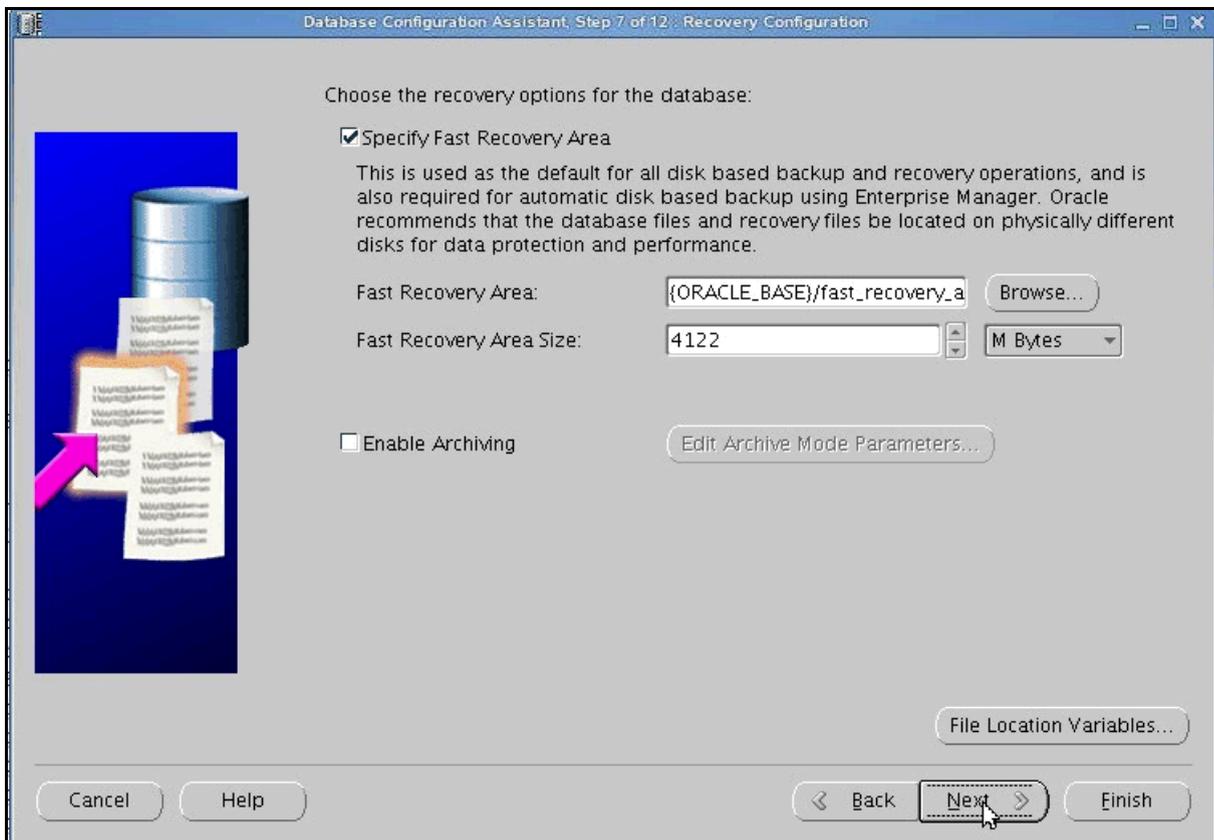


Figure 136. Database Configuration Assistant: Recovery Configuration

11. In the Initialization Parameters screen, Character Sets tab, select **Use Unicode (AL32UTF8)** and click **Next**.

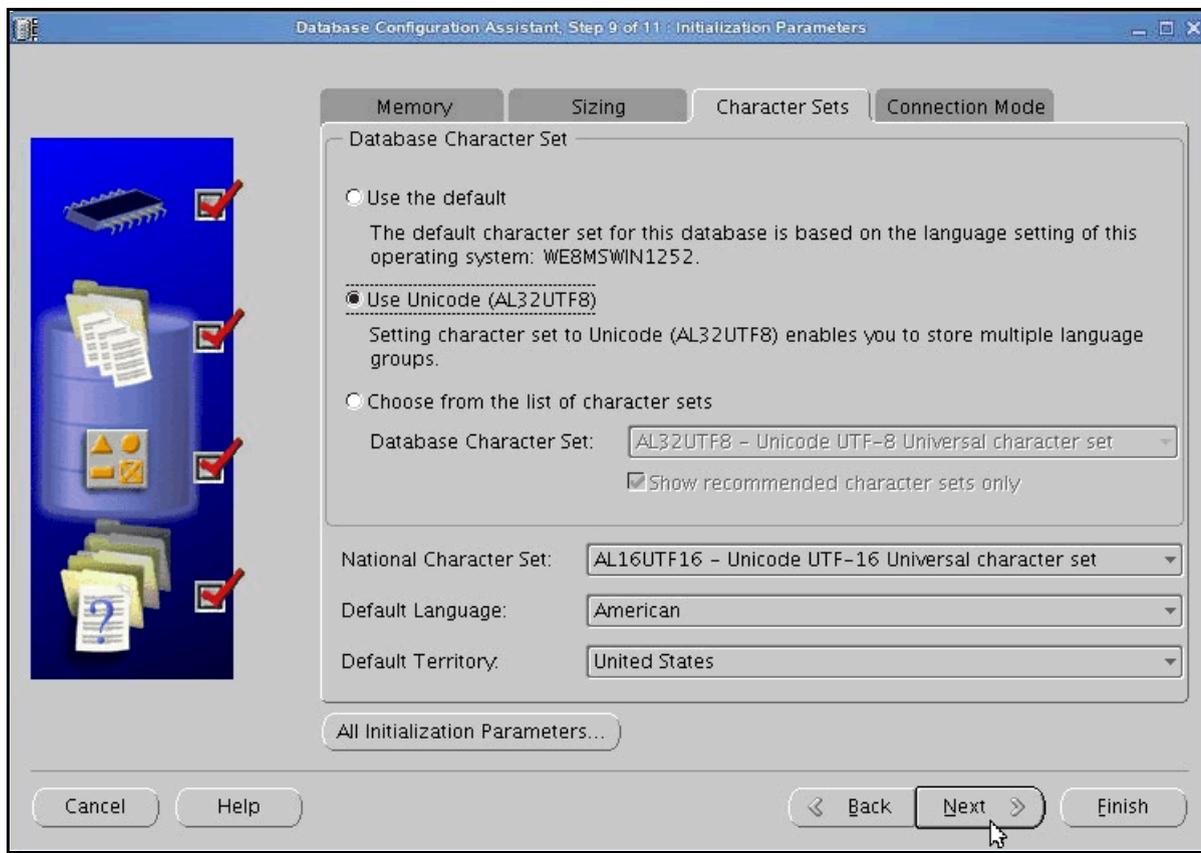


Figure 137. Database Configuration Assistant: Initialization Parameters

12. The Database Storage screen is displayed. Click **Next**.

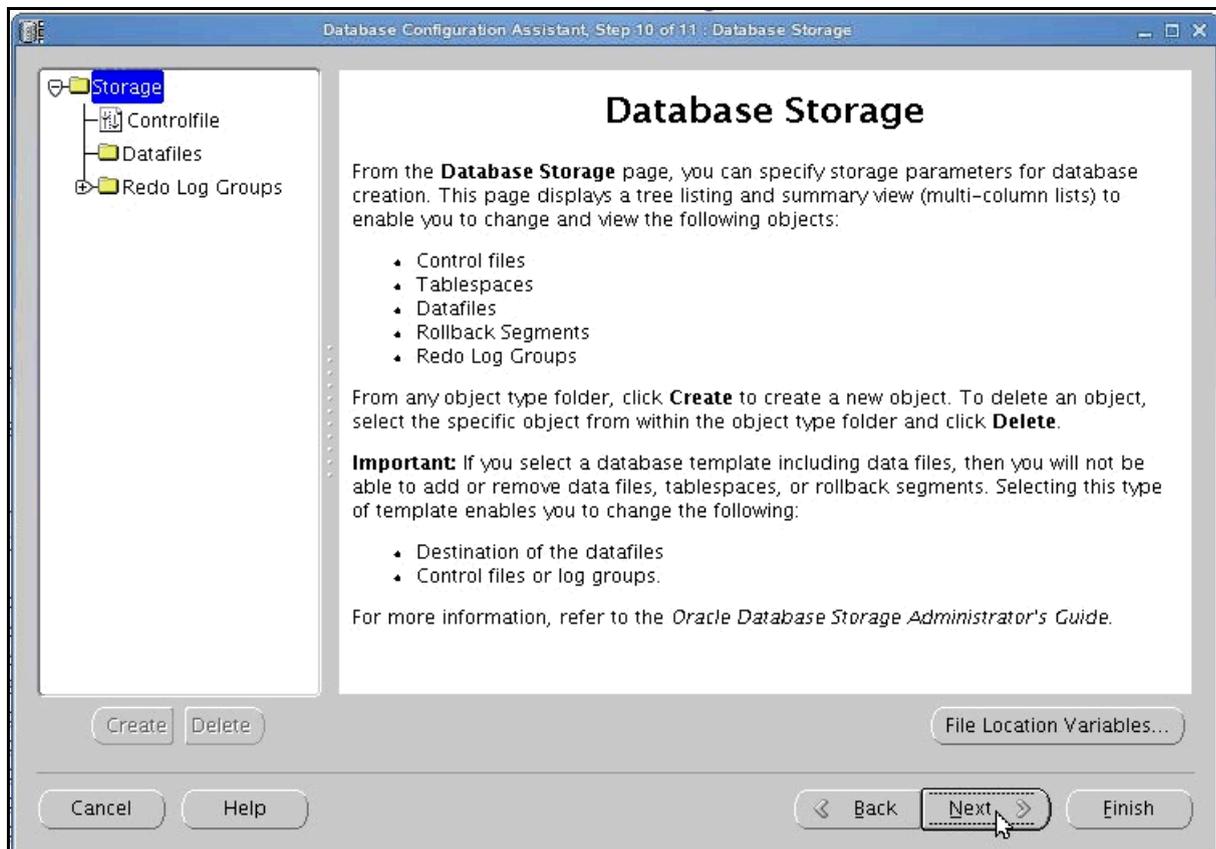


Figure 138. Database Configuration Assistant: Database Storage

13. Select **Create Database** as creation option and click **Finish**.

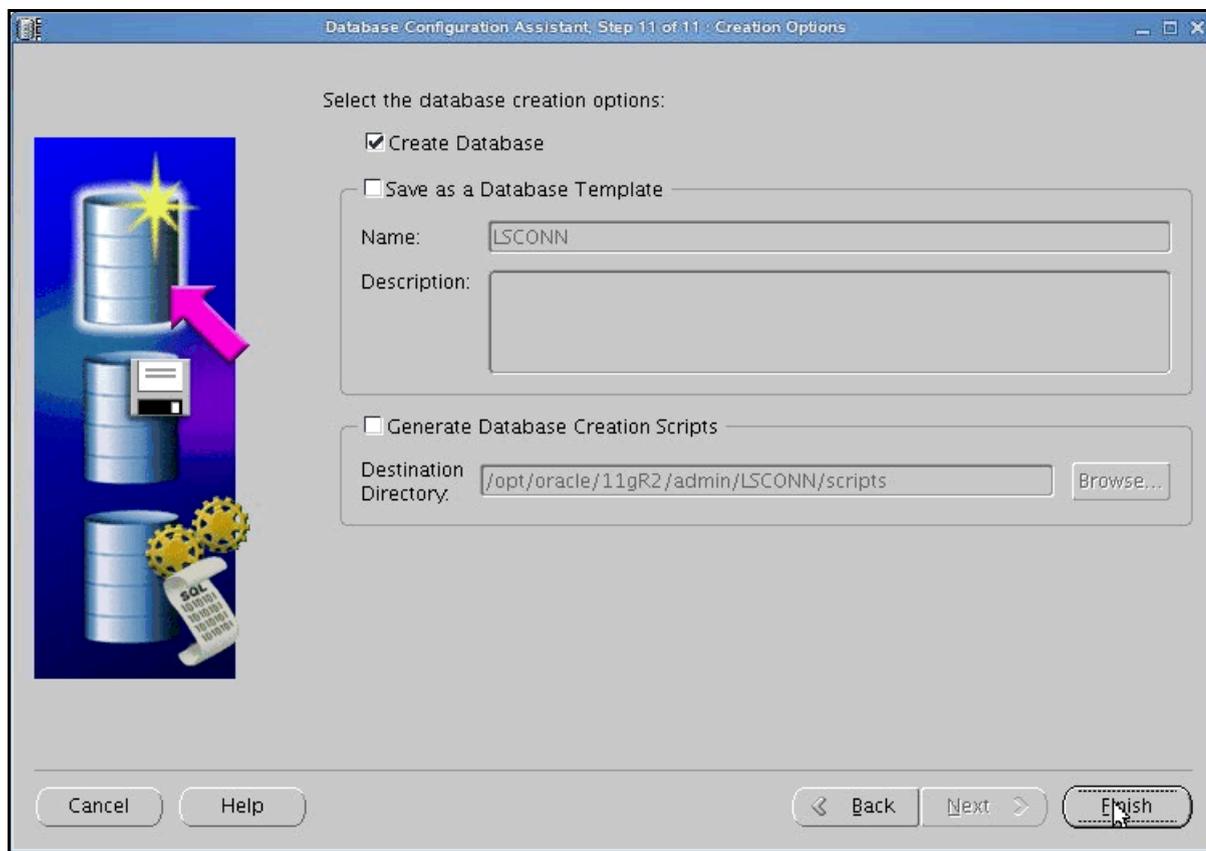


Figure 139. Database Configuration Assistant: Creation Options

14. A Create Database summary is displayed. Click **OK** to confirm.

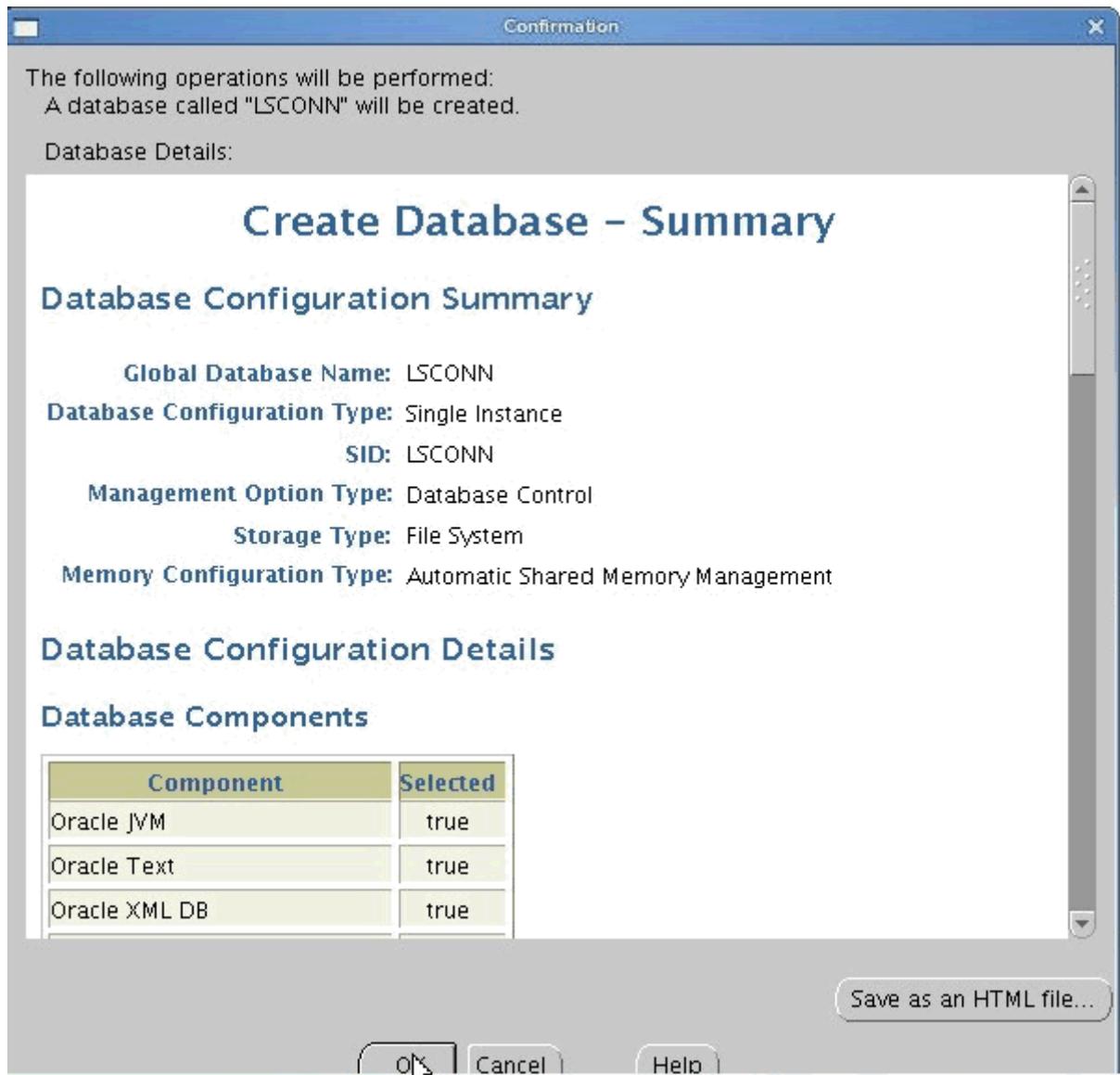


Figure 140. Database creation summary: Confirmation

The database creation begins.

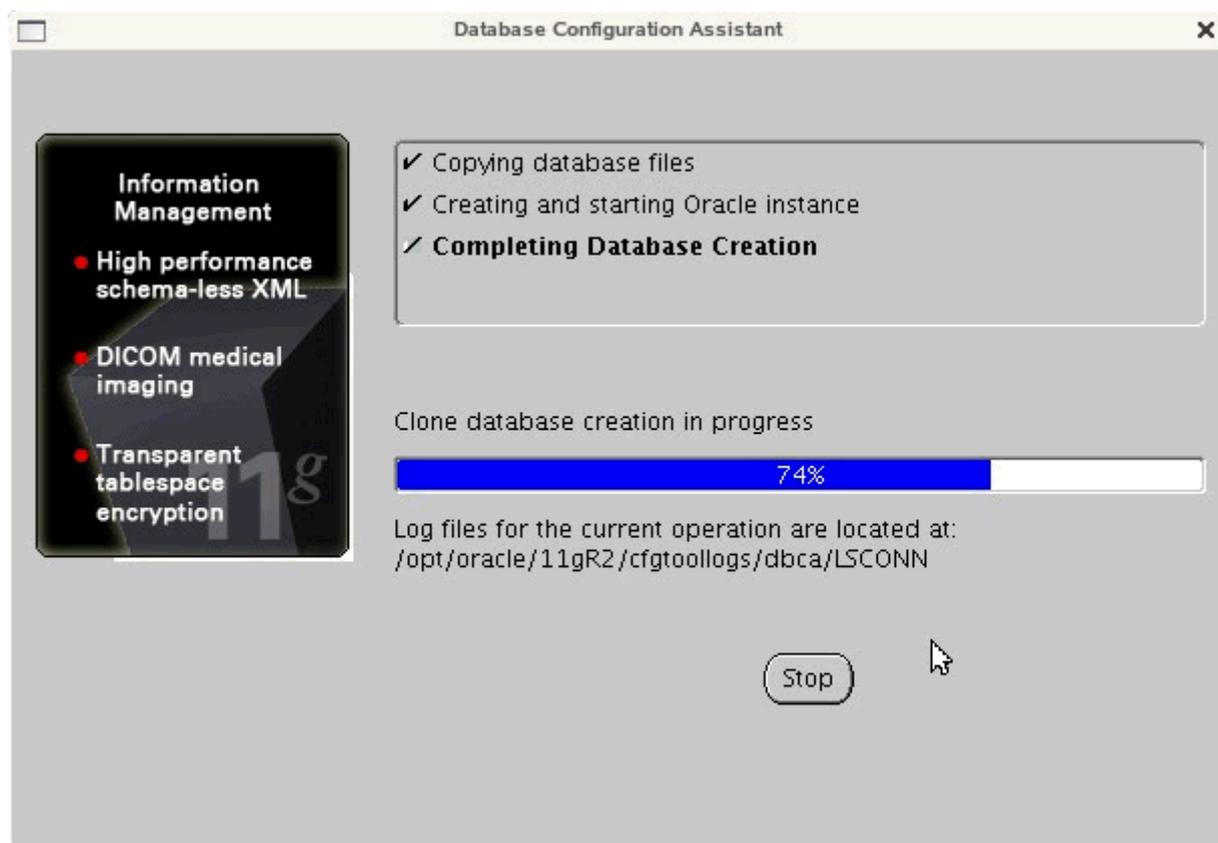


Figure 141. Database Configuration Assistant: Database creation in progress

___ 15. The database creation completes. Click **Finish**.

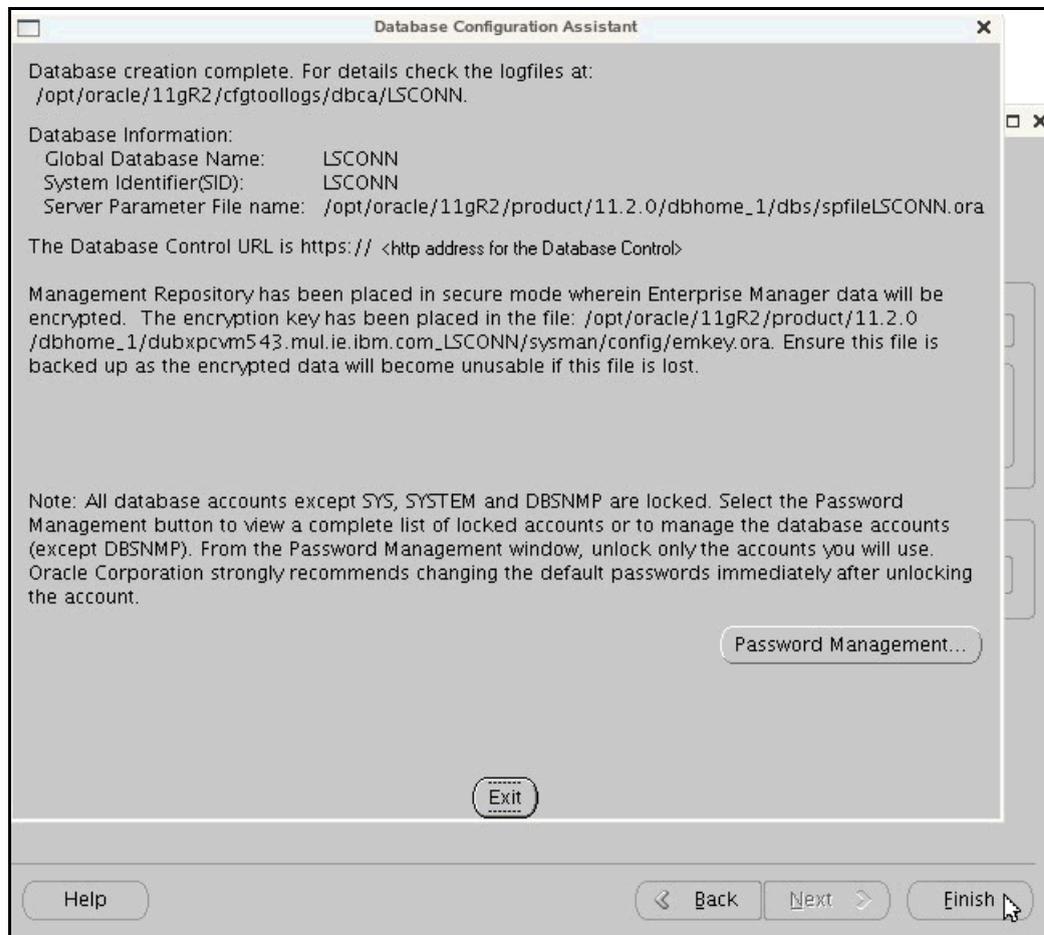


Figure 142. Database Configuration Assistant: Database creation completion

Create 301 database on the target 4.0 DB server by using Database wizard for Lotus Connections 3.0.1

1. Run the following command to open the Database wizard for Lotus Connections 3.0.1.

```
oracle@ <host name> /ICbuild/301/Wizards> ./dbWizard30.sh
```

Figure 143. Command to open the Database wizard for Lotus Connections 3.0.1

2. In the welcome screen of the Database wizard for Lotus Connections 3.0.1, click **Next** to continue.

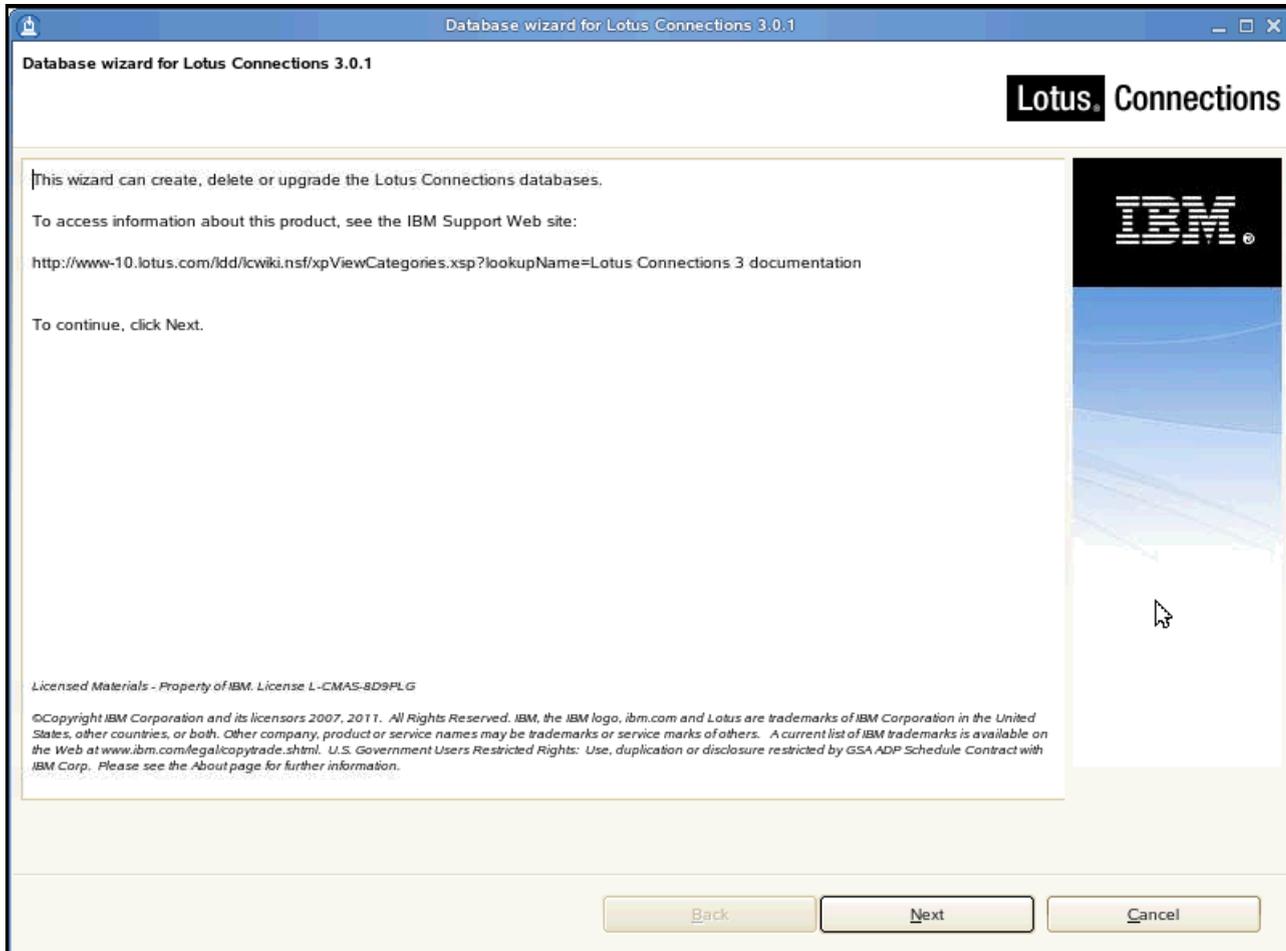


Figure 144. Database wizard for Lotus Connections 3.0.1: Welcome screen

3. In the Database task selection screen, select **Create** and click **Next**.

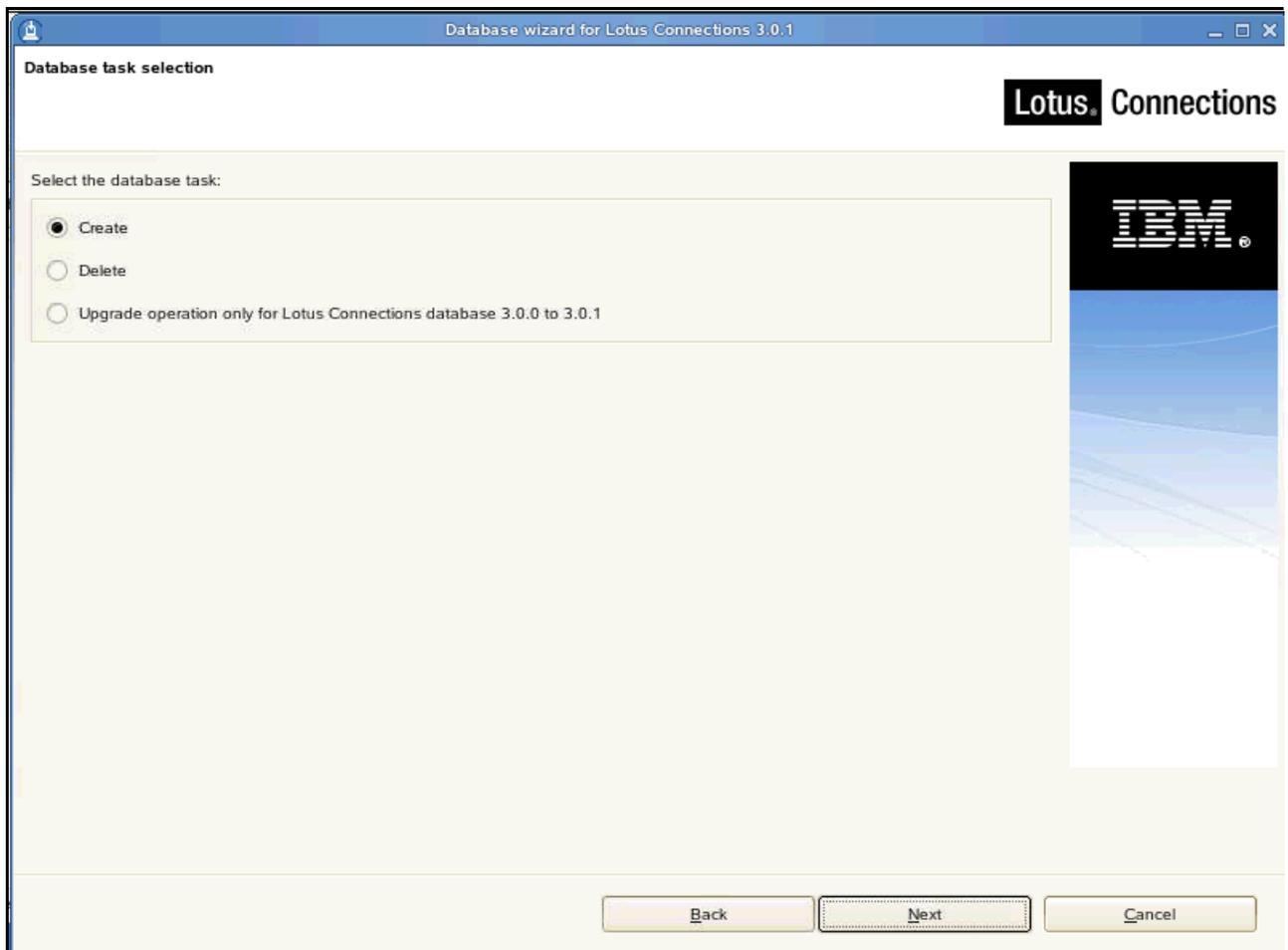


Figure 145. Database wizard for Lotus Connections 3.0.1: Database task selection screen

4. In the Database selection screen, select **Oracle Enterprise Edition** and click **Next**.

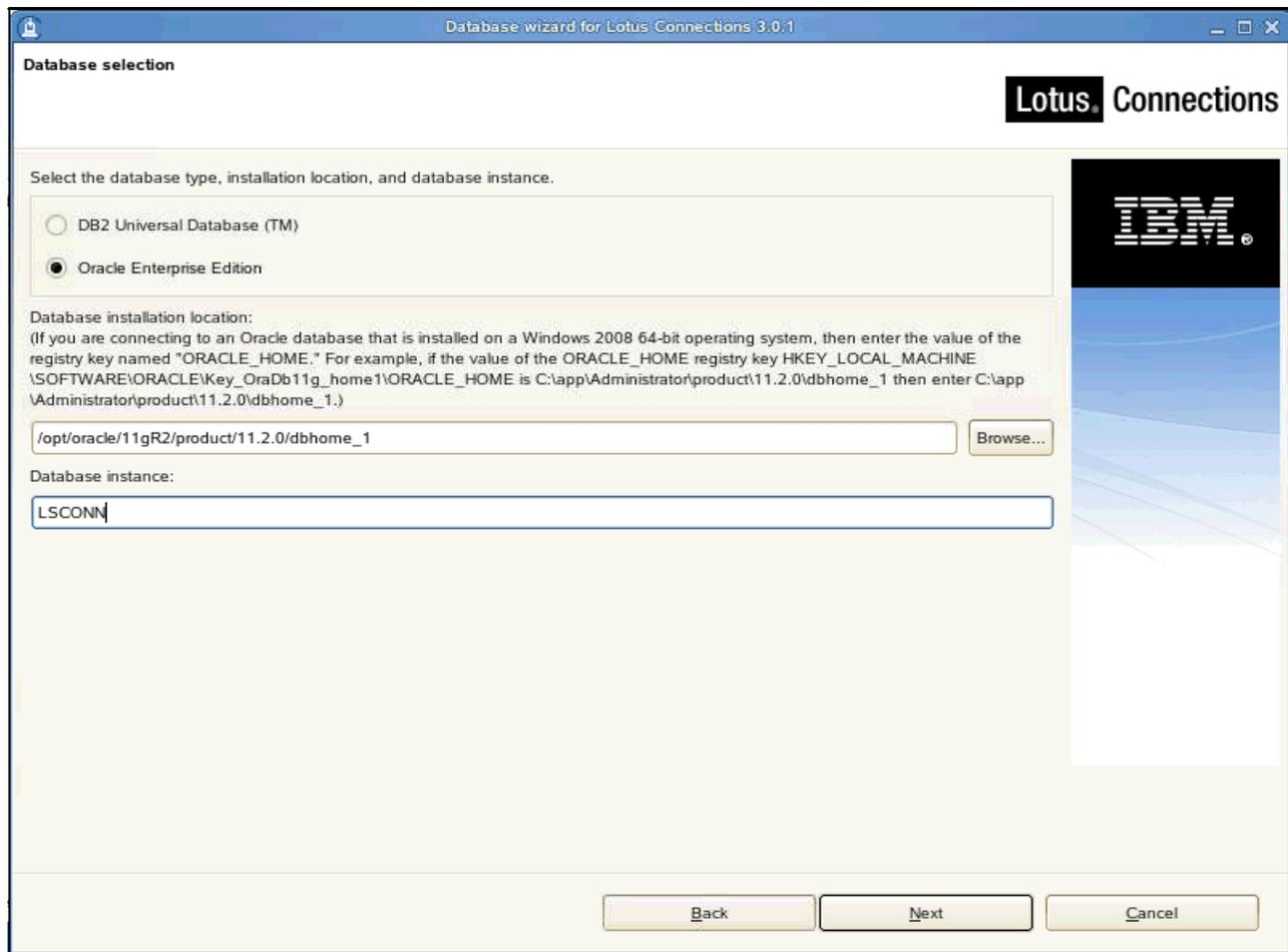


Figure 146. Database wizard for Lotus Connections 3.0.1: Database selection screen

5. In the Applications selection screen, select all options available and click **Next**.

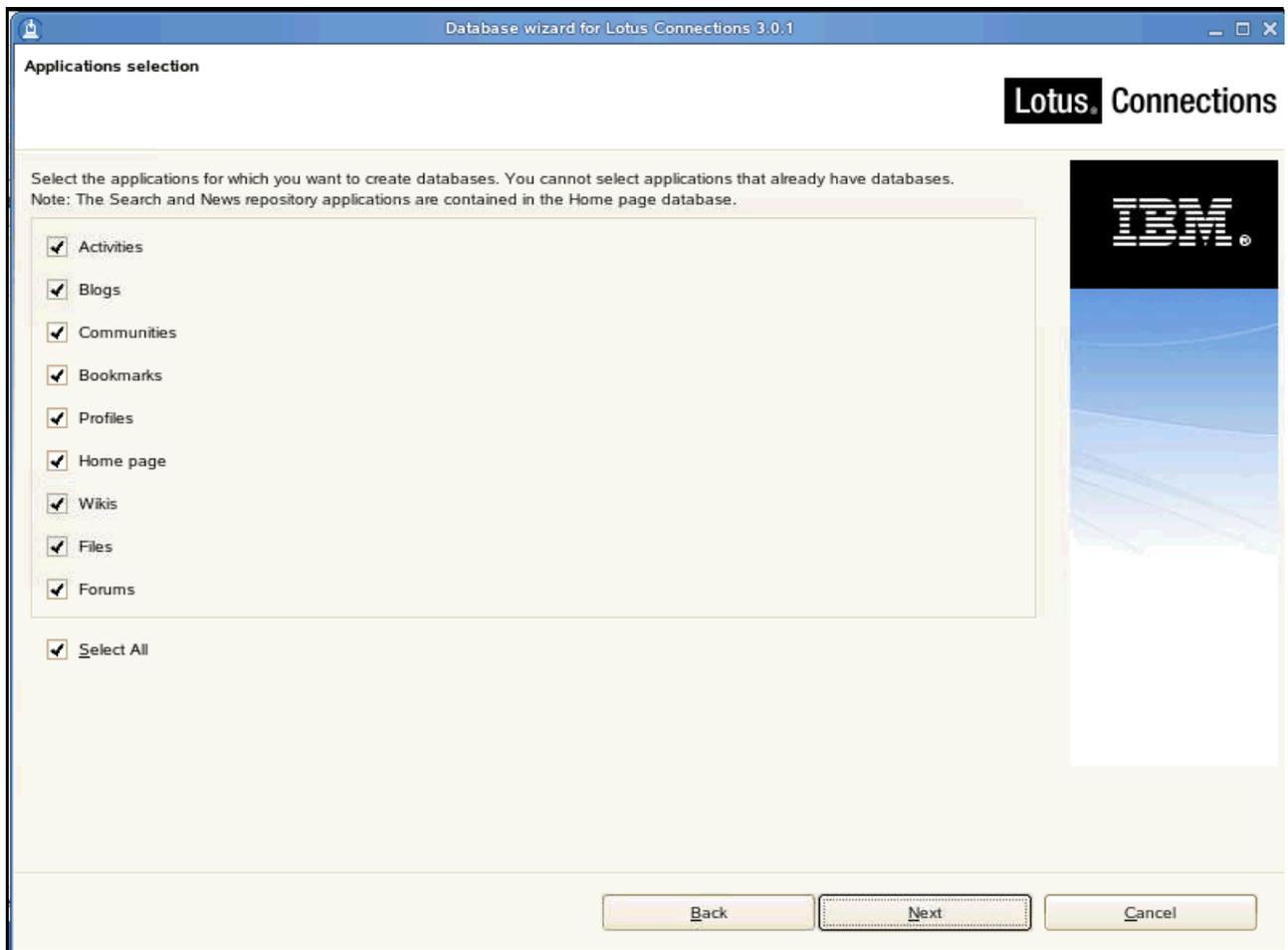


Figure 147. Database wizard for Lotus Connections 3.0.1: Applications selection screen

6. In the Database authentication for applications screen, enter and confirm a password, and click **Next**.

Database wizard for Lotus Connections 3.0.1

Database authentication for applications

Lotus Connections

Specify the passwords for the newly created database users.

Use the same password for all applications

Create different passwords for each application

	Database username	Password	Confirm password
Activities	OAUSER		
Blogs	BLOGSUSER		
Communities	SNCOMMUSER		
Bookmarks	DOGEARUSER		
Profiles	PROFUSER		
Home page	HOMEPAGEUSER		
Wikis	WIKISUSER		
Files	FILESUSER		
Forums	DFUSER		

Back Next Cancel

Figure 148. Database wizard for Lotus Connections 3.0.1: Database authentication for applications screen

7. Check the pre-configuration task summary and click **Create**.

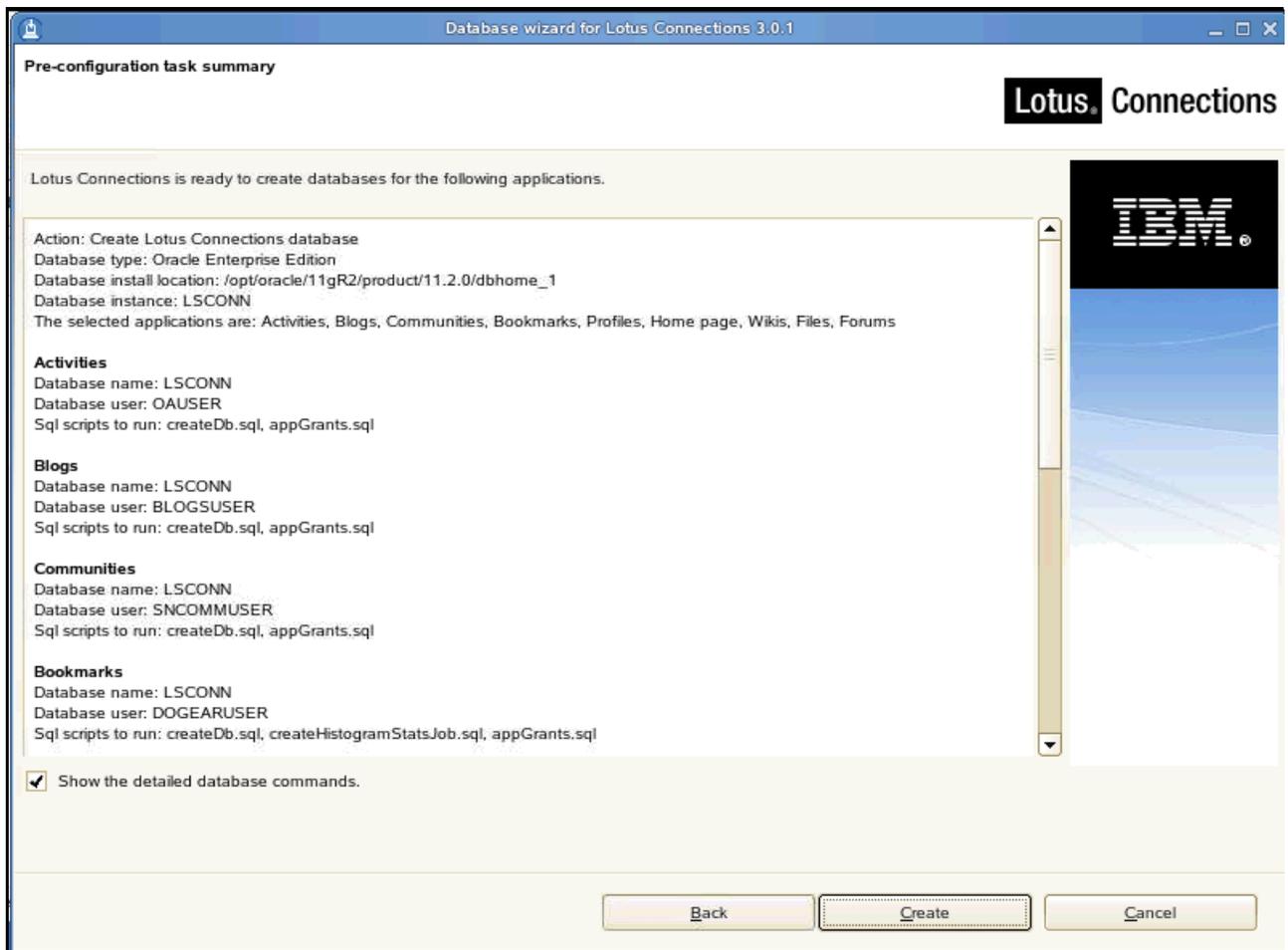


Figure 149. Database wizard for Lotus Connections 3.0.1: Pre-configuration task summary screen

8. The database creation detailed command is displayed. Click **Execute**.

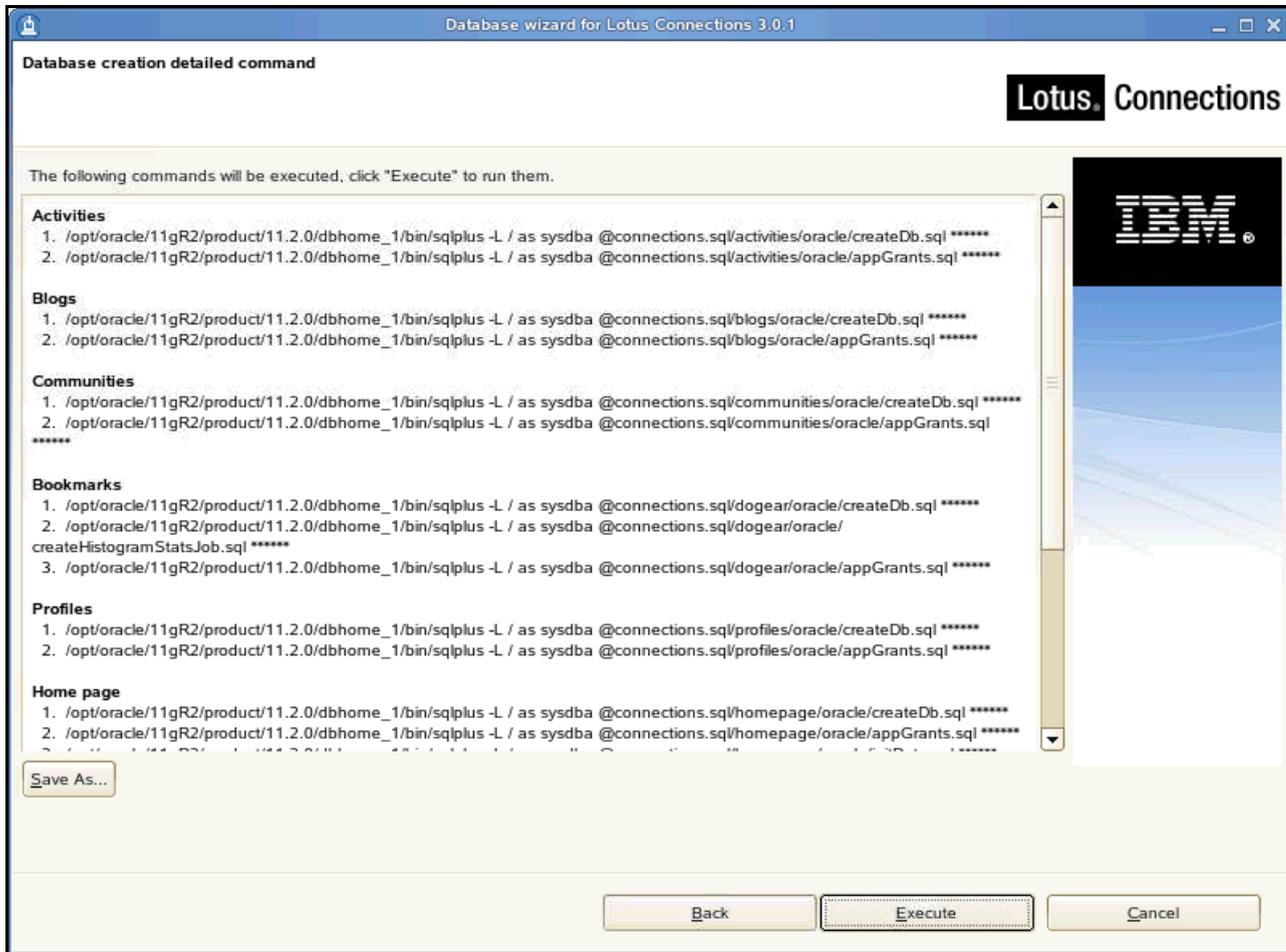


Figure 150. Database wizard for Lotus Connections 3.0.1: Database creation detailed command screen

The database creation begins.

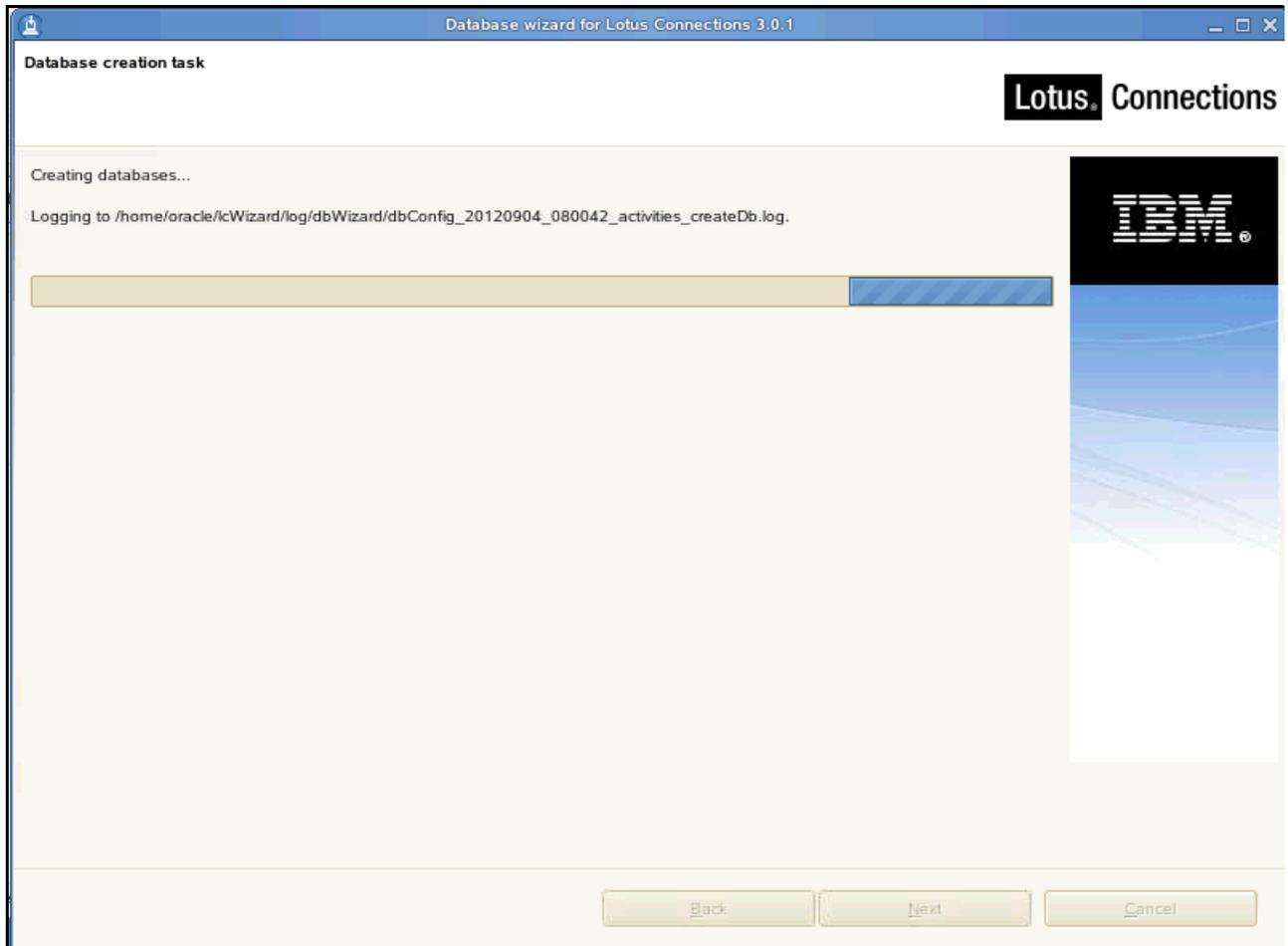


Figure 151. Database wizard for Lotus Connections 3.0.1: Database creation task

9. A post-configuration task summary is displayed. Click **Finish** to exit.

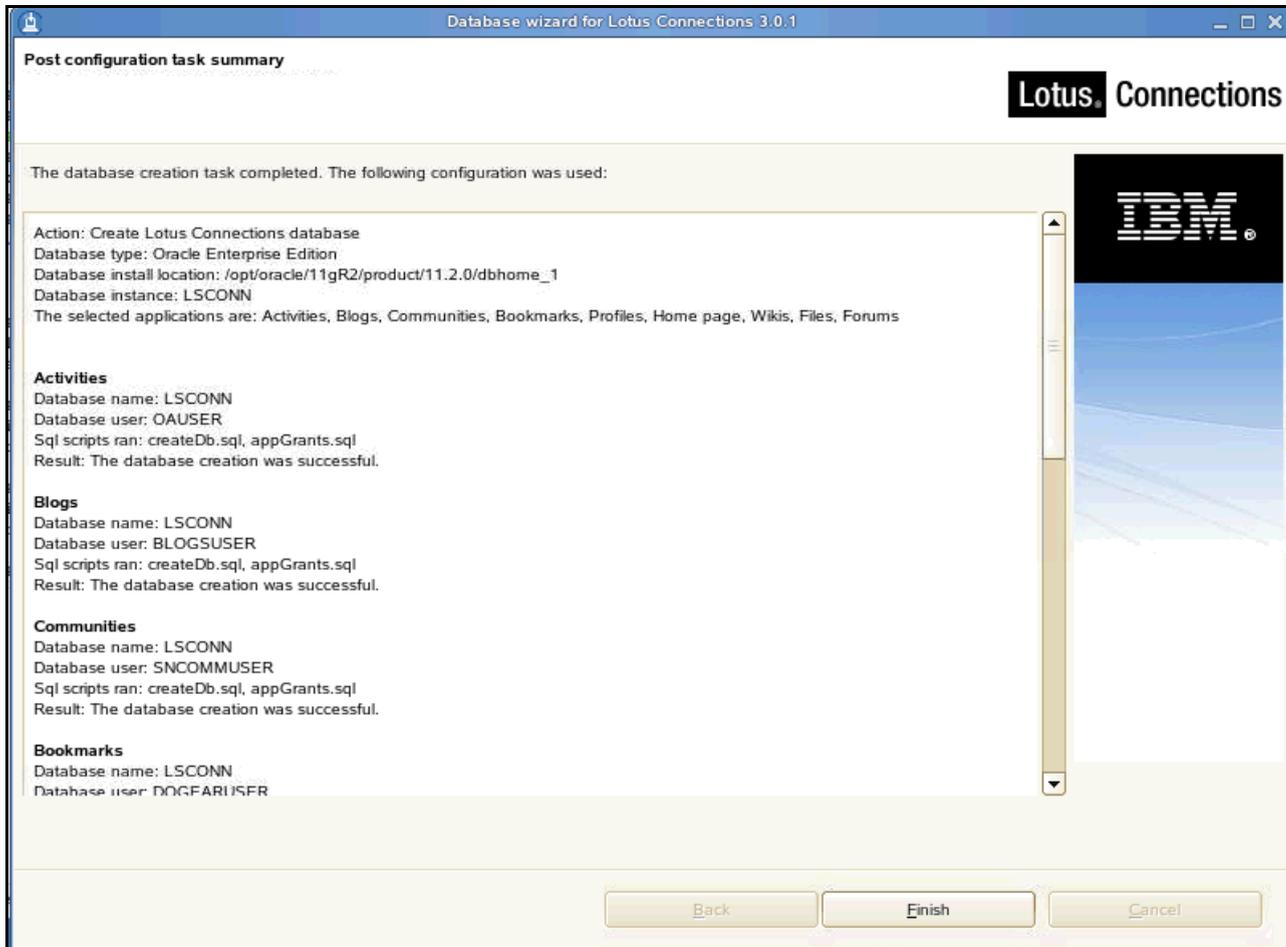


Figure 152. Database wizard for Lotus Connections 3.0.1: Post-configuration task summary screen

Database transfer

1. Prepare the target 3.0.1 databases to accept data from the source 3.0.1 databases. For each application, change to the directory that contains the relevant SQL file. Enter the following commands:

```
sqlplus /NOLOG
conn system/password@SID
@SQL_script.sql
```

Table 1: Oracle commands

Application	Directory	Oracle commands
Oracle commands to remove constraints		
Activities	/connections.sql/activities/oracle	@predbxfer301.sql
Blogs	/connections.sql/blogs/oracle	@predbxfer301.sql
Bookmarks	/connections.sql/dogear/oracle	@predbxfer301.sql
Communities	/connections.sql/communities/oracle	@predbxfer301.sql
Files	/connections.sql/files/oracle	@predbxfer301.sql
Forum	/connections.sql/forum/oracle	@predbxfer301.sql
Home page	/connections.sql/homepage/oracle	@predbxfer301.sql
Profiles	/connections.sql/profiles/oracle	@predbxfer301.sql
Wikis	/connections.sql/wikis/oracle	@predbxfer301.sql

2. Create a directory for DBT on the target database server.

```
/ICbuild/0624/Wizards/DBT_DIR
```

Figure 153. Creating a directory for DBT

3. Copy the dbt.jar file from the connections_root\ConfigEngine\lib directory to the DBT_DIR directory on the target database server.

```
<DBT DIR> :/ICbuild/0624/Wizards/DBT_DIR # ls
dbt.jar
```

Figure 154. Copy the dbt.jar file

4. Create an XML configuration file under the DBT_DIR directory and add the following content. Take HOMEPAGE, for example.

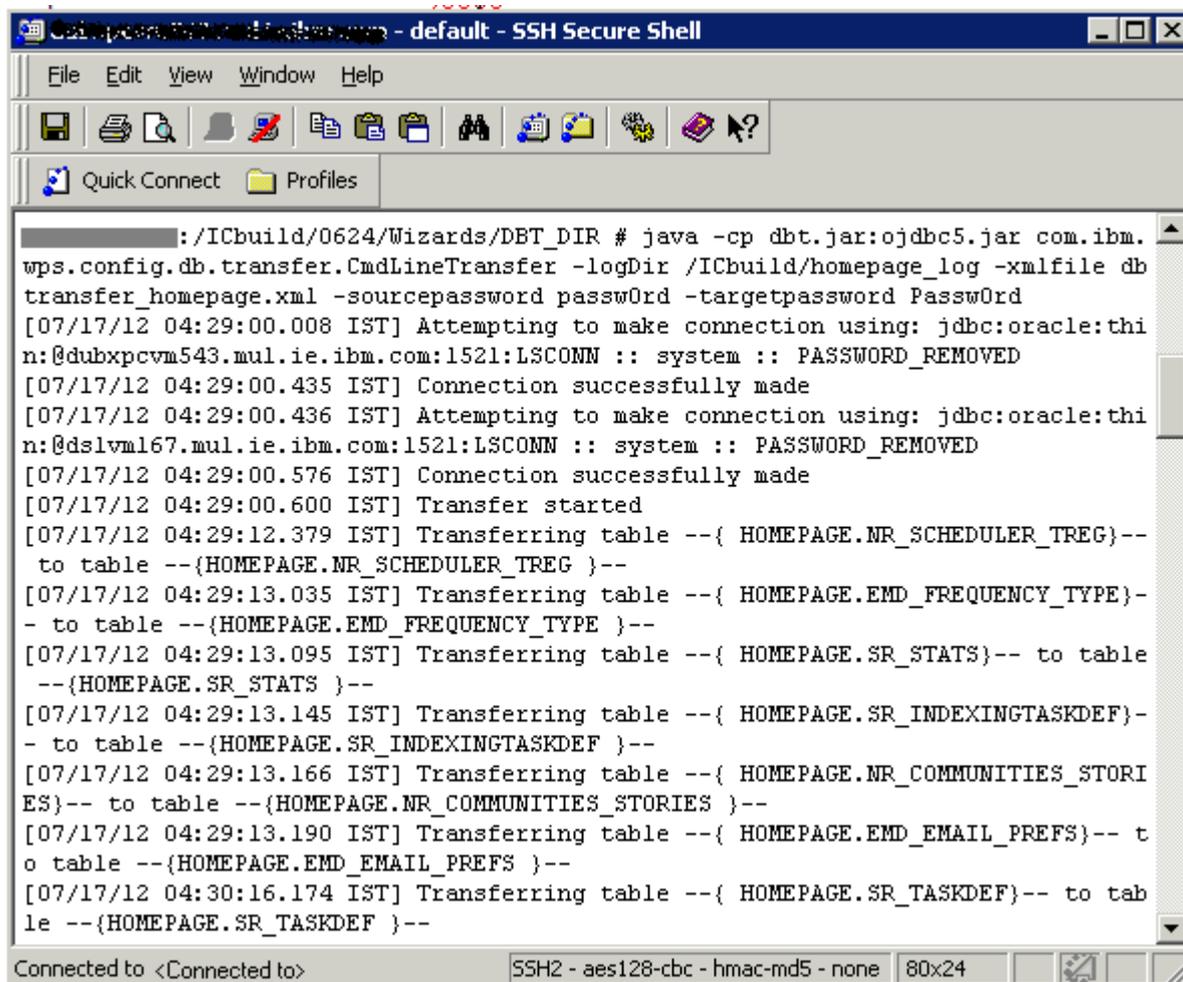
```
~/ICbuild/0624/Wizards/DBT_DIR # vi dbtransfer_homepage.xml
<dbTransfer xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<database role="source"
driver="oracle.jdbc.driver.OracleDriver"
url="jdbc:oracle:thin:@:1521:LSCONN"
userId="system"
schema="HOMEPAGE"
dbType="oracle"/>
<database role="target"
driver="oracle.jdbc.driver.OracleDriver"
url="jdbc:oracle:thin:@:1521:LSCONN"
userId="system"
schema="HOMEPAGE"
dbType="oracle"/>
</dbTransfer>
~
~
```

Figure 155. Adding content to the XML configuration

```
~/ICbuild/0624/Wizards/DBT_DIR # ls
command.txt          dbtransfer_dogear.xml  dbtransfer_profiles.xml
dbt.jar             dbtransfer_files.xml  dbtransfer_sncomm.xml
dbtransfer.xml      dbtransfer_forum.xml  dbtransfer_wikis.xml
dbtransfer act.xml  dbtransfer homepage.xml  ojdbc5.jar
```

Figure 156. Command window: DB transfers

5. To transfer the data, run the `dbt.jar` file.



```

:ICbuild/0624/Wizards/DBT_DIR # java -cp dbt.jar:ojdbc5.jar com.ibm.
wps.config.db.transfer.CmdLineTransfer -logDir /ICbuild/homepage_log -xmlfile db
transfer_homepage.xml -sourcepassword passw0rd -targetpassword Passw0rd
[07/17/12 04:29:00.008 IST] Attempting to make connection using: jdbc:oracle:thi
n:@dubxpcvm543.mul.ie.ibm.com:1521:LSCONN :: system :: PASSWORD_REMOVED
[07/17/12 04:29:00.435 IST] Connection successfully made
[07/17/12 04:29:00.436 IST] Attempting to make connection using: jdbc:oracle:thi
n:@dslvml67.mul.ie.ibm.com:1521:LSCONN :: system :: PASSWORD_REMOVED
[07/17/12 04:29:00.576 IST] Connection successfully made
[07/17/12 04:29:00.600 IST] Transfer started
[07/17/12 04:29:12.379 IST] Transferring table --{ HOME PAGE.NR_SCHEDULER_TREG}--
to table --{HOME PAGE.NR_SCHEDULER_TREG }--
[07/17/12 04:29:13.035 IST] Transferring table --{ HOME PAGE.EMD_FREQUENCY_TYPE}-
- to table --{HOME PAGE.EMD_FREQUENCY_TYPE }--
[07/17/12 04:29:13.095 IST] Transferring table --{ HOME PAGE.SR_STATS}-- to table
--{HOME PAGE.SR_STATS }--
[07/17/12 04:29:13.145 IST] Transferring table --{ HOME PAGE.SR_INDEXINGTASKDEF}-
- to table --{HOME PAGE.SR_INDEXINGTASKDEF }--
[07/17/12 04:29:13.166 IST] Transferring table --{ HOME PAGE.NR_COMMUNITIES_STORI
ES}-- to table --{HOME PAGE.NR_COMMUNITIES_STORIES }--
[07/17/12 04:29:13.190 IST] Transferring table --{ HOME PAGE.EMD_EMAIL_PREFS}-- t
o table --{HOME PAGE.EMD_EMAIL_PREFS }--
[07/17/12 04:30:16.174 IST] Transferring table --{ HOME PAGE.SR_TASKDEF}-- to tab
le --{HOME PAGE.SR_TASKDEF }--

```

Figure 157. Running the `dbt.jar` file

6. Reapply constraints to the target databases. For each application, change to the directory that contains the relevant SQL file. Enter the following commands:

```

sqlplus /NOLOG
conn system/password@SID
@SQL_script.sql

```

Table 2: Oracle commands

Application	Directory	Oracle commands
Oracle commands to reapply constraints		
Activities	/connections.sql/activities/oracle	@postdbxfer301.sql @clearScheduler.sql
Blogs	/connections.sql/blogs/oracle	@postdbxfer301.sql
Bookmarks	/connections.sql/dogear/oracle	@postdbxfer301.sql

Table 2: Oracle commands

Application	Directory	Oracle commands
Communities	/connections.sql/communities/oracle	@postdbxfer301.sql @clearScheduler.sql
Files	/connections.sql/files/oracle	@postdbxfer301.sql @clearScheduler.sql
Forum	/connections.sql/forum/oracle	@postdbxfer301.sql @clearScheduler.sql
Home page	/connections.sql/homepage/oracle	@postdbxfer301.sql @clearScheduler.sql
Profiles	/connections.sql/profiles/oracle	@postdbxfer301.sql @clearScheduler.sql
Wikis	/connections.sql/wikis/oracle	@postdbxfer301.sql @clearScheduler.sql

- ___ 7. Run the following commands to update the database sequence for Oracle databases. Run them on the 3.0.1 source database:

```
SELECT EMPINST.EMPINST.EXT_DRAFT_SEQ.NEXTVAL AS EXT_DRAFT_SEQ FROM DUAL;
SELECT EMPINST.EMPINST.EMP_DRAFT_SEQ.NEXTVAL AS EMP_DRAFT_SEQ FROM DUAL;
SELECT EMPINST.CHG_EMP_DRAFT_SEQ1.NEXTVAL AS CHG_EMP_DRAFT_SEQ1 FROM DUAL;
SELECT EMPINST.CHG_EMP_DRAFT_SEQ2.NEXTVAL AS CHG_EMP_DRAFT_SEQ2 FROM DUAL;
```

- ___ 8. Run the following commands on the 3.0.1 target database:

```
DROP SEQUENCE EMPINST.EXT_DRAFT_SEQ;
CREATE SEQUENCE EMPINST.EXT_DRAFT_SEQ START WITH query_result;
DROP SEQUENCE EMPINST.EMP_DRAFT_SEQ;
CREATE SEQUENCE EMPINST.EMP_DRAFT_SEQ START WITH query_result;
DROP SEQUENCE EMPINST.CHG_EMP_DRAFT_SEQ1;
CREATE SEQUENCE EMPINST.CHG_EMP_DRAFT_SEQ1 START WITH query_result;
DROP SEQUENCE EMPINST.CHG_EMP_DRAFT_SEQ2;
CREATE SEQUENCE EMPINST.CHG_EMP_DRAFT_SEQ2 START WITH query_result;
```

Where `query_result` is the result of the corresponding SELECT command that you ran on the 3.0.1 database.

DB Upgrade

1. Run the following command to open the Database wizard for IBM Connections 4.0.

```
|oracle@ <host name> :/mnt/Wizards> ./dbWizard.sh
```

Figure 158. Command to open the database wizard for IBM Connections 4.0

2. The Database wizard for IBM Connections 4.0. opens. In the wizard welcome screen, click **Next** to continue.

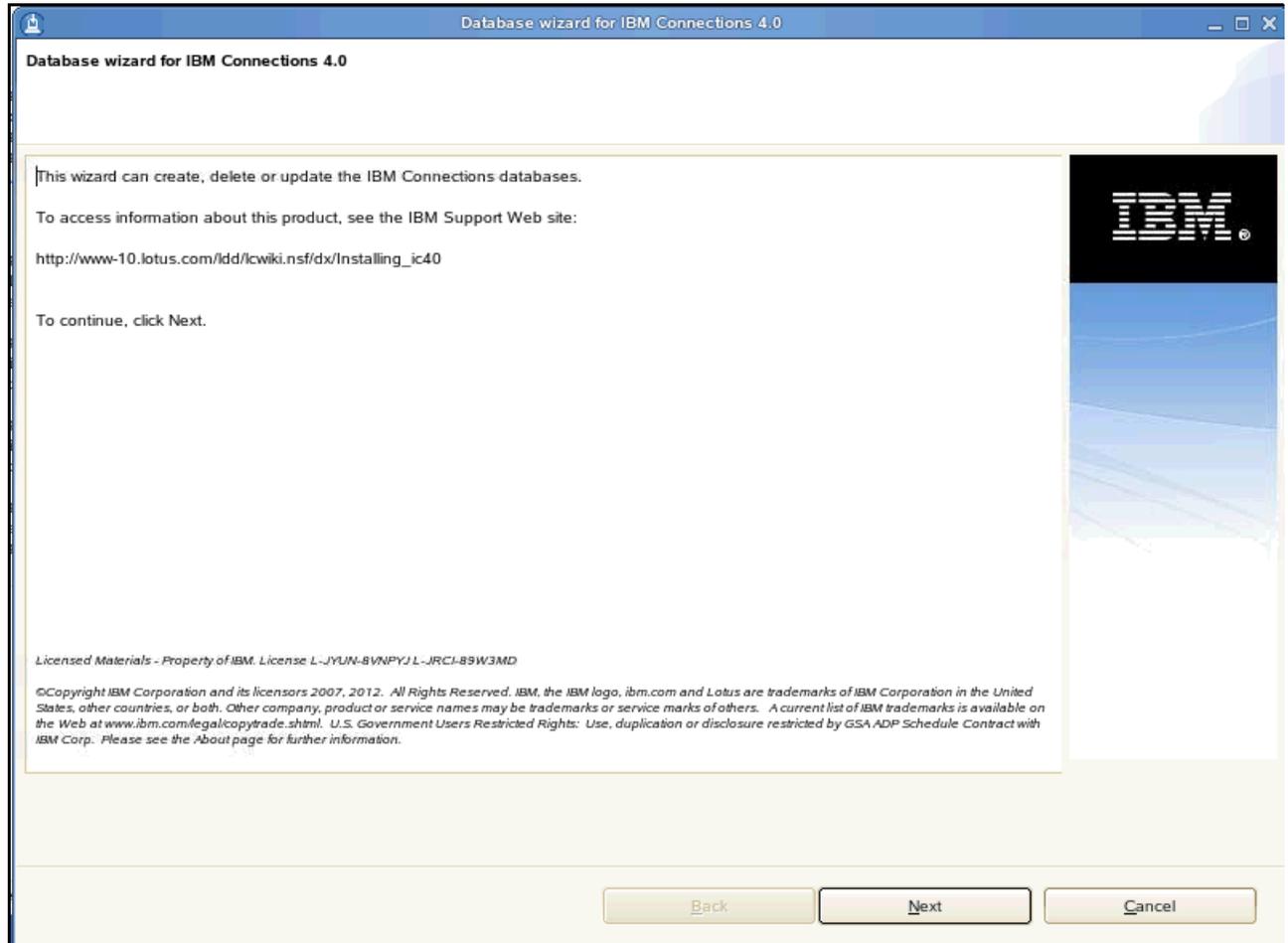


Figure 159. Database wizard for IBM Connections 4.0: Welcome screen

- ___ 3. In the Database task selection screen, select Update operation only for IBM Connections database 3.0.1.x to 4.0 and click **Next**.

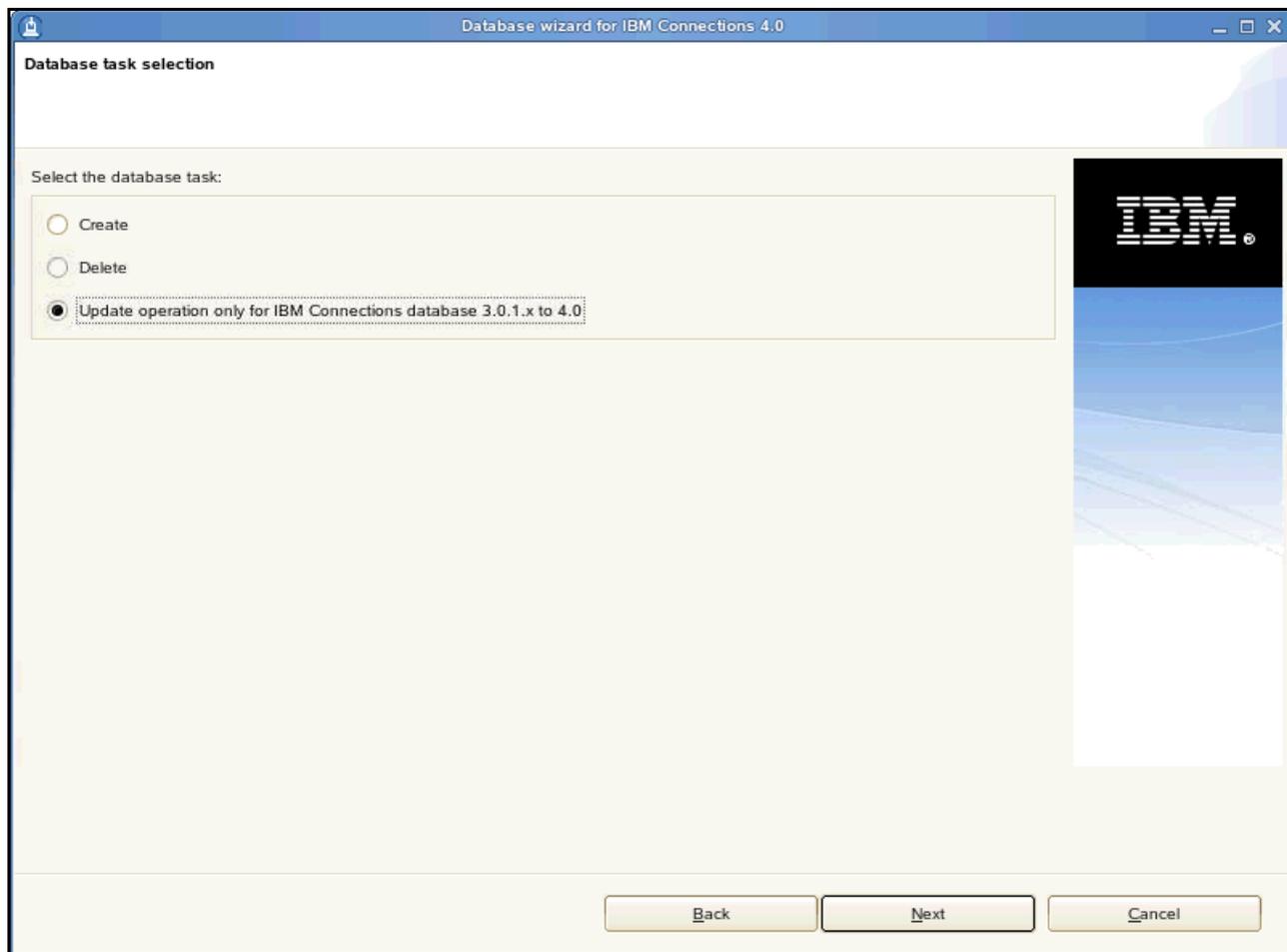


Figure 160. Database wizard for IBM Connections 4.0: Database task selection screen

4. In the Database selection screen, select Oracle Enterprise Edition and click **Next**.

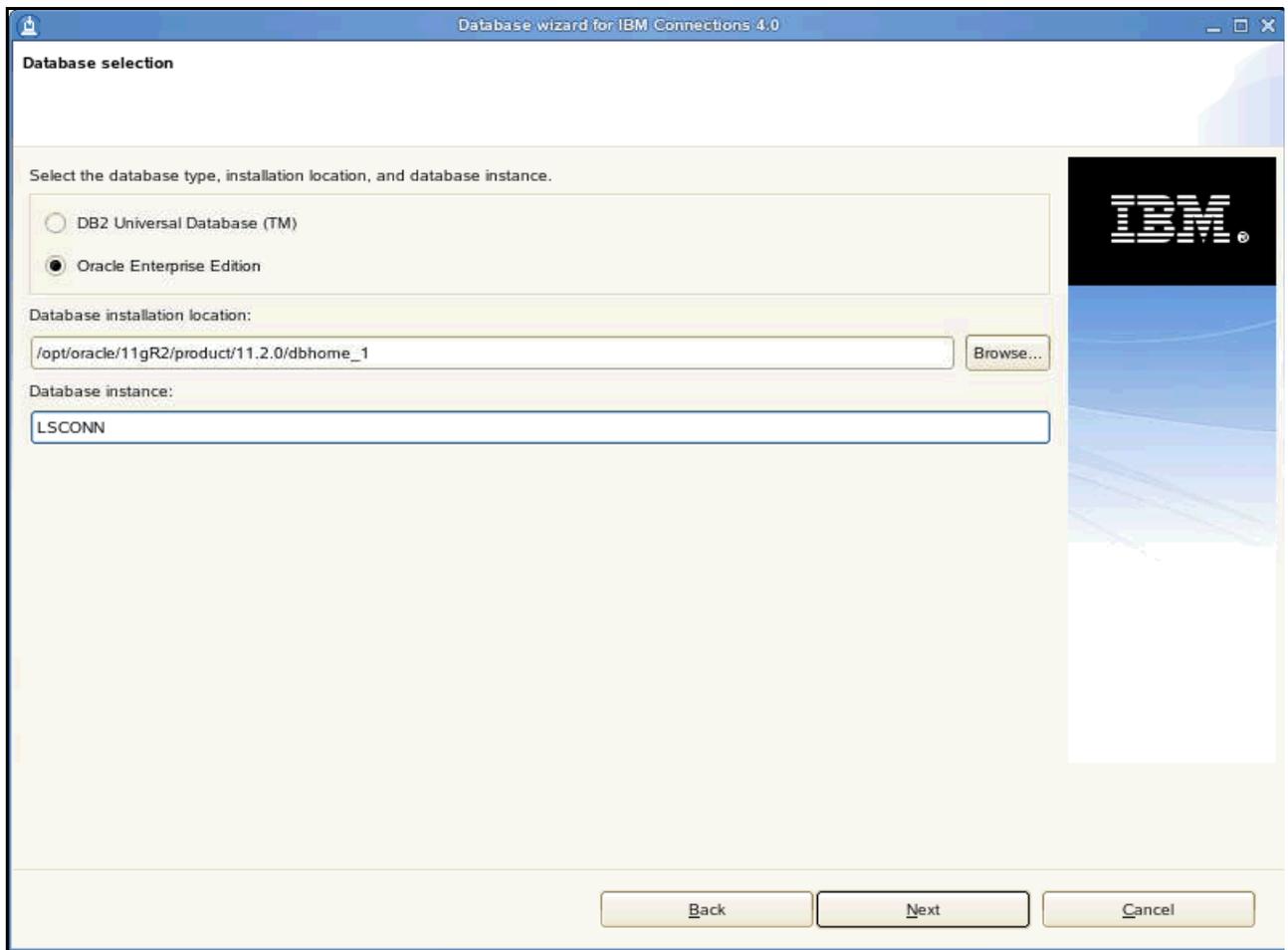


Figure 161. Database wizard for IBM Connections 4.0: Database selection screen

5. In the Applications selection screen, check all options available and click **Next**.

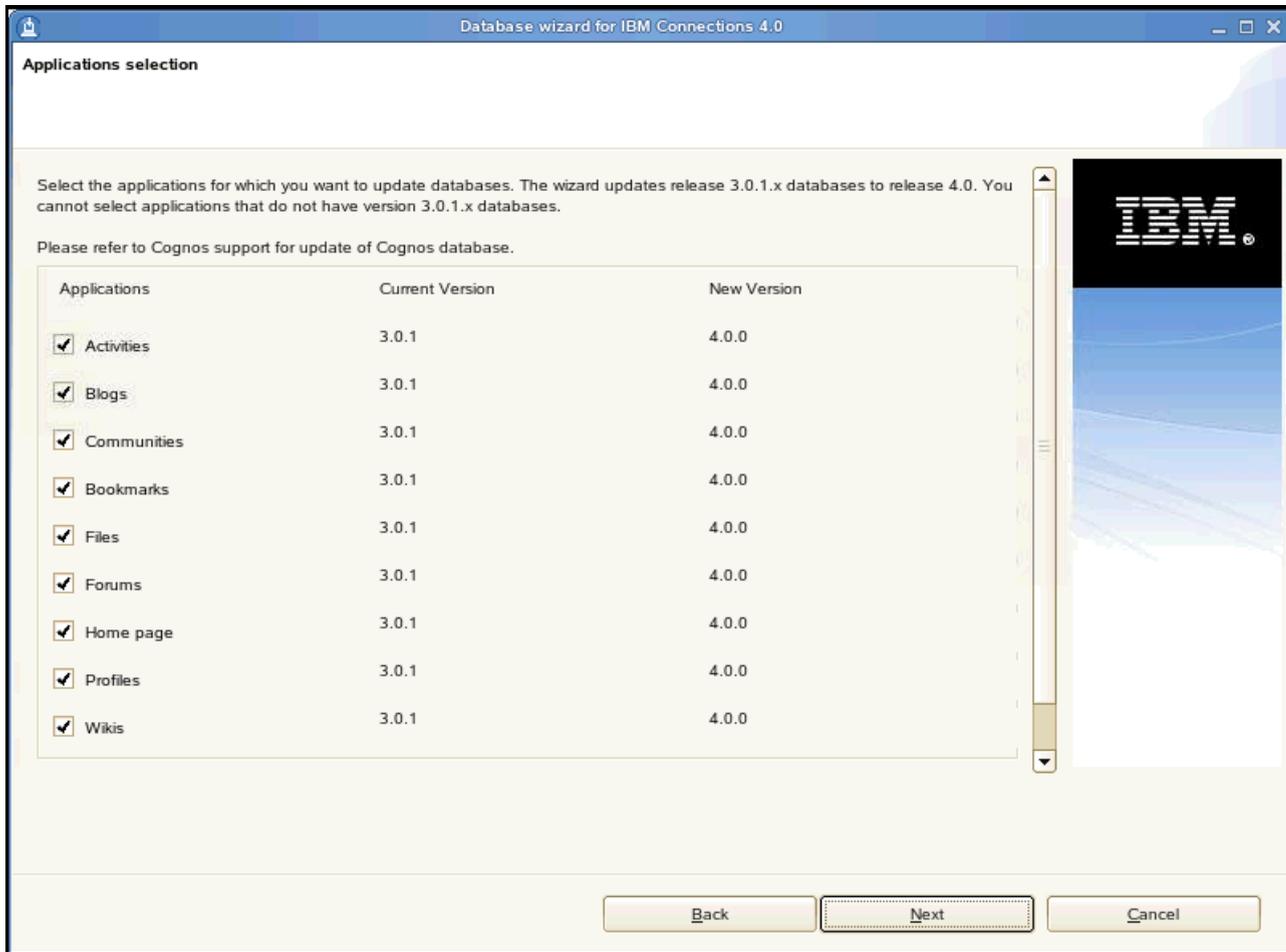


Figure 162. Database wizard for IBM Connections 4.0: Applications selection screen

- ___ 6. You are prompted to enter the parameter `storyLifetimeInDays`. Enter **30**, click **OK**, and click **Next**.

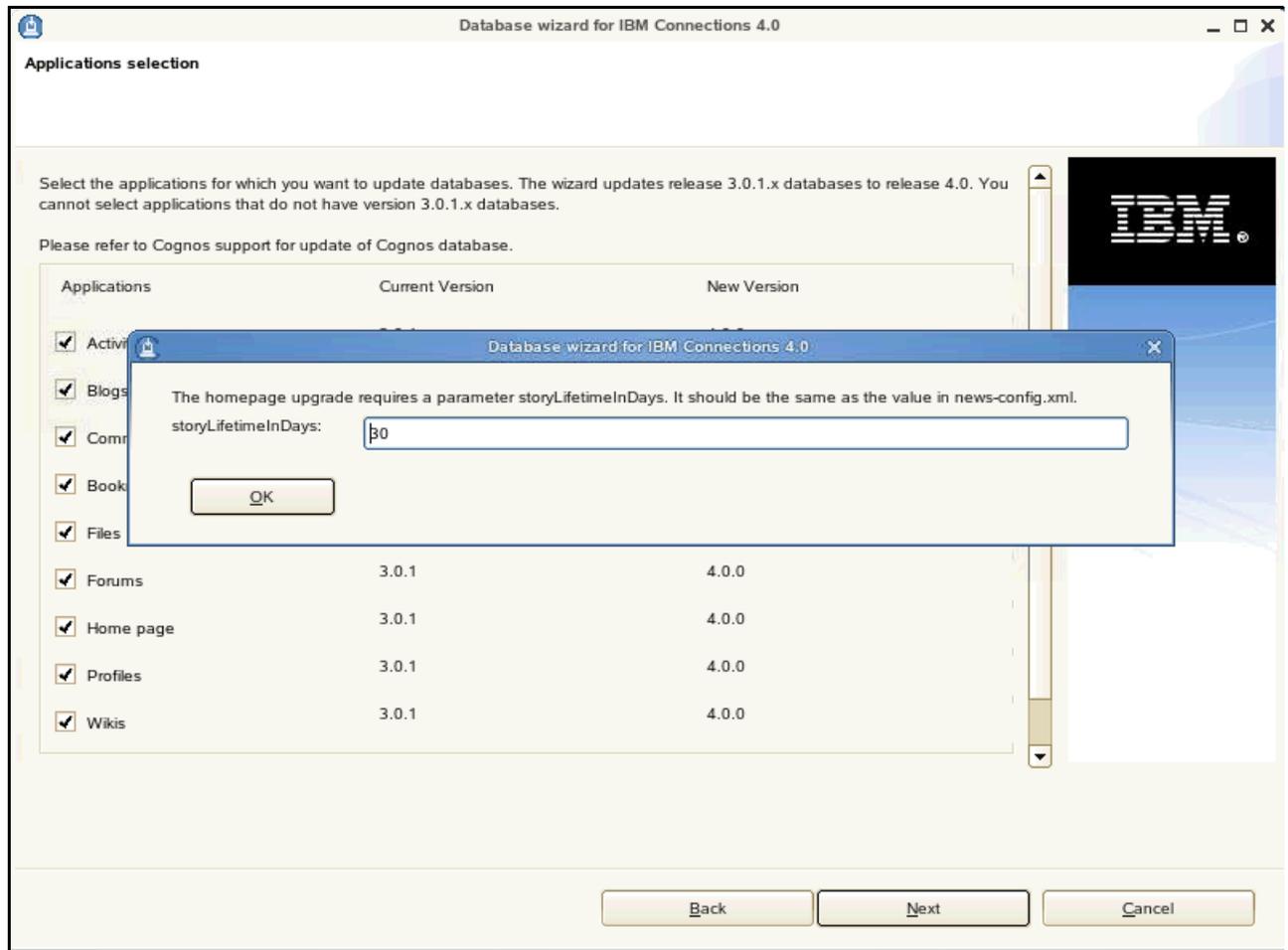


Figure 163. Database wizard for IBM Connections 4.0: Applications selection screen: `storyLifetimeInDays` parameter

- ___ 7. In the Database authentication for applications, select Use the same password for the database users and enter and confirm a password. Click **Next**.

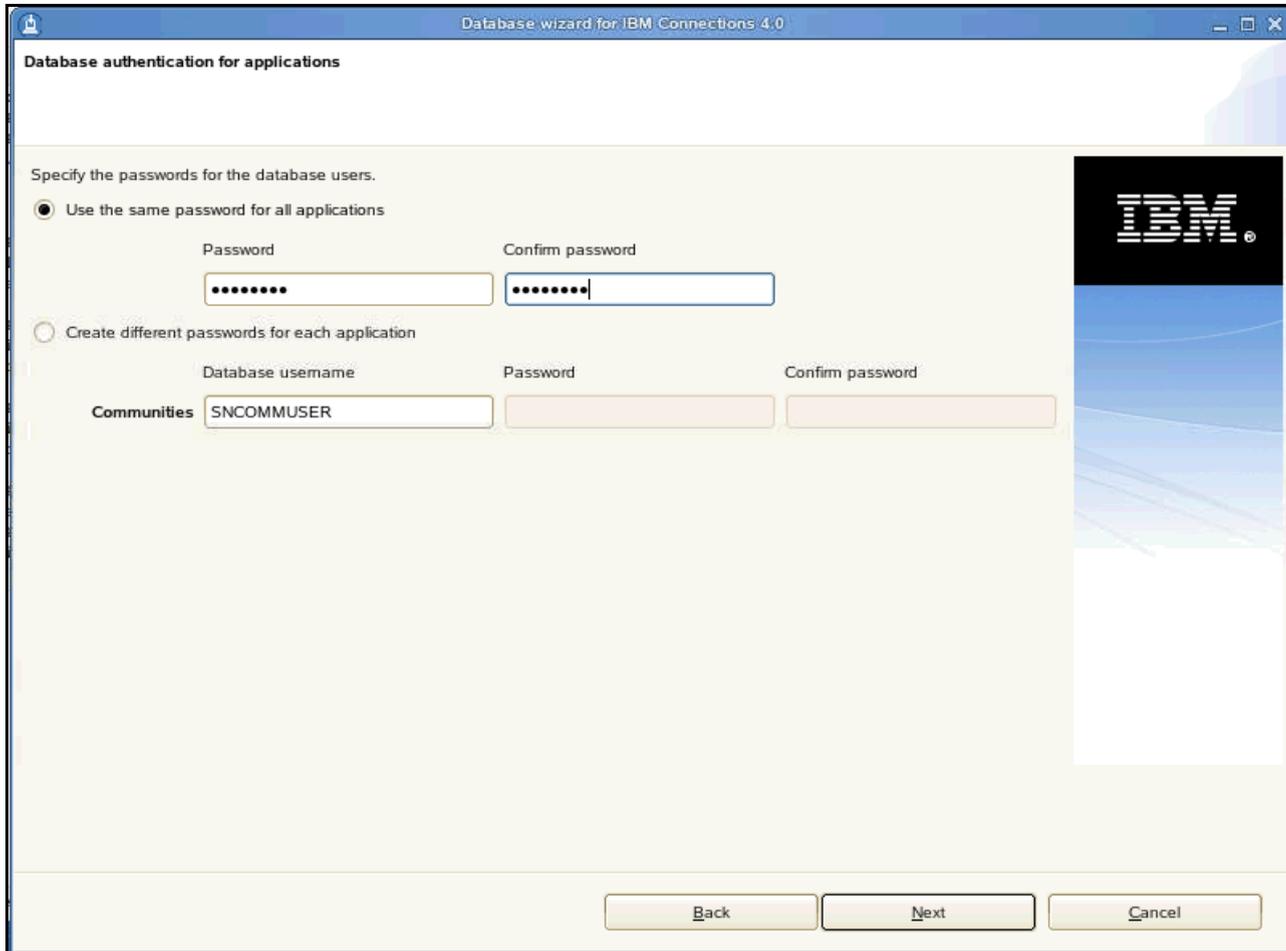
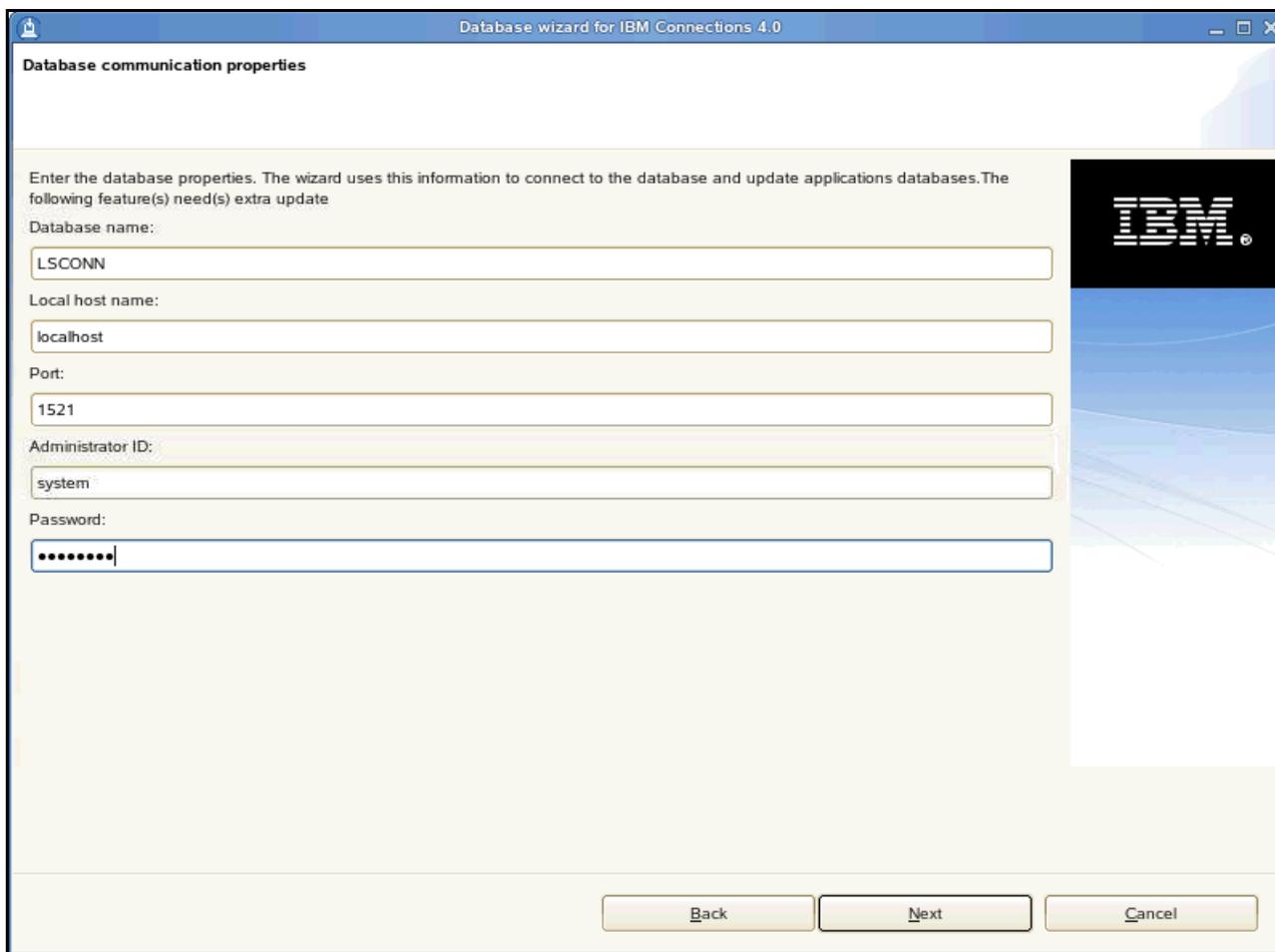


Figure 164. Database wizard for IBM Connections 4.0: Database authentication for applications screen

8. Enter the database communication properties and click **Next**.



The screenshot shows a window titled "Database wizard for IBM Connections 4.0". The main heading is "Database communication properties". Below this, there is a text box with the instruction: "Enter the database properties. The wizard uses this information to connect to the database and update applications databases. The following feature(s) need(s) extra update".

The form contains the following fields:

- Database name: LSCONN
- Local host name: localhost
- Port: 1521
- Administrator ID: system
- Password: [masked with dots]

At the bottom right, there are three buttons: "Back", "Next", and "Cancel". An IBM logo is visible on the right side of the window.

Figure 165. Database wizard for IBM Connections 4.0: Database communication properties screen

9. Enter the profiles database connection properties and click **Next**.

The screenshot shows a window titled "Database wizard for IBM Connections 4.0" with a sub-header "Profiles database connection". Below the header, there is a text instruction: "Enter the Profiles database properties. The wizard uses this information to transfer data from Profiles database to HomePage database." followed by "ORACLE_SID for the Profiles database instance:". The input field contains "LSCONN".

Below that is "Database host name:" with the input field containing "localhost".

Next is "Port:" with the input field containing "1521".

Then "Administrator ID:" with the input field containing "system".

Finally, "Password:" with an input field containing seven dots "•••••••".

At the bottom right, there are three buttons: "Back", "Next", and "Cancel".

An IBM logo is visible on the right side of the window.

Figure 166. Database wizard for IBM Connections 4.0: Profiles database connection screen

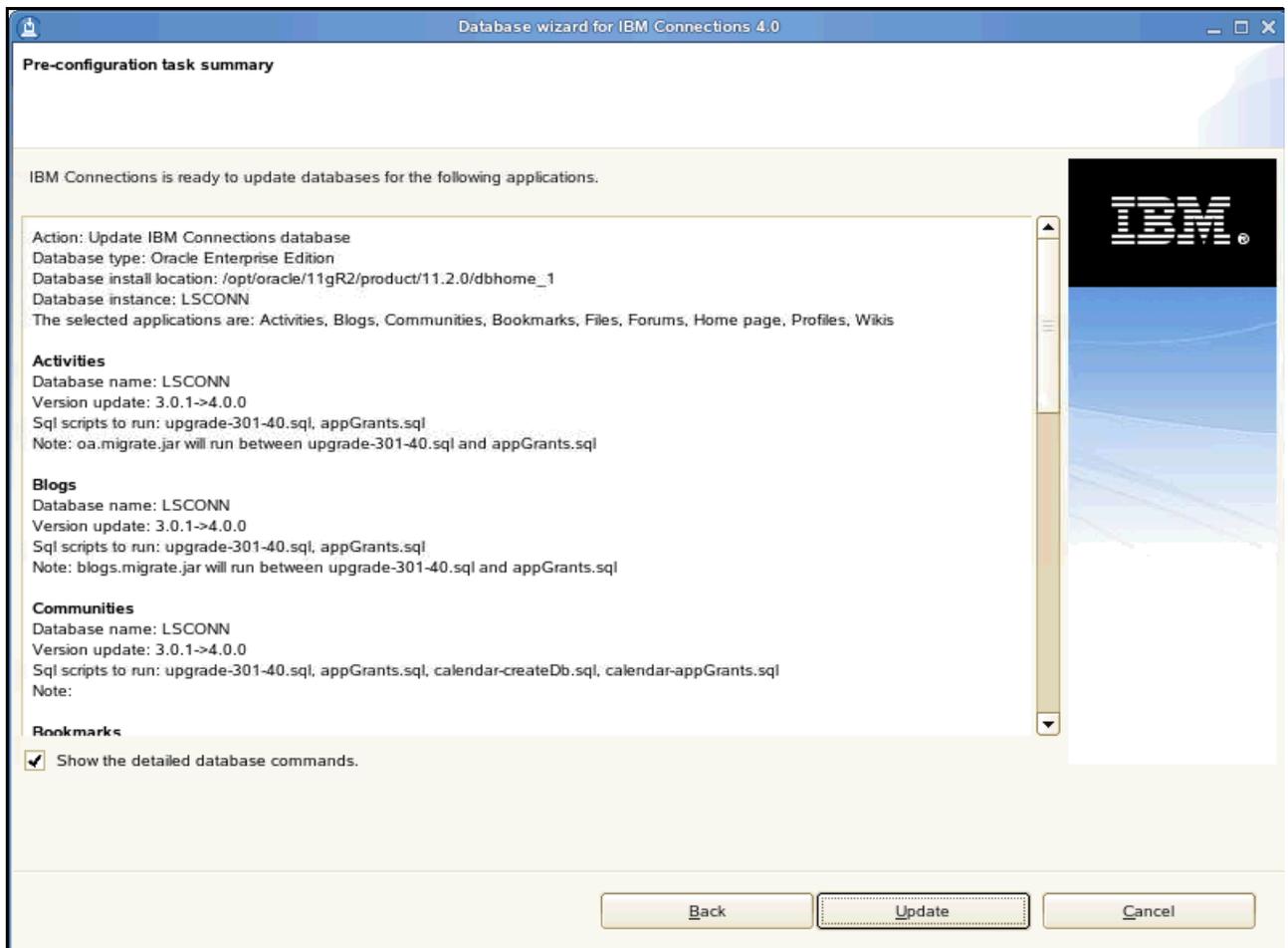
10. Review the pre-configuration task summary and click **Update**.

Figure 167. Database wizard for IBM Connections 4.0: Pre-configuration task summary screen

11. The database update detailed commands are displayed. Click **Execute**.

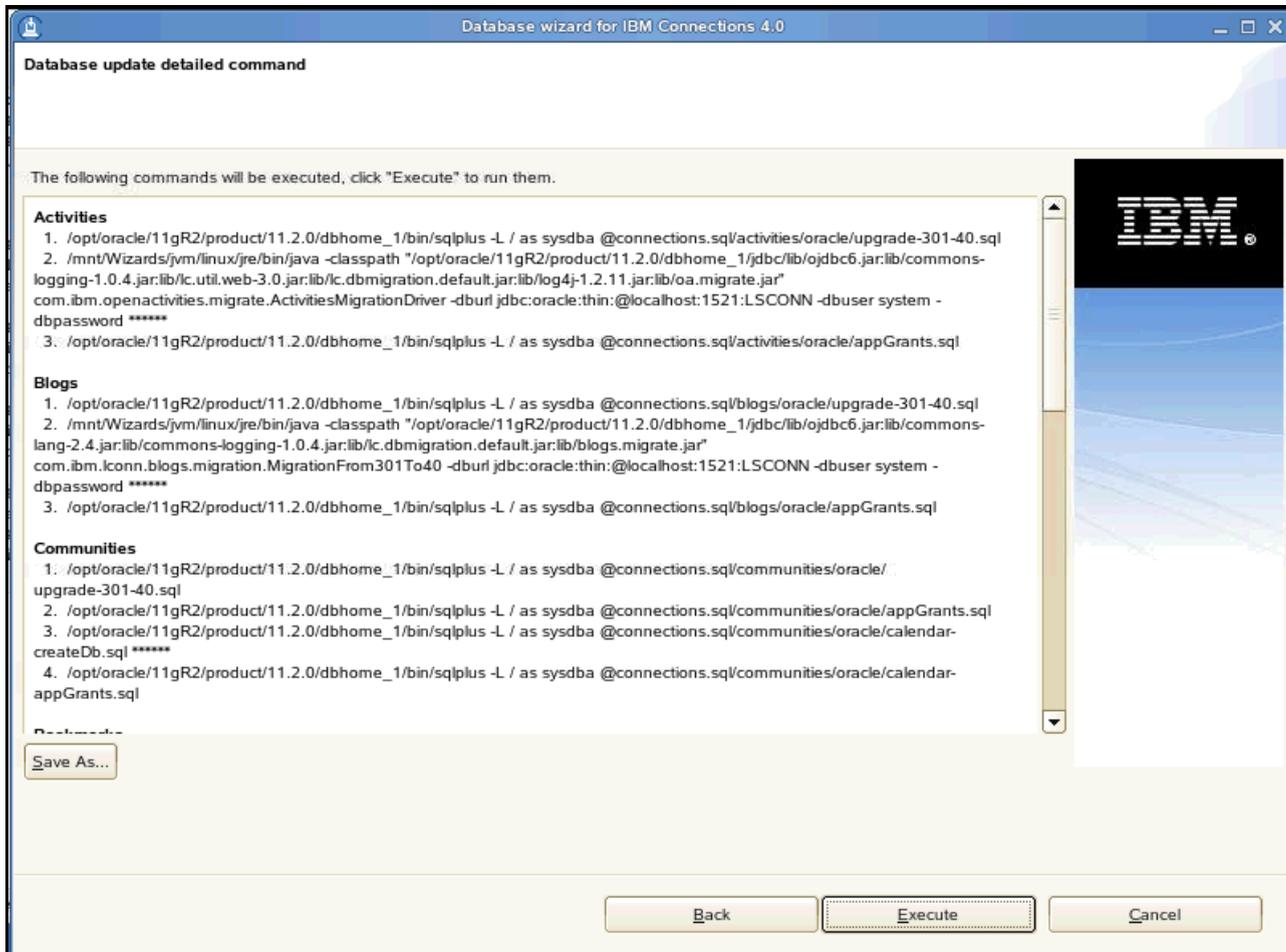


Figure 168. Database wizard for IBM Connections 4.0: Database update detailed command screen

The update begins.

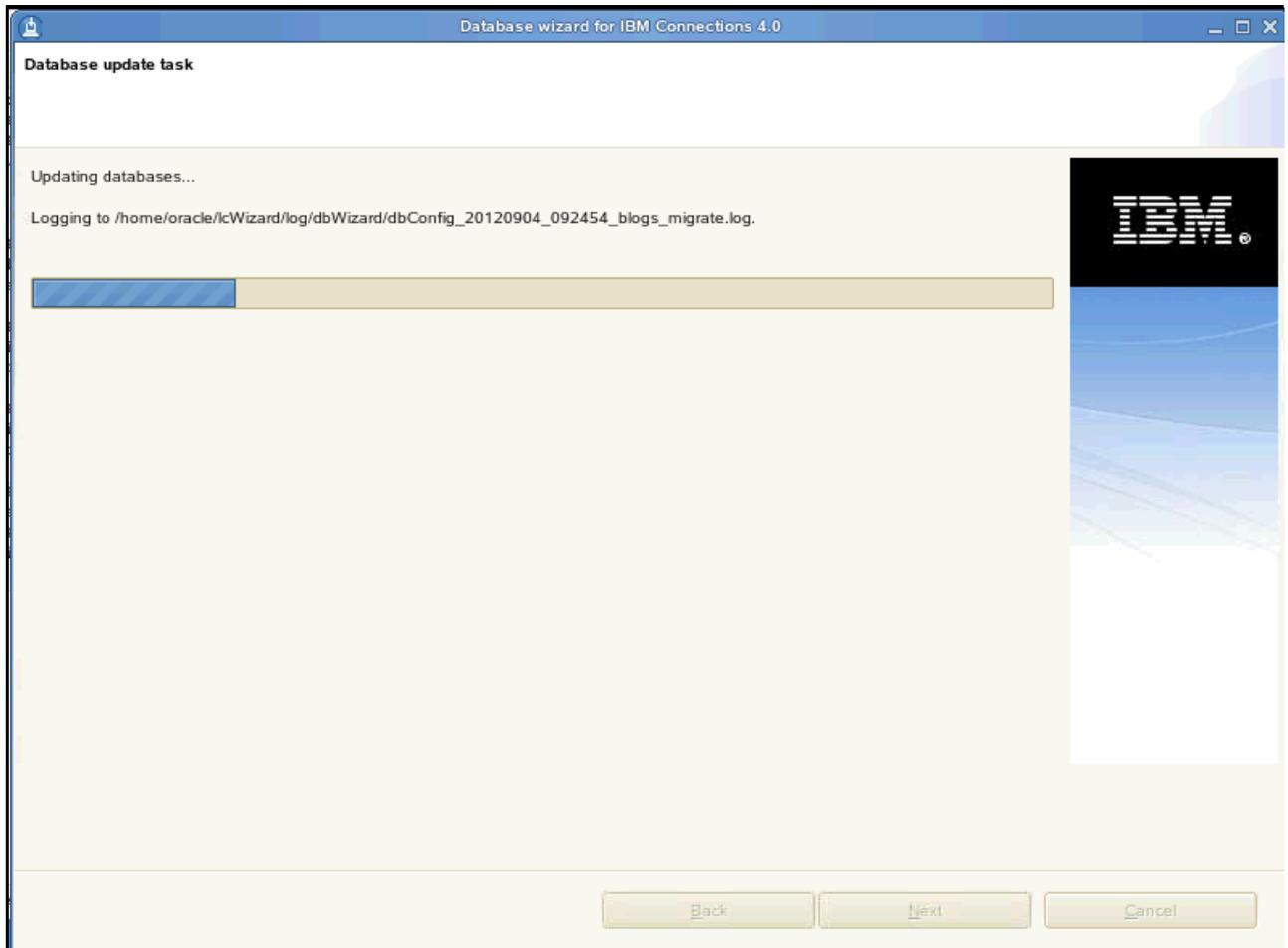


Figure 169. Database wizard for IBM Connections 4.0: Update in progress

___ 12. When the update finishes, the post configuration task summary is displayed. Click **Finish**.

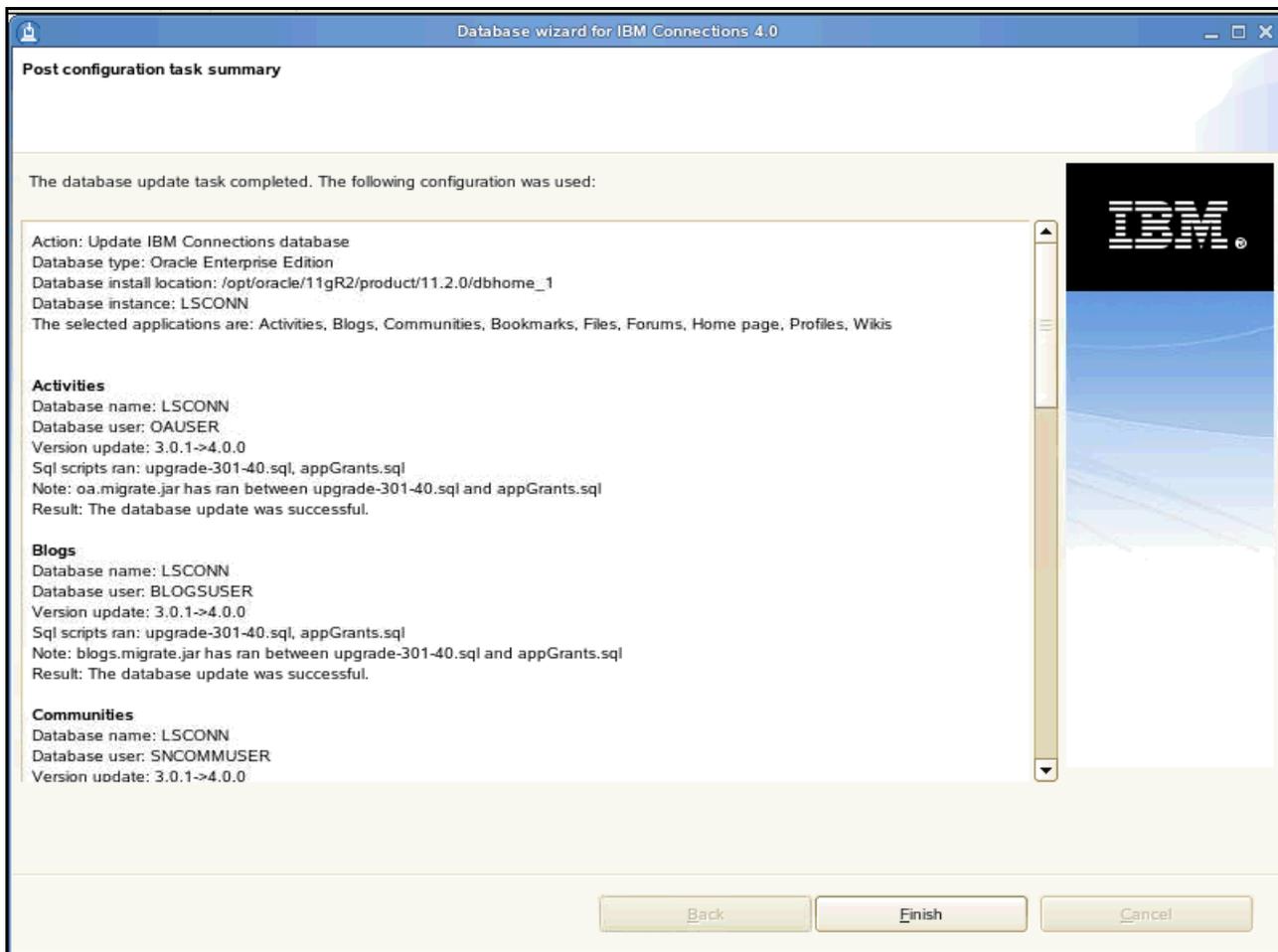
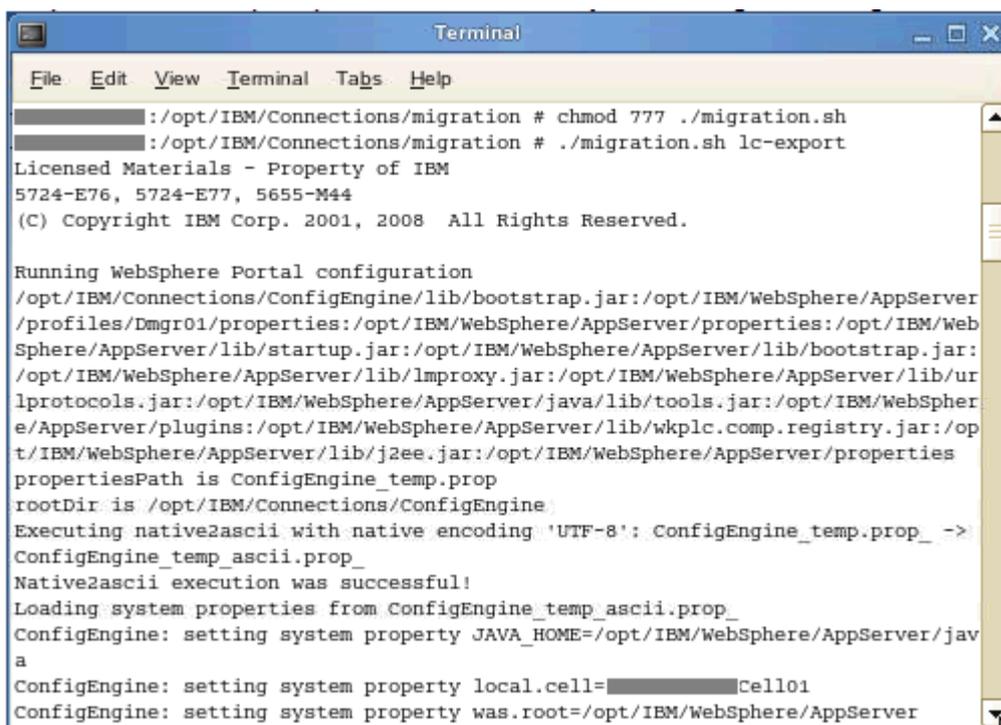


Figure 170. Database wizard for IBM Connections 4.0: Post configuration task summary screen

___ 13. Then, create Mobile, Metrics, and Cognos database by using 4.0 dbwizard.

Export configuration

- ___ 1. Rename the migration directory in your IBM Connections 3.0.1 deployment.
- ___ 2. Copy the `migration_4.0.0.0_date_time.zip` file from the `IBM_Connections_Install/IBMConnections/native` directory of the installation media, where date and time represent the date and time stamps of the file.
- ___ 3. Extract the file to the IBM Connections 3.0.1 installation directory and ensure that your archiving software preserves the directory structure of the compressed files. The extracted archive should create a migration directory at the same directory level as the ConfigEngine directory.
- ___ 4. Open a command prompt on the version 3.0.1 system, change to the migration directory and run the following command:



```

Terminal
File Edit View Terminal Tabs Help
[redacted]:/opt/IBM/Connections/migration # chmod 777 ./migration.sh
[redacted]:/opt/IBM/Connections/migration # ./migration.sh lc-export
Licensed Materials - Property of IBM
5724-E76, 5724-E77, 5655-M44
(C) Copyright IBM Corp. 2001, 2008 All Rights Reserved.

Running WebSphere Portal configuration
/opt/IBM/Connections/ConfigEngine/lib/bootstrap.jar:/opt/IBM/WebSphere/AppServer
/profiles/Dmgr01/properties:/opt/IBM/WebSphere/AppServer/properties:/opt/IBM/Web
Sphere/AppServer/lib/startup.jar:/opt/IBM/WebSphere/AppServer/lib/bootstrap.jar:
/opt/IBM/WebSphere/AppServer/lib/lmproxy.jar:/opt/IBM/WebSphere/AppServer/lib/ur
lprotocols.jar:/opt/IBM/WebSphere/AppServer/java/lib/tools.jar:/opt/IBM/WebSpher
e/AppServer/plugins:/opt/IBM/WebSphere/AppServer/lib/wkplc.comp.registry.jar:/op
t/IBM/WebSphere/AppServer/lib/j2ee.jar:/opt/IBM/WebSphere/AppServer/properties
propertiesPath is ConfigEngine_temp.prop
rootDir is /opt/IBM/Connections/ConfigEngine
Executing native2ascii with native encoding 'UTF-8': ConfigEngine_temp.prop_ ->
ConfigEngine_temp_ascii.prop_
Native2ascii execution was successful!
Loading system properties from ConfigEngine_temp_ascii.prop_
ConfigEngine: setting system property JAVA_HOME=/opt/IBM/WebSphere/AppServer/jav
a
ConfigEngine: setting system property local.cell=[redacted]Cell01
ConfigEngine: setting system property was.root=/opt/IBM/WebSphere/AppServer

```

Figure 171. Migration command

- ___ 5. The output is saved under `migration/work` folder. Back up the whole migration folder for 301.

Installing

Install LC 4.0

- ___ 1. Remove `/var/ibm` to delete previous LC installation records.
- ___ 2. Install LC 4.0.
- ___ 3. In IBM Connections 4.0.0, click **Launch the IBM Connections 4.0.0 install wizard**.

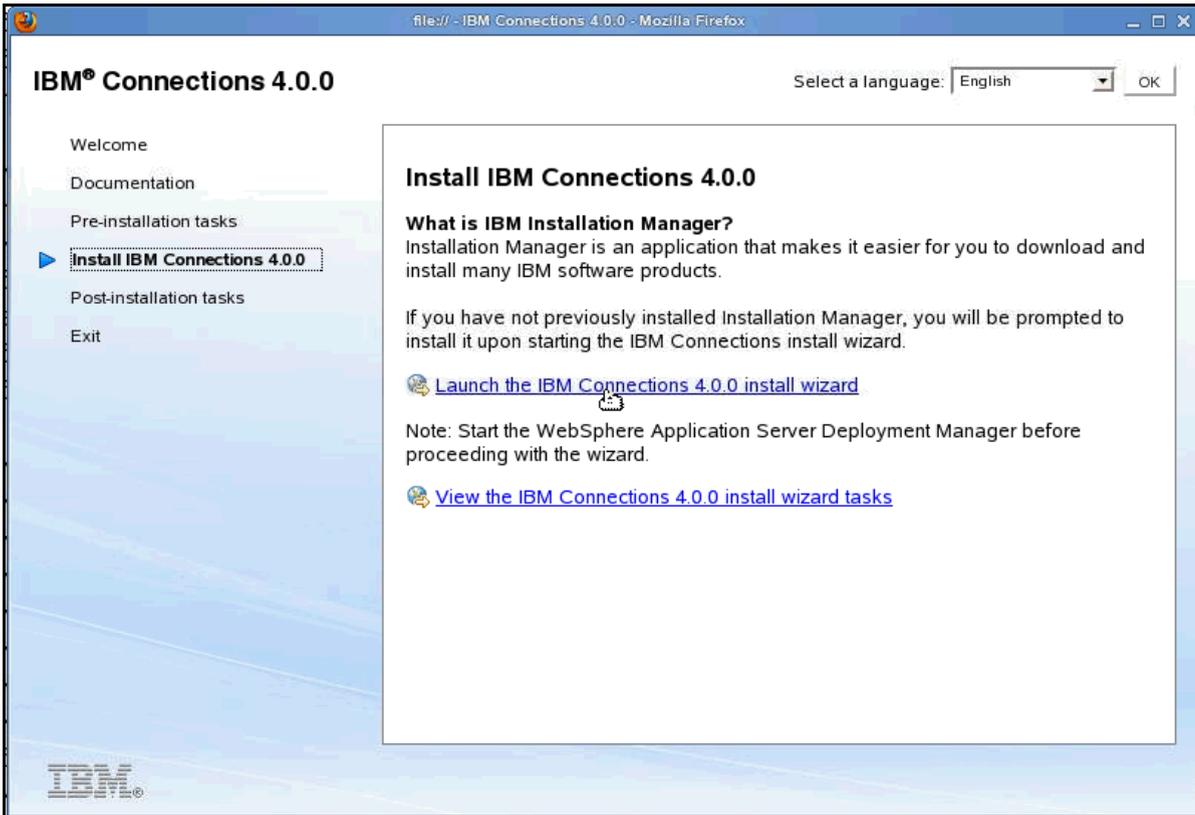


Figure 172. IBM Connections 4.0.0

4. Select the packages to install and click **Next**.

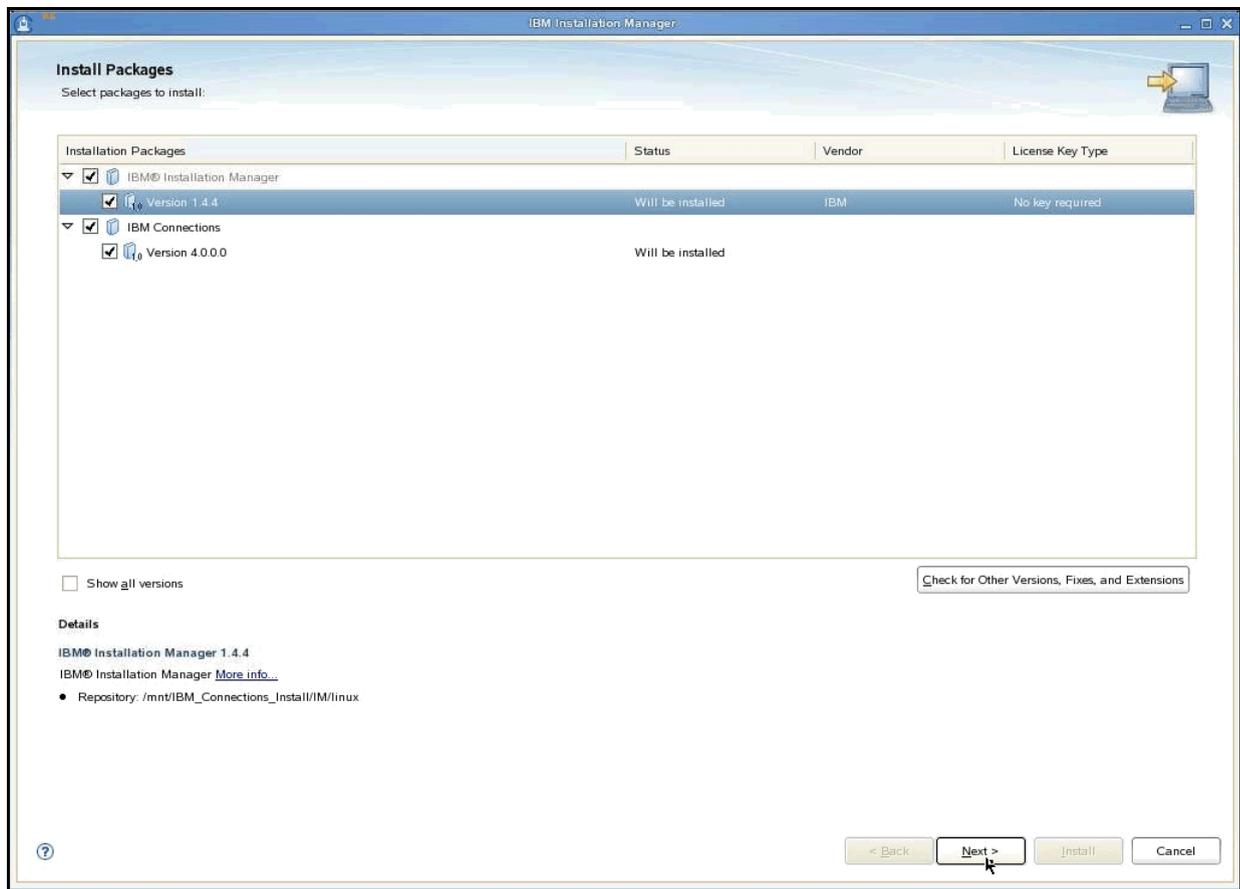


Figure 173. IBM Installation Manager: Install Packages

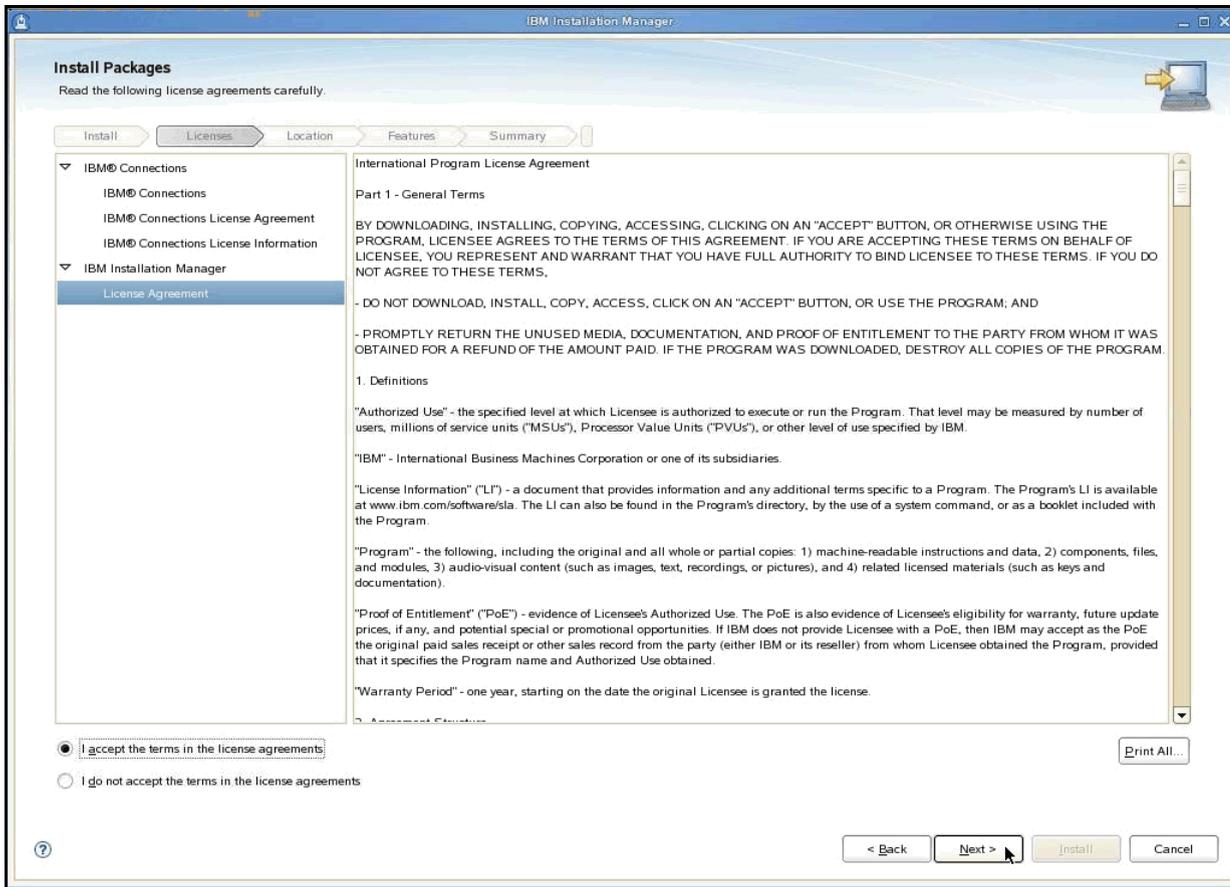
5. Accept the terms in the license agreement and click **Next**.

Figure 174. IBM Installation Manager: License agreement

6. Select a location for the shared resources directory and a location for Installation Manager and click **Next**.

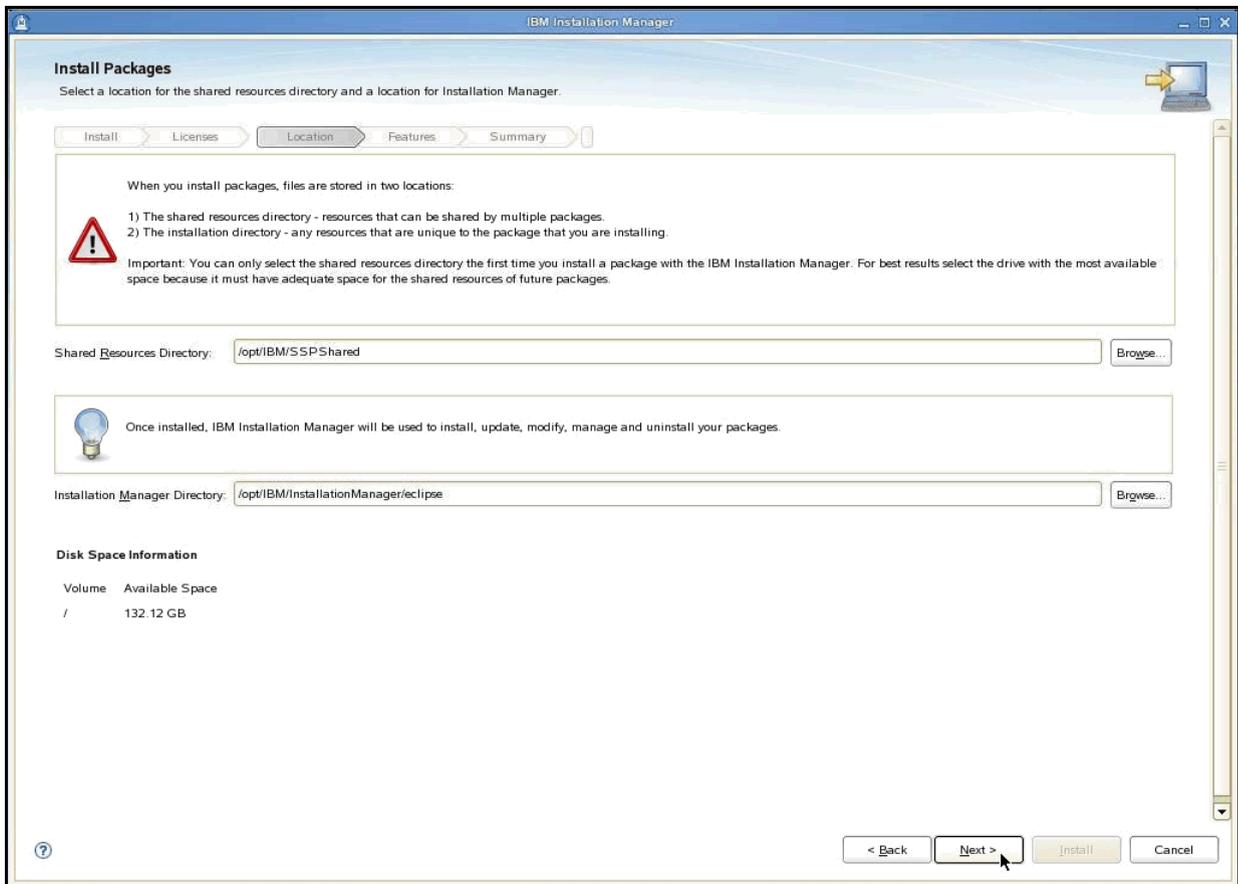


Figure 175. IBM Installation Manager: Locations

7. Select Create a new package group and click **Next**.

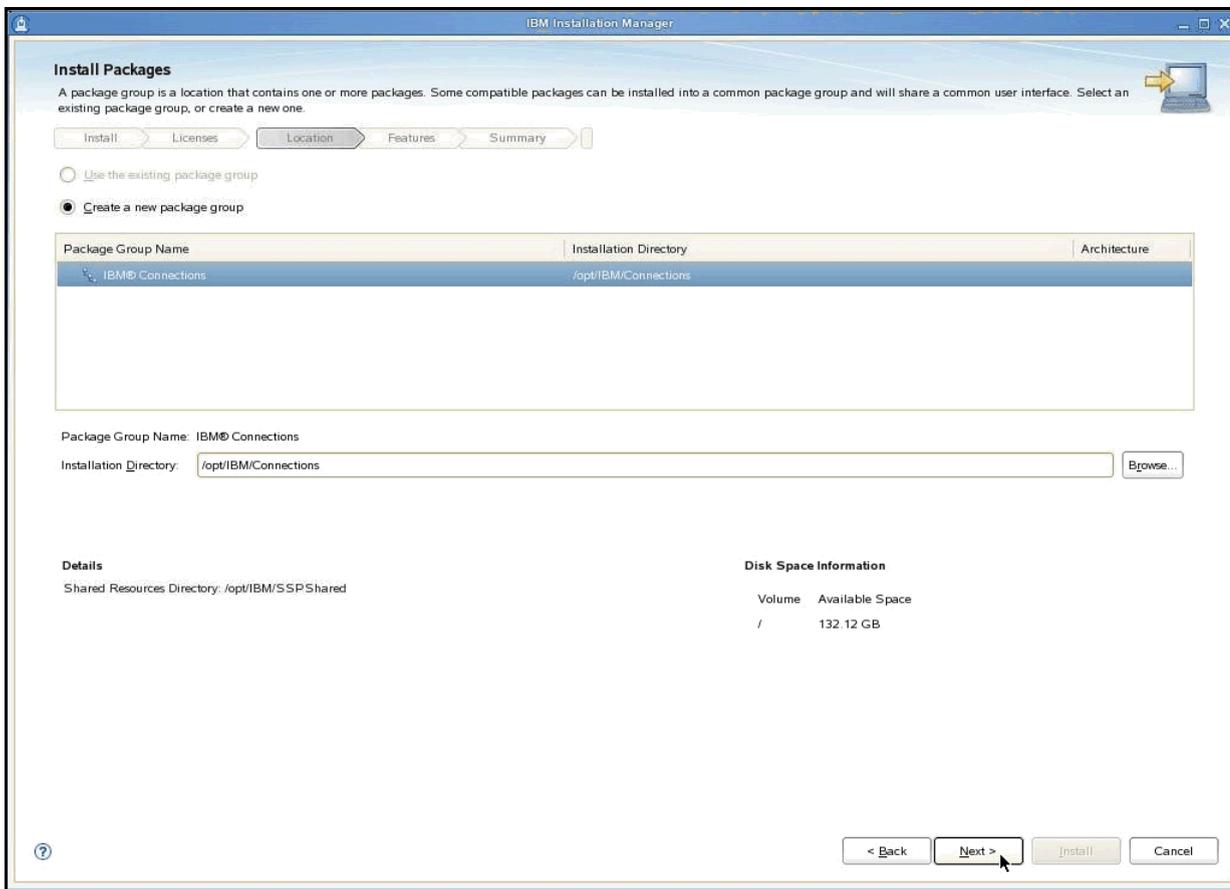


Figure 176. IBM Installation Manager: Package groups

8. Select the features that you want to install.

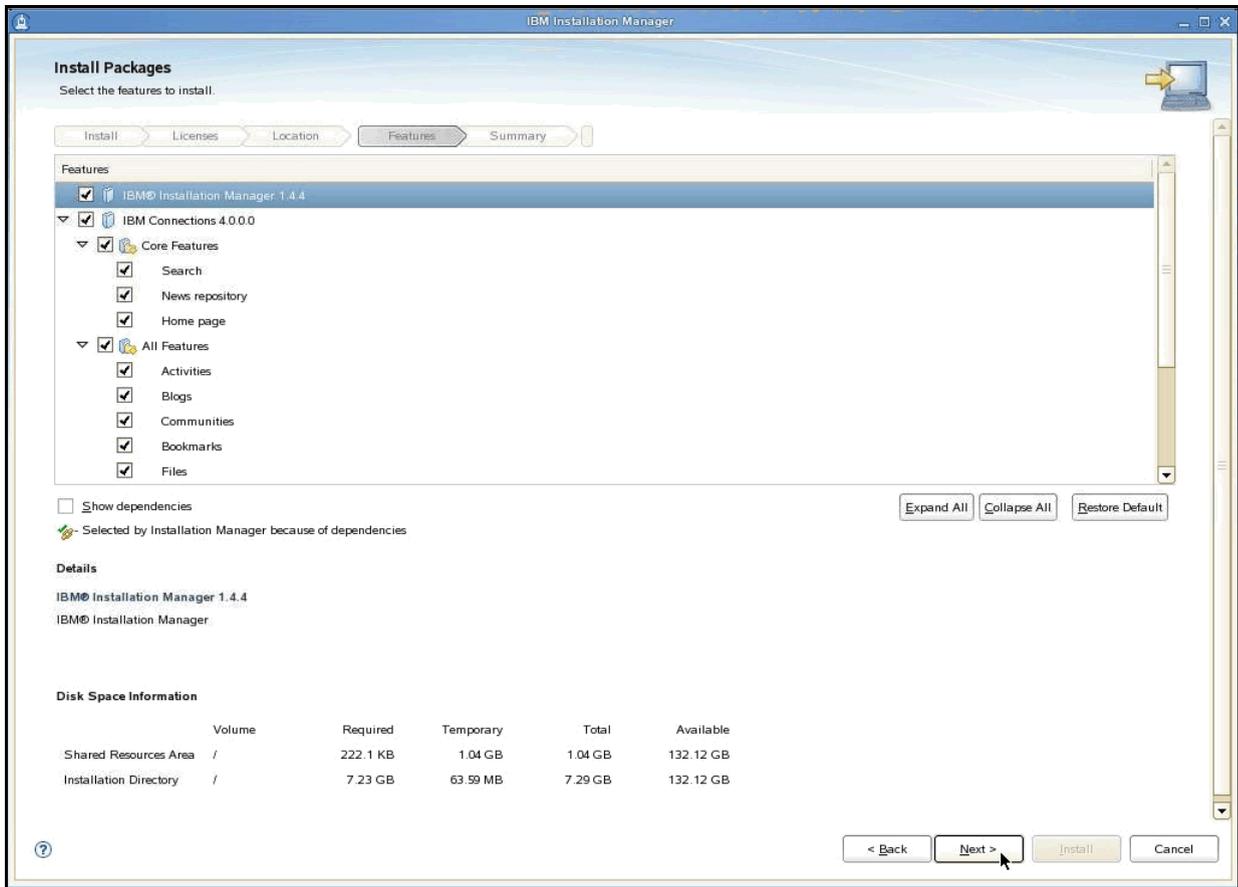


Figure 177. IBM Installation Manager: Features (1 of 2)

9. Here, the user chose not to install Metrics. Click **Next**.

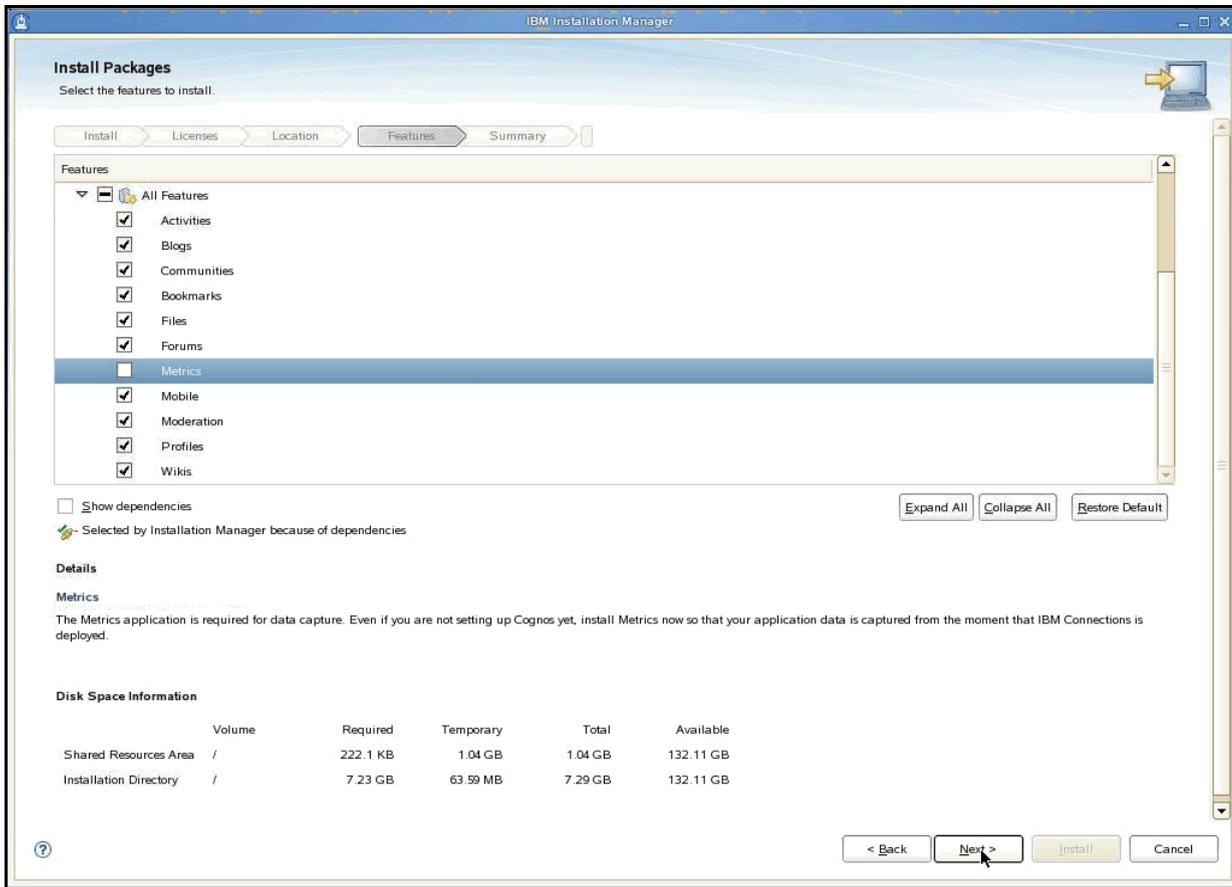


Figure 178. IBM Installation Manager: Features (2 of 2)

The SSL certificate validation begins.

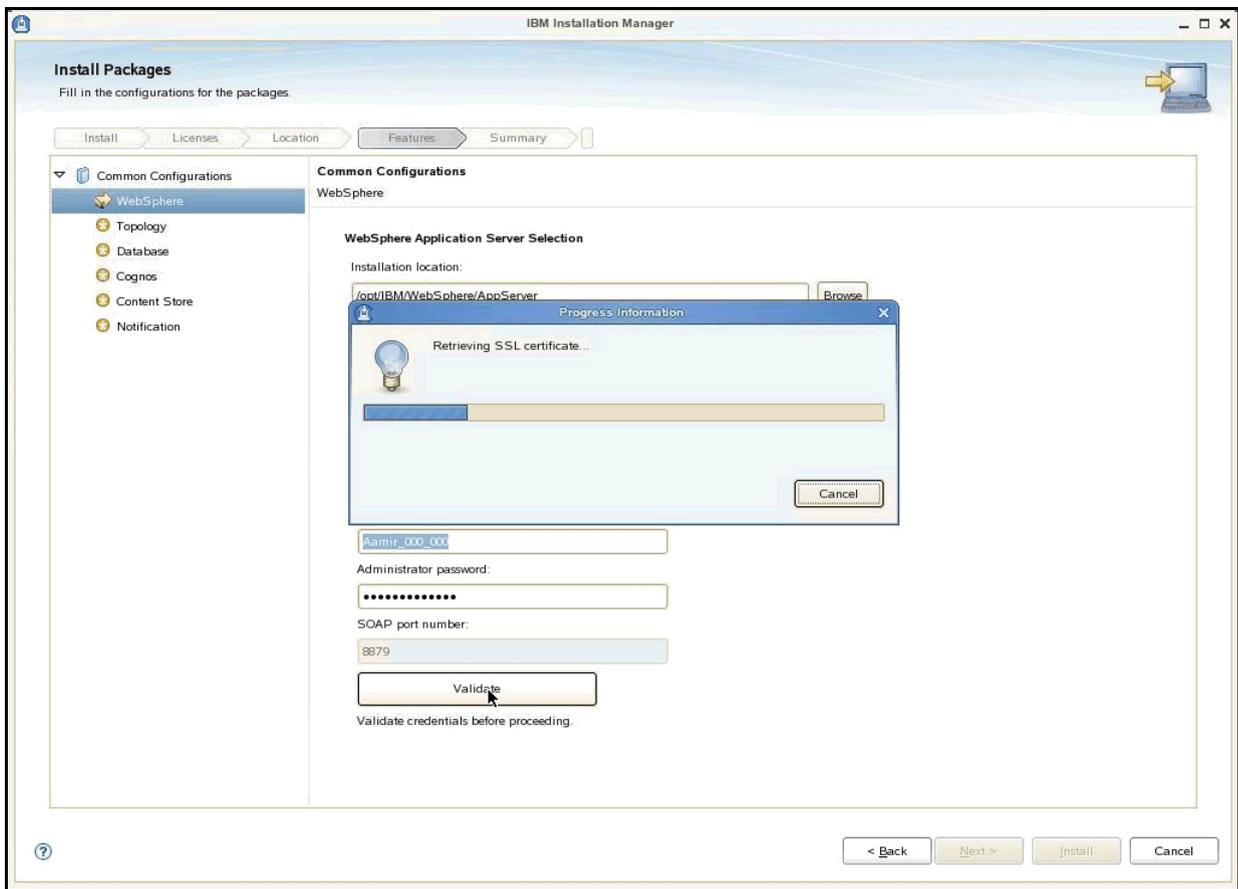


Figure 179. IBM Installation Manager: SSL certificate validation

10. Click **OK** in the information dialog for the SSL validation.

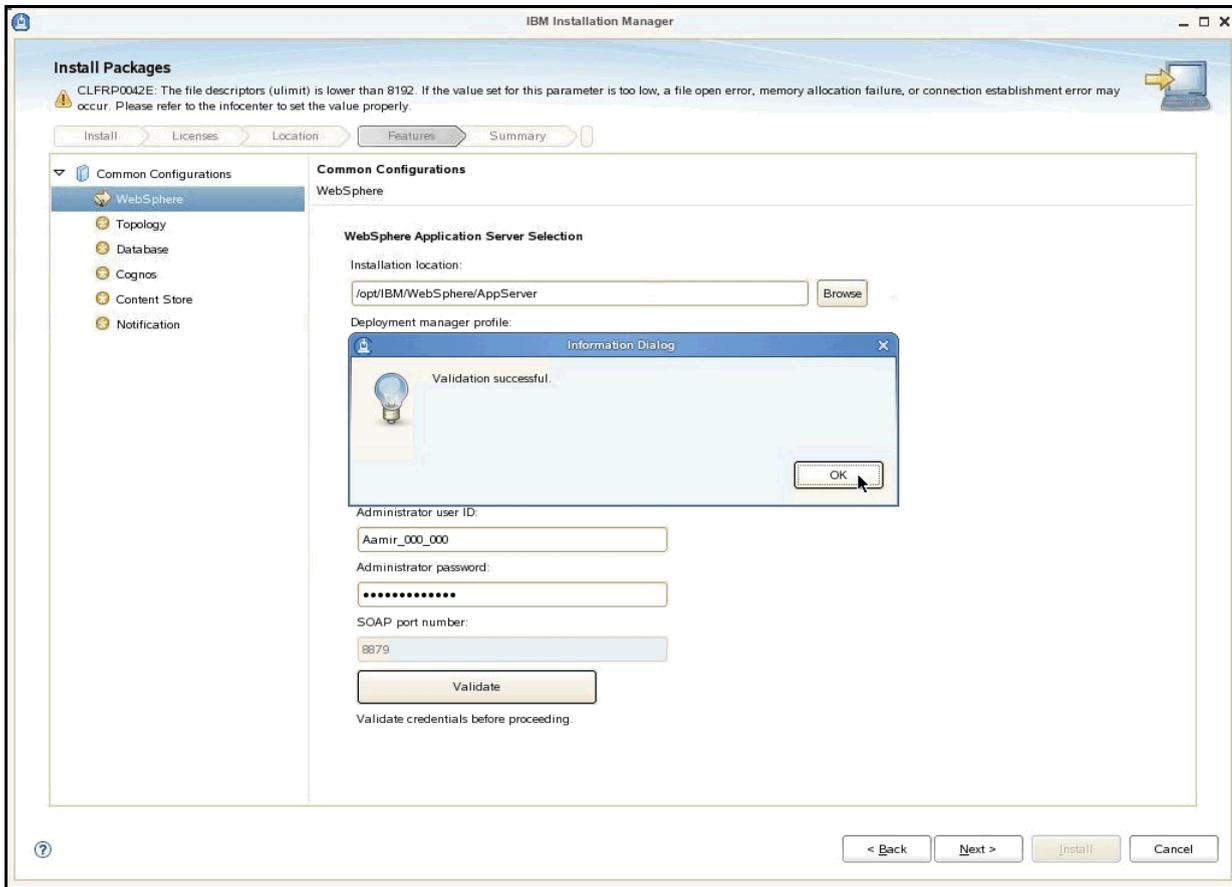


Figure 180. IBM Installation Manager: SSL certificate validation successful

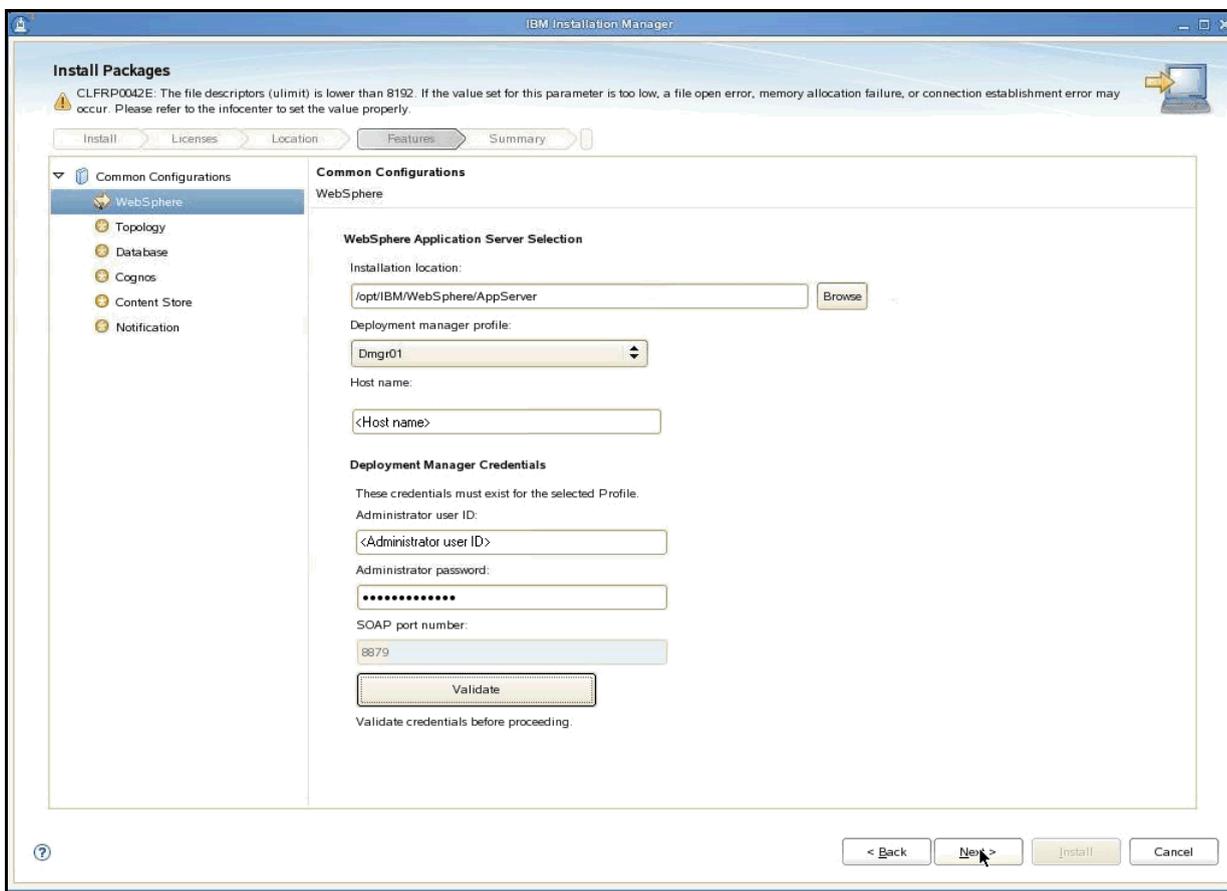
11. Click **Next**.

Figure 181. IBM Installation Manager: Credentials validation

12. Click **Next** again.

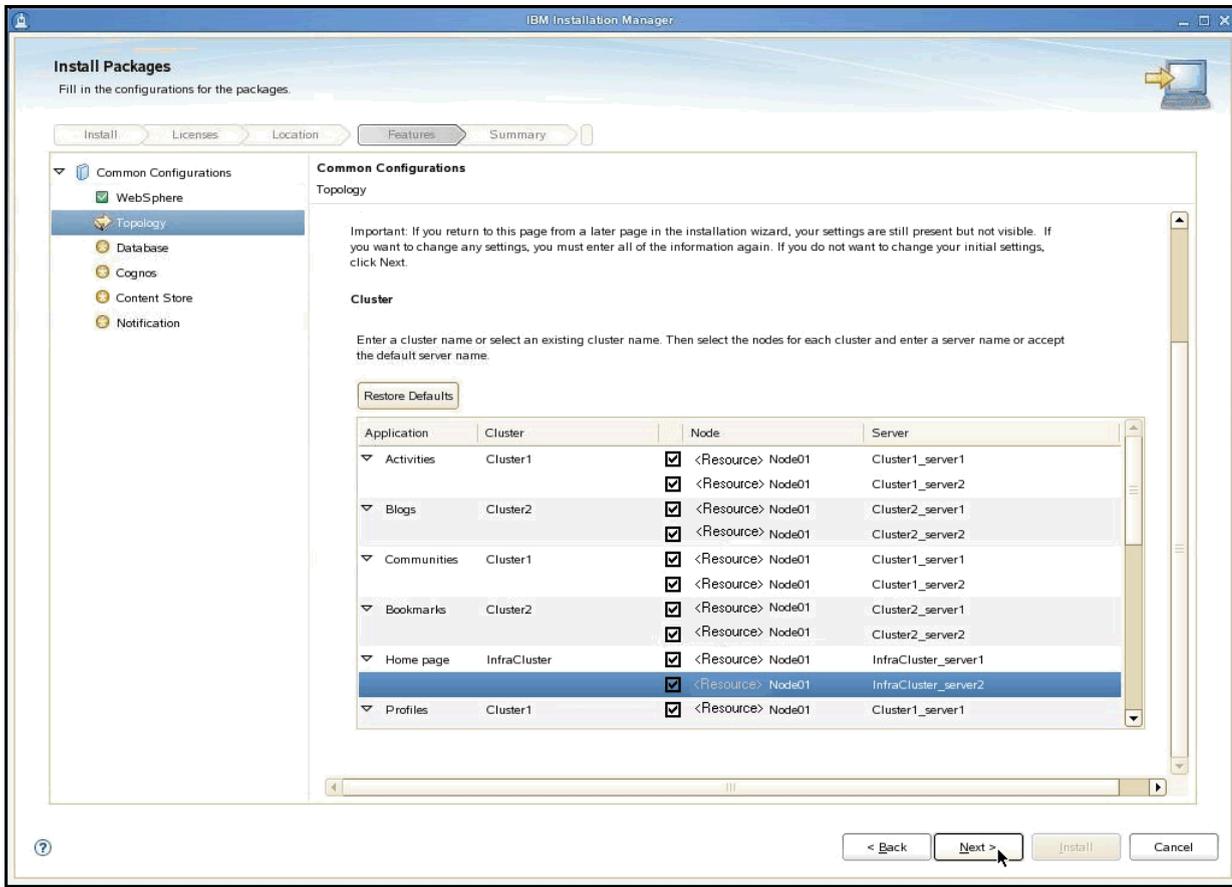


Figure 182. IBM Installation Manager: Common Configurations

The LSCONN database validation begins.

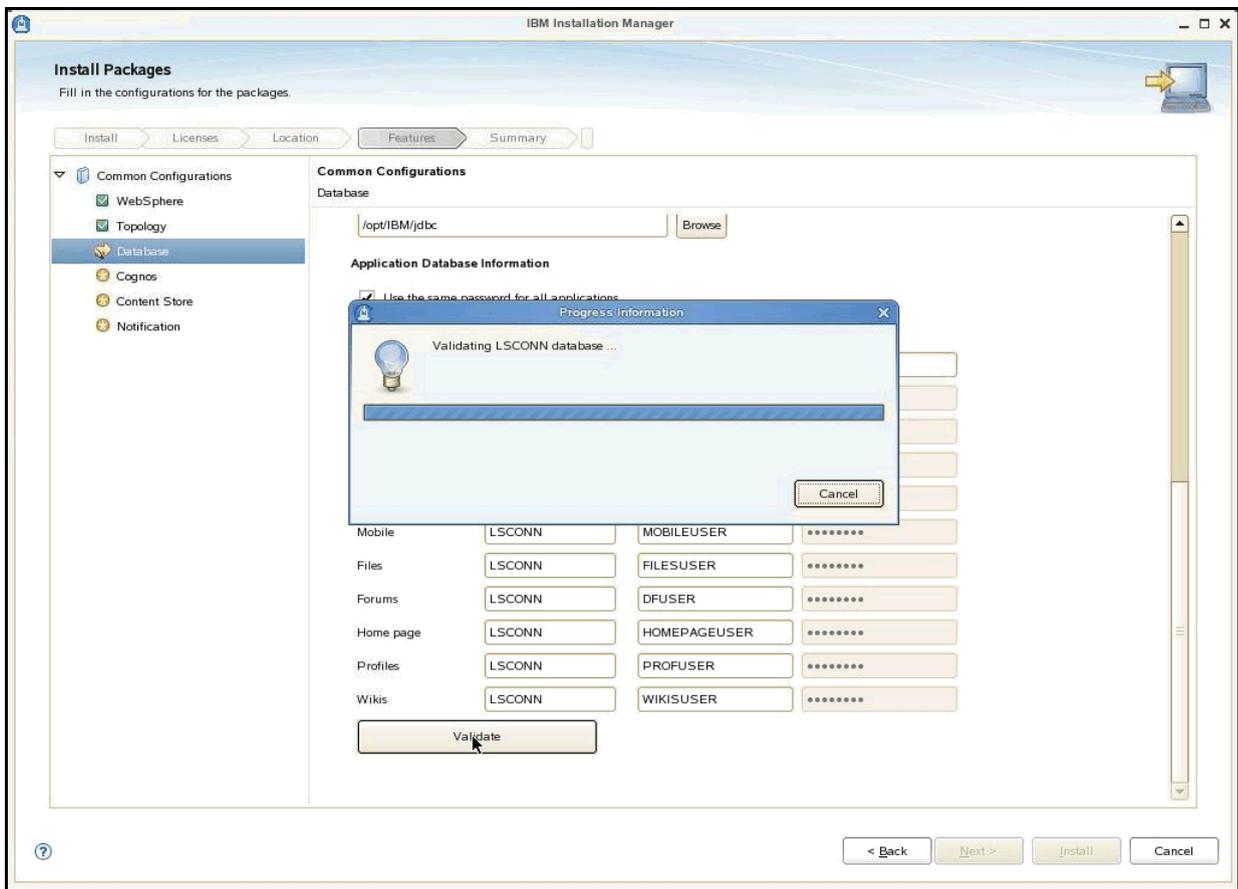


Figure 183. IBM Installation Manager: LSCONN database validation

13. Click **OK** in the information dialog for the LSCONN database validation.

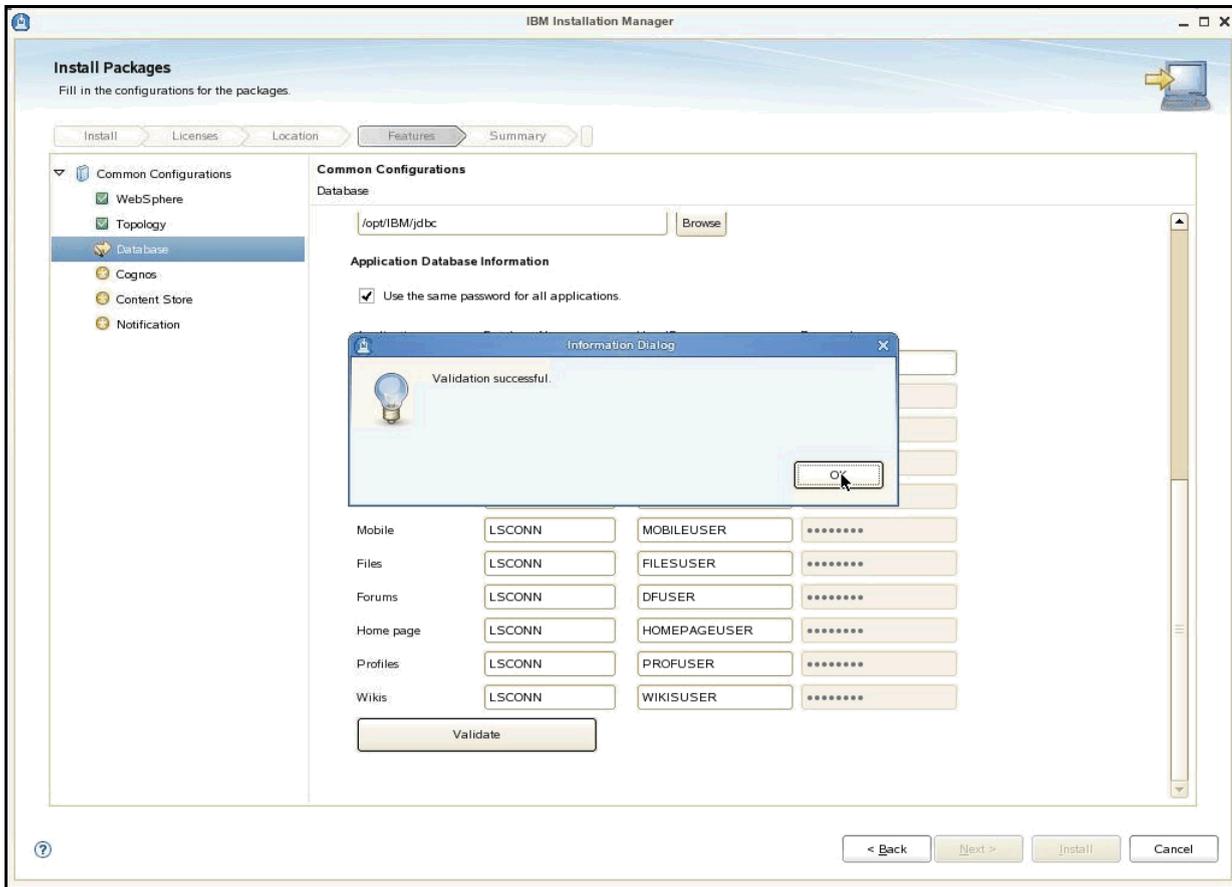


Figure 184. IBM Installation Manager: LSCONN database validation successful

14. Click **Next**.

The screenshot shows the IBM Installation Manager interface for configuring application databases. The 'Common Configurations' section is active, and the 'Application Database Information' sub-section is expanded. A table lists various applications and their database configurations. The 'Next' button at the bottom right is highlighted with a mouse cursor.

Application	Database Name	User ID	Password
Activities	LSCONN	QAUSER	*****
Blogs	LSCONN	BLOGSUSER	*****
Communities	LSCONN	SNCOMMUSER	*****
Bookmarks	LSCONN	DOGEARUSER	*****
Metrics	LSCONN	METRICSUSER	*****
Mobile	LSCONN	MOBILEUSER	*****
Files	LSCONN	FILESUSER	*****
Forums	LSCONN	DFUSER	*****
Home page	LSCONN	HOMEPAGEUSER	*****
Profiles	LSCONN	PROFUSER	*****
Wikis	LSCONN	WIKISUSER	*****

Buttons at the bottom: < Back, **Next**, Install, Cancel

Figure 185. IBM Installation Manager: Application information

15. Click **Next** again.

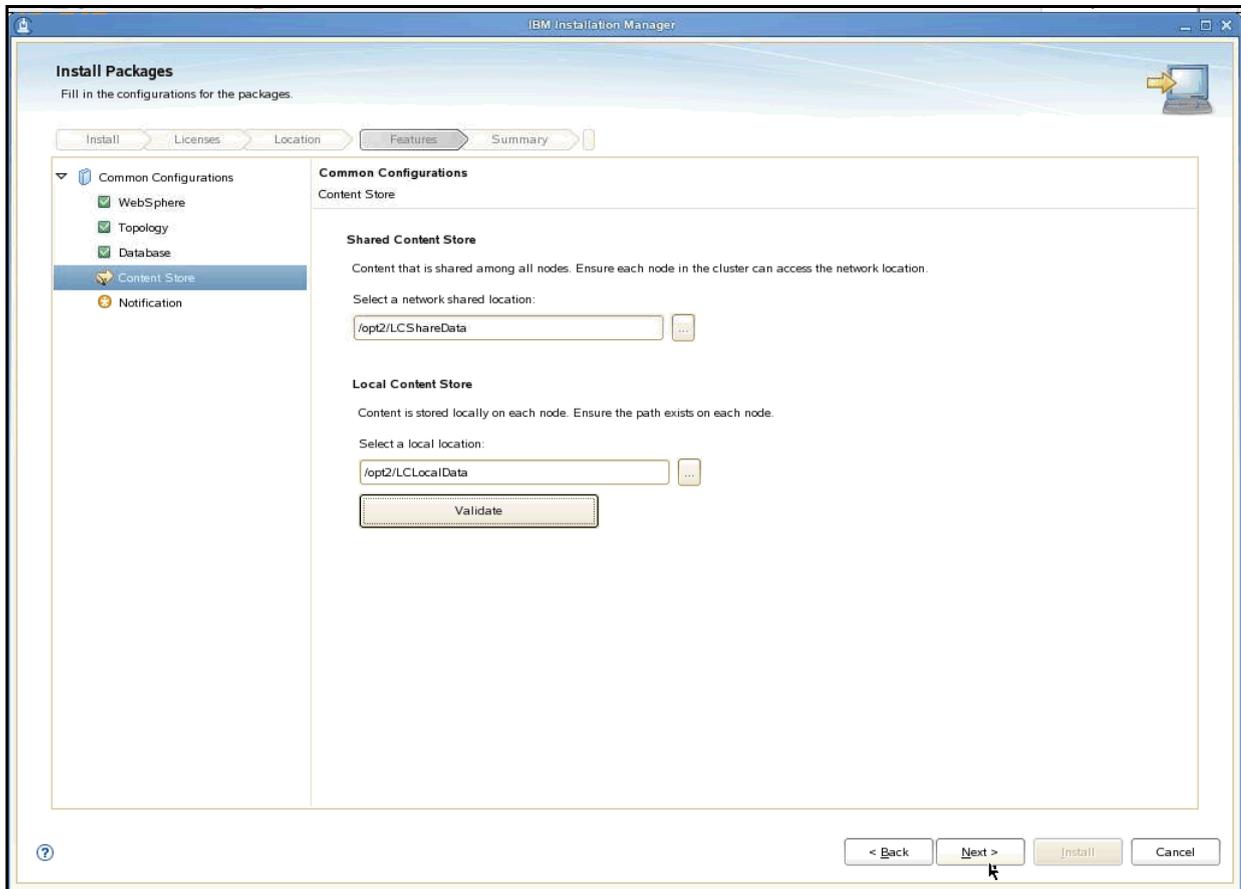


Figure 186. IBM Installation Manager: Content store

16. In the Notifications screen, click **None**.

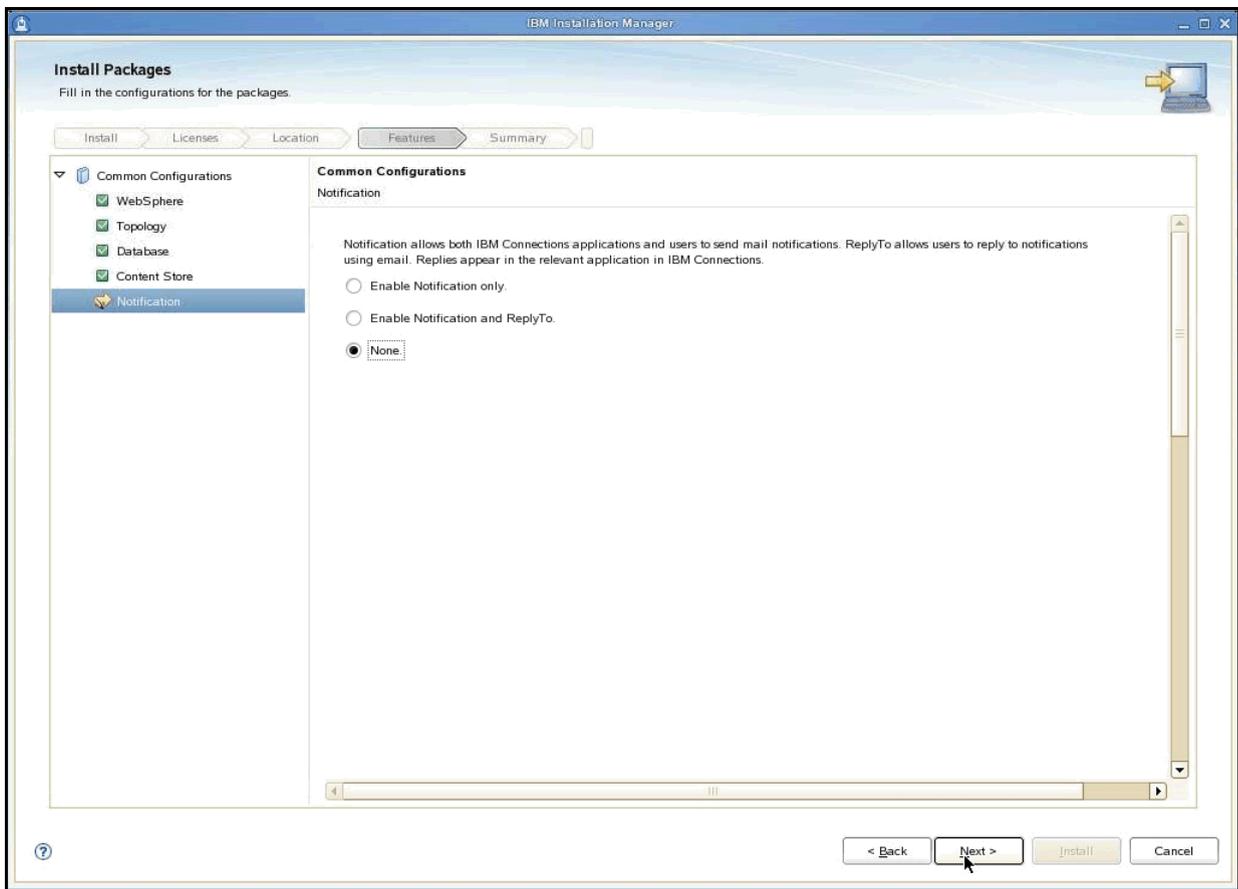


Figure 187. IBM Installation Manager: Notification

17. Review the summary information and click **Install**.

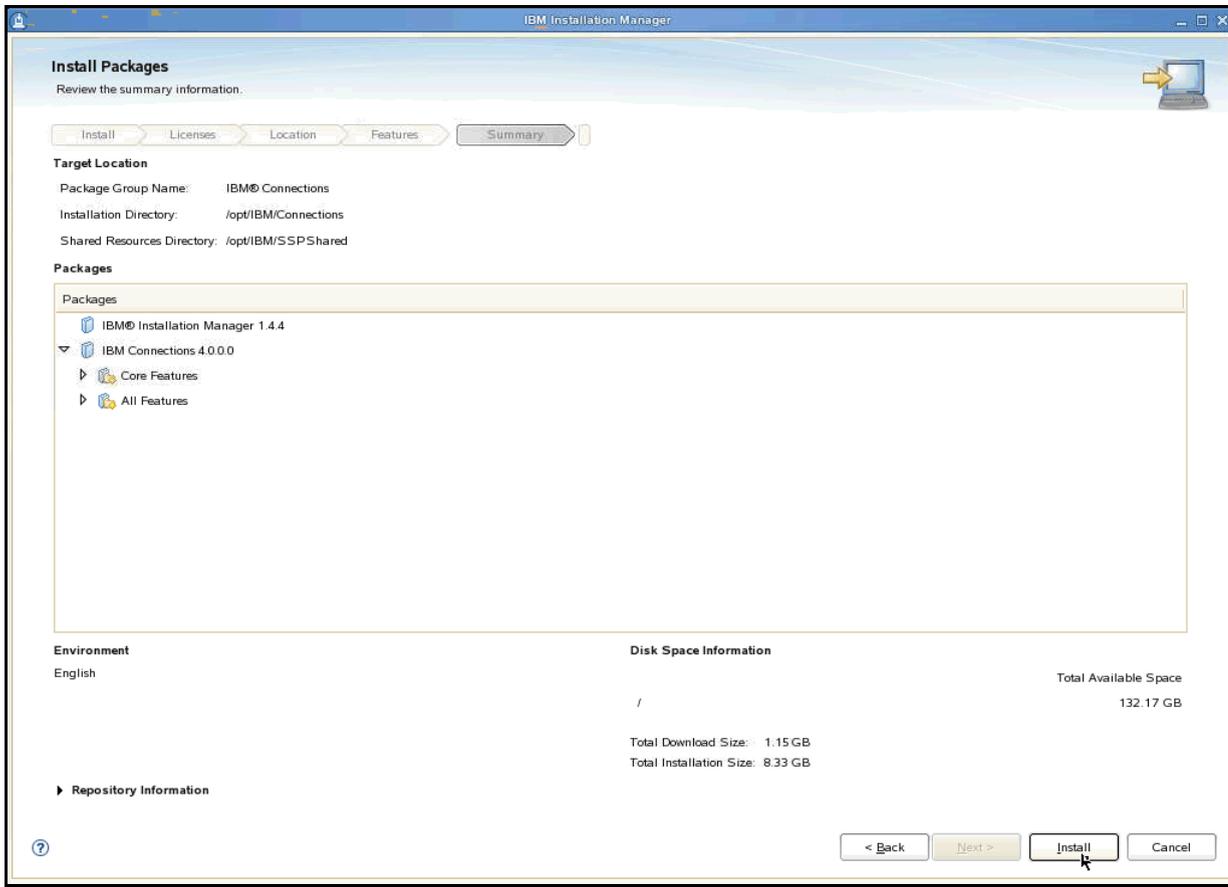


Figure 188. IBM Installation Manager: Summary information

About one hour later, you get this successful installation message.

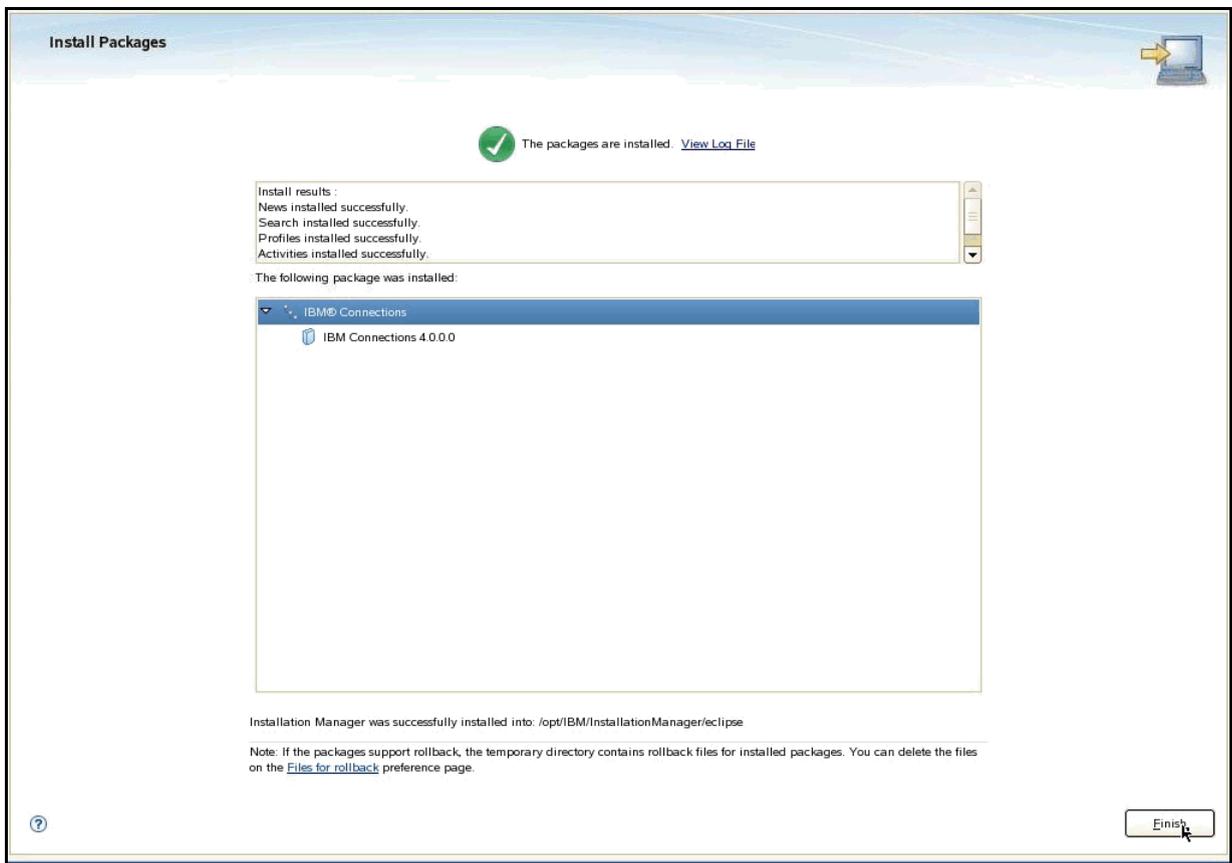


Figure 189. IBM Installation Manager: Installation successful

2. Post-installation

Import configuration

- ___ 1. Copy the migration directory that you backed up from your 3.0.1 deployment to the `connections_root` directory in your 4.0 deployment.
- ___ 2. Import your 3.0.1 data. Open a command prompt, change to the migration directory on the Deployment Manager node in your 4.0 deployment, and run the following commands:

```
./migration.sh lc-import  
-DDMuserid=dm_admin  
-DDMPassword=dm_password
```

Post Configuration

Map all application to IHS

1. Map applications to web server; take activities, for example. To do so, go to **Applications > Application Types**, and click **WebSphere enterprise applications**.

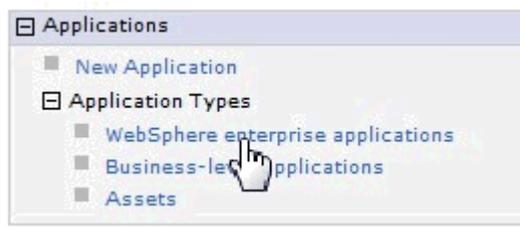


Figure 190. Applications > Application Types > WebSphere enterprise applications

2. Click **Activities**.



Figure 191. Activities

3. Under Configuration tab > Modules, click **Manage Modules**.

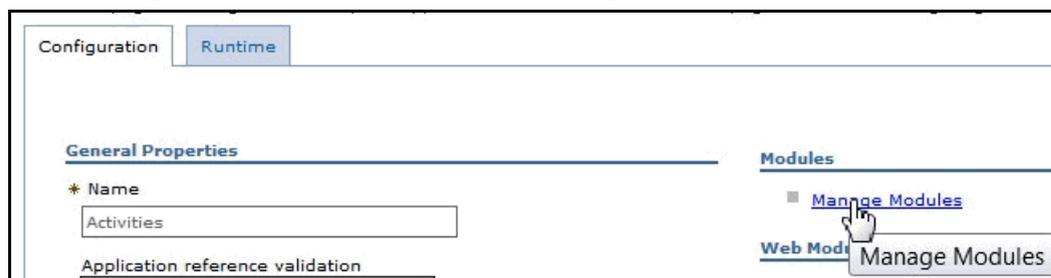


Figure 192. Manage Modules

4. Select all modules. Click the Select All icon.



Figure 193. Select all modules

Notice that its previous server is Cluster1.

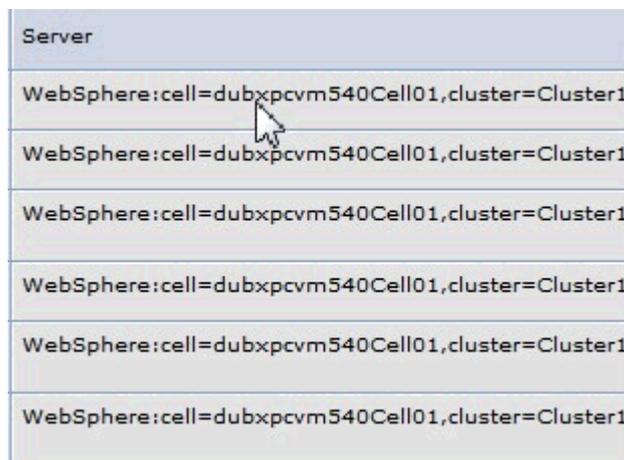


Figure 194. Server: Cluster1

- ___ 5. Press **Ctrl** to select both Cluster1 and webserver1. Click **Apply**.

routed through.

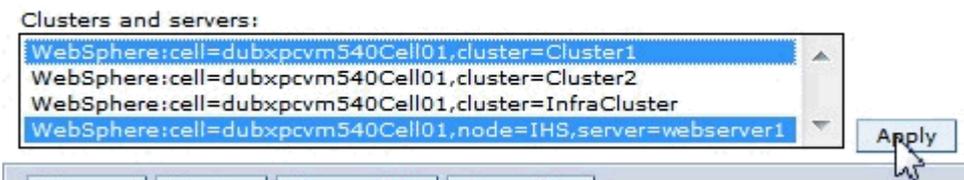


Figure 195. Clusters and servers

- ___ 6. Verify that all modules are mapped to both Cluster1 and webserver1.

Module Type	Server
EJB Module	WebSphere:cell=dubxpcvm540Cell01,node=IHS,server=webserver1 WebSphere:cell=dubxpcvm540Cell01,cluster=Cluster1
Web Module	WebSphere:cell=dubxpcvm540Cell01,node=IHS,server=webserver1 WebSphere:cell=dubxpcvm540Cell01,cluster=Cluster1
Web Module	WebSphere:cell=dubxpcvm540Cell01,node=IHS,server=webserver1 WebSphere:cell=dubxpcvm540Cell01,cluster=Cluster1

Figure 196. Module Type: Server



Note

Repeat these steps for all applications from Activities to Wikis.

Modify LCC.xml



Information

For more detailed information about how to modify LCC.xml, see http://www-10.lotus.com/ldd/lcwiki.nsf/xpDocViewer.xsp?lookupName=IBM+Connections+4.0+documentation#action=openDocument&res_title=Updating_web_addresses_in_IBM_HTTP_Server_ic40&content=pdcontent.

1. Change the service URL as follows:

```
<sloc:serviceReference acf_config_file="acf-config-nf.xml" bootstrapHost=""
bootstrapPort="" clusterName="Cluster1" enabled="true"
person_card_service_name_js_eval="generalrs.label_personcard_activitieslink"
person_card_service_url_pattern="/service/html/mainpage#dashboard%2Cmyactivi
ties%2Cuserid%3D{userid}%2Cname%3D{displayName}" serviceName="activities"
ssl_enabled="true">
<sloc:href>
    <sloc:hrefPathPrefix>/activities</sloc:hrefPathPrefix>
    <sloc:static href="http://connections.example.com"
ssl_href="https://connections.example.com"/>
    <sloc:interService href="https://connections.example.com"/>
</sloc:href>
</sloc:serviceReference>
```

2. Sync Nodes and restart servers.

Configure Search variable

1. Add "/opt/IBM/Connections/stellent/dcs/oiexport" to your PATH variable in .profile for the root user.

Either add `export LD_LIBRARY_PATH=/opt/IBM/Connections/stellent/dcs/oiexport` to `/opt/IBM/WebSphere/AppServer/bin/setupCmdLine.sh` and run `./setupCmdLine.sh` before you start the nodes,
or add `export LD_LIBRARY_PATH=/opt/IBM/Connections/stellent/dcs/oiexport` and add the line to the PATH in `.profile`.

Configure Homepage administrator and moderator



Information

For more detailed information about how to configure a Homepage administrator, see http://www-10.lotus.com/ldd/lcwiki.nsf/xpDocViewer.xsp?lookupName=IBM+Connections+4.0+documentation#action=openDocument&res_title=Configuring_the_Home_page_administrator_ic40&content=pdcontent.

1. Go to **Enterprise Applications > Homepage > Security role to user/group mapping**, check admin and map an LDAP user as administrator for Homepage.

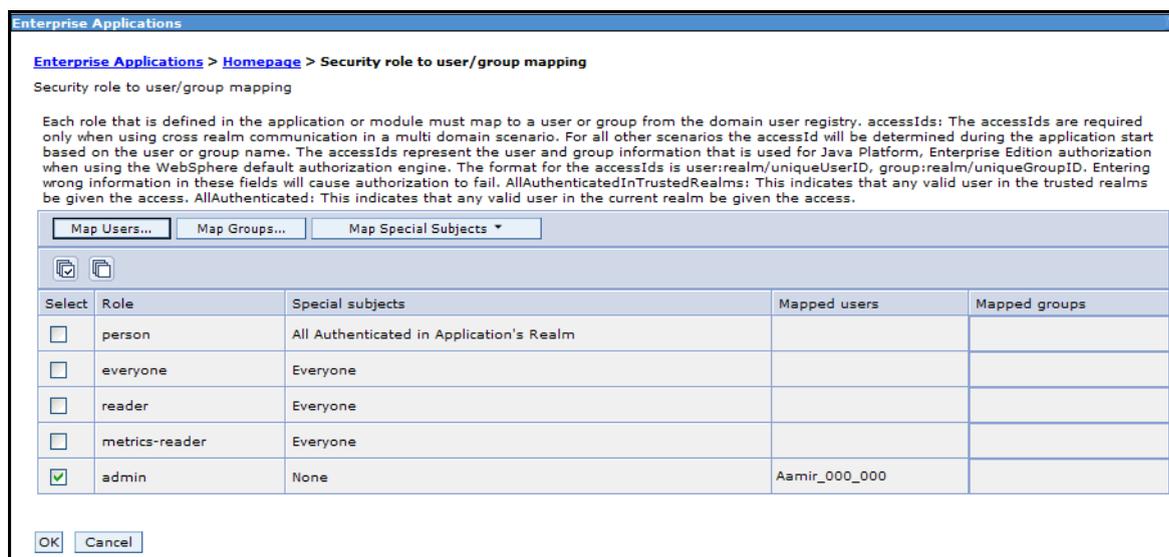


Figure 197. Enterprise Applications: Homepage

2. Click **OK** and then **Save**.



Information

For more detailed information about how to configure a moderator, see http://www-10.lotus.com/ldd/lcwiki.nsf/xpDocViewer.xsp?lookupName=IBM+Connections+4.0+documentation#action=openDocument&res_title=Configuring_Moderation_ic40&content=pdcontent.

1. Go to **Enterprise Applications > Homepage > Security role to user/group mapping**, check **global-moderator** and map an LDAP user as global moderator for Homepage.

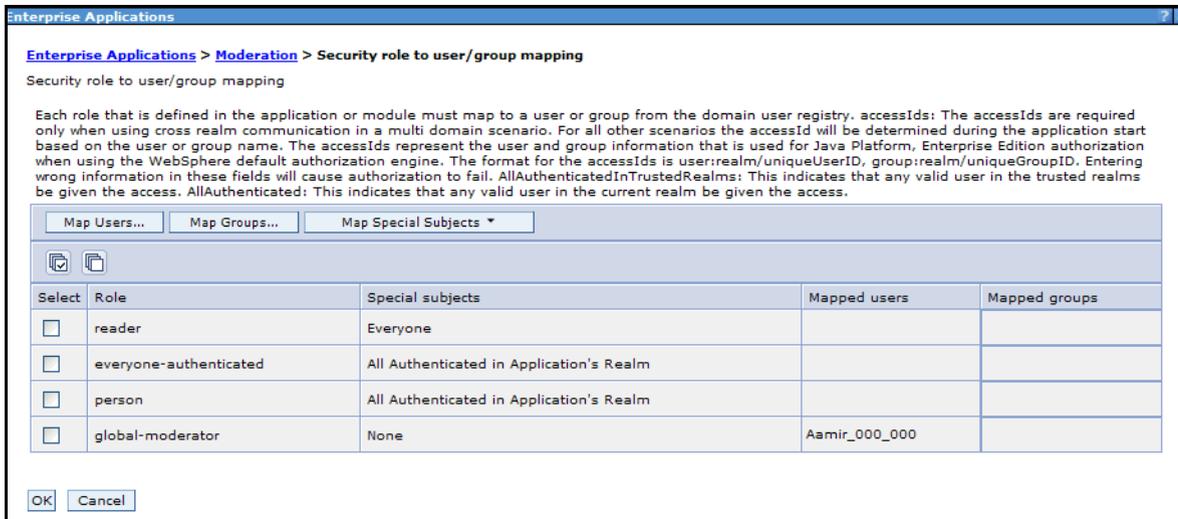


Figure 198. Enterprise Applications: Moderation

2. Click **OK** and then **Save**.
3. Sync nodes and restart servers.

Config SiteMinder+SPNEGO



Note

Open request to WTI team to asking help to configure Siteminder+SPNEGO on Siteminder policy server:

http://www-10.lotus.com/ldd/lcwiki.nsf/xpDocViewer.xsp?lookupName=IBM+Connections+4.0+documentation#action=openDocument&res_title=Enabling_single_signon_for_SiteMinder_with_SPNEGO_ic40&content=pdcontent.

1. Update `US_export_policy.jar` and `local_policy.jar` to both DM and Nodes.

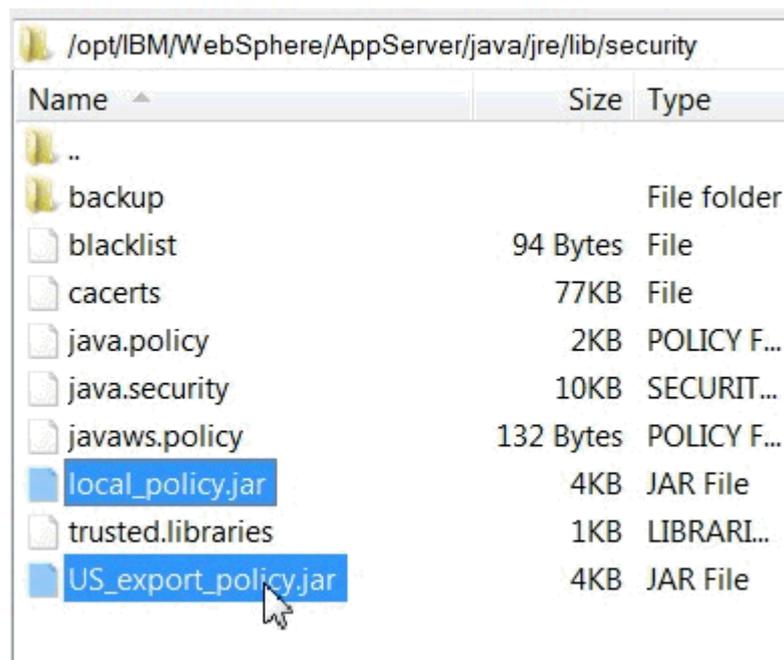


Figure 199. US and local policies files

2. Install Web Agent for IHS:



You can also install Web Agent for IHS by following the steps in this guide:

http://www-10.lotus.com/ldd/lcwiki.nsf/dx/Instructions_for_installing_and_configuring_the_6x_WebAgent_for_your_HTTP_server.

a. Run the following command to open the CA SiteMinder Web Agent.

```
#####:/software # ./nete-wa-6qmr6-cr007-rhel30.bin
Preparing to install...
Extracting the JRE from the installer archive...
Unpacking the JRE...
```

Figure 200. Command to open the CA SiteMinder Web Agent

b. In the introduction screen of the CA SiteMinder Web Agent, click **Next**.

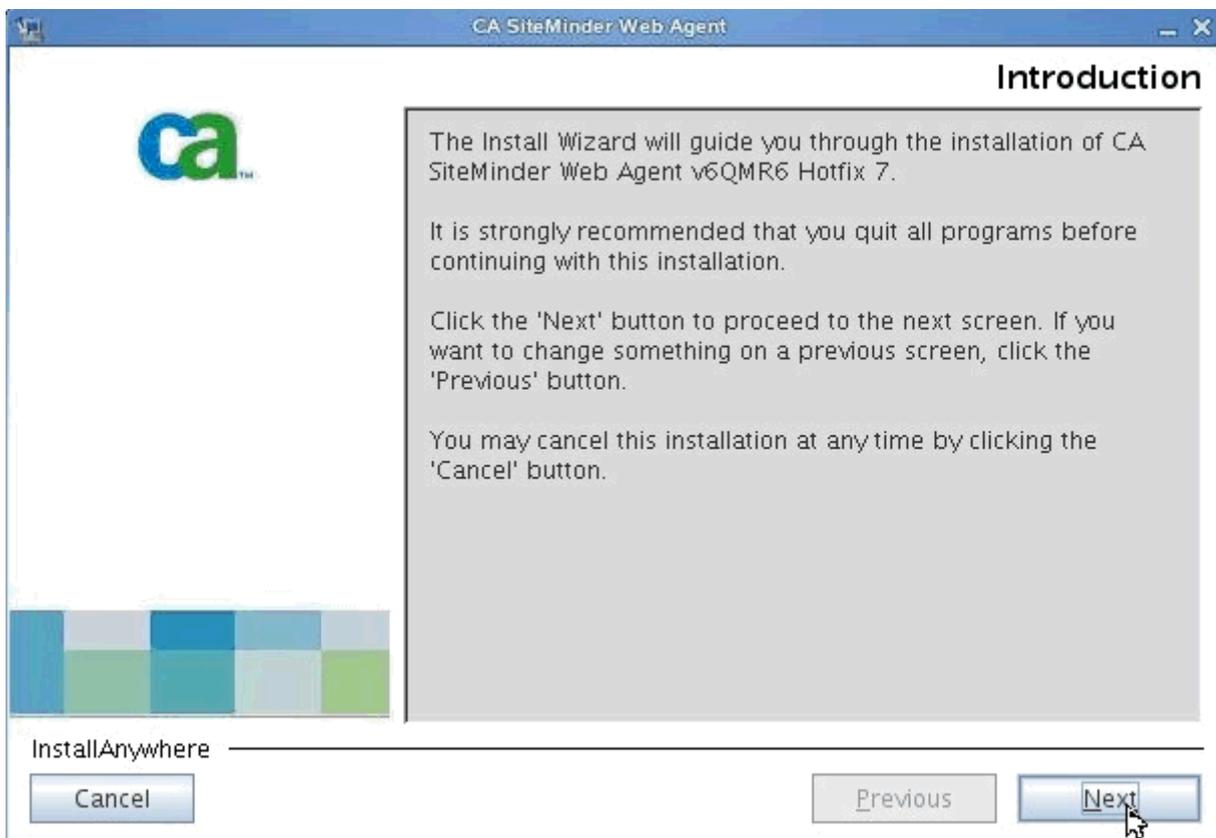


Figure 201. CA SiteMinder Web Agent: Introduction

- ___ c. Accept the license agreement and click **Next**.

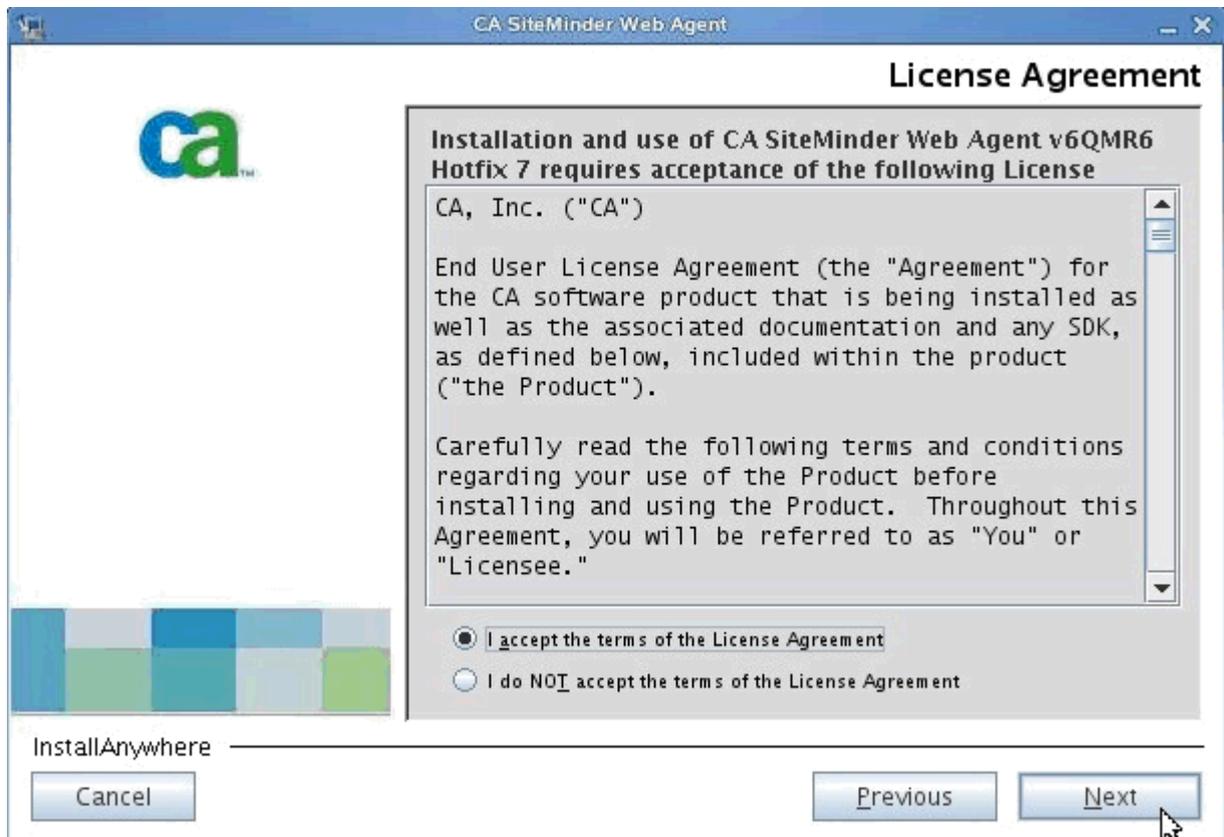


Figure 202. CA SiteMinder Web Agent: License Agreement

___ d. Read the information before continuing and click **Next**.

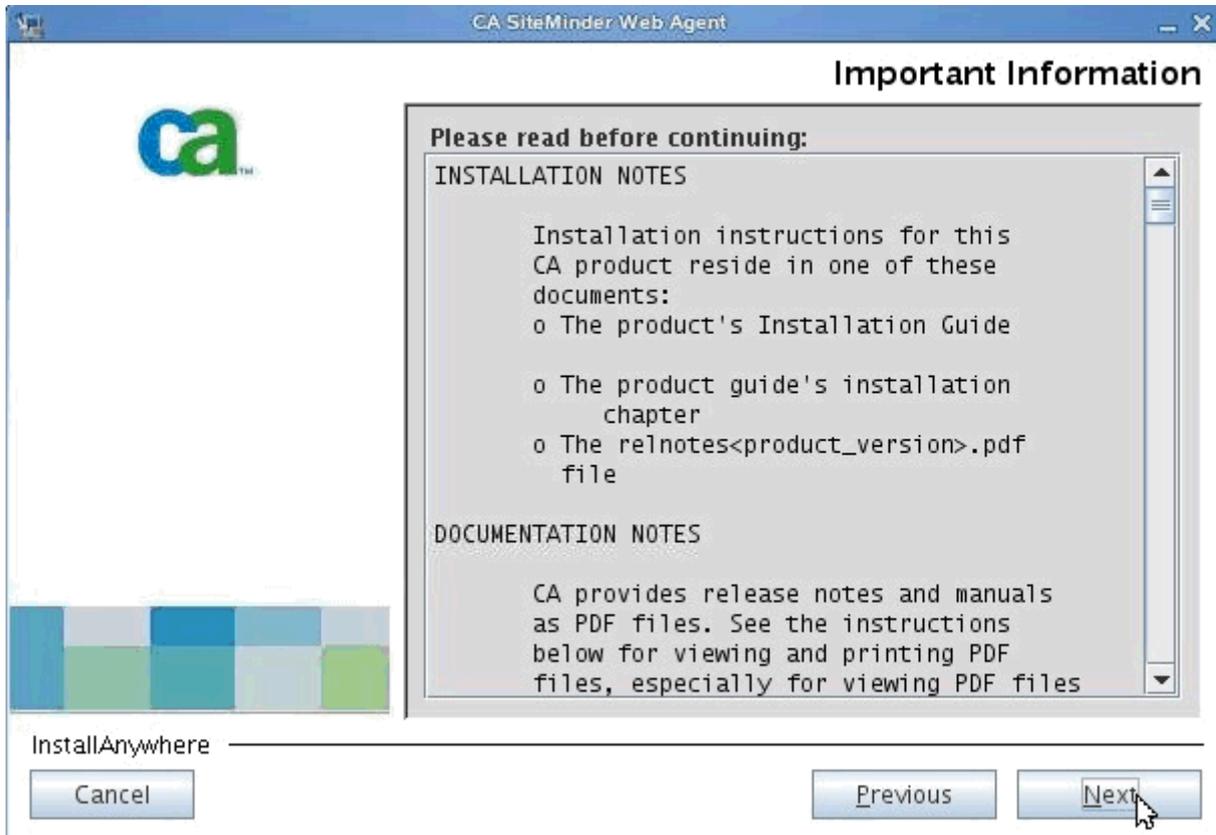


Figure 203. CA SiteMinder Web Agent: Important Information

- ___ e. Choose the location where you want to install the SiteMinder and click **Next**.

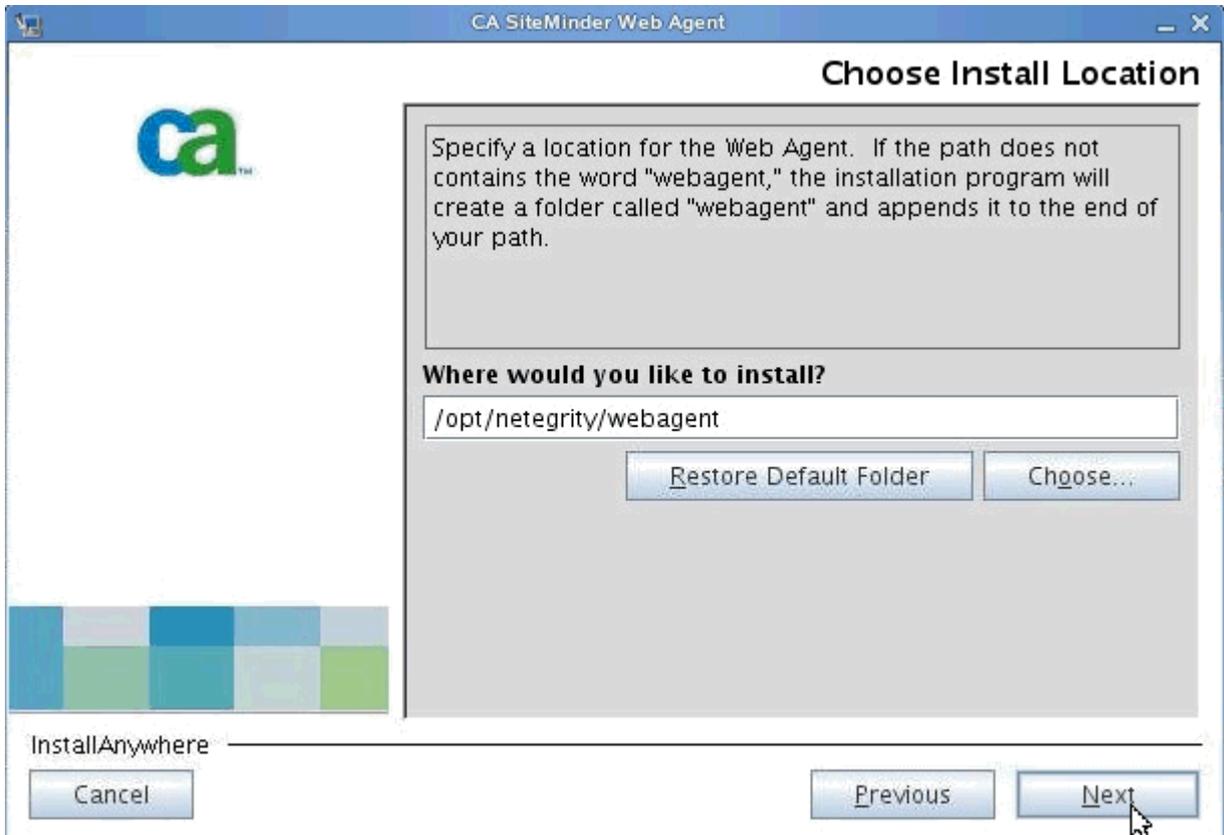


Figure 204. CA SiteMinder Web Agent: Choose Install Location

___ f. Review the pre-installation summary before continuing and click **Install**.

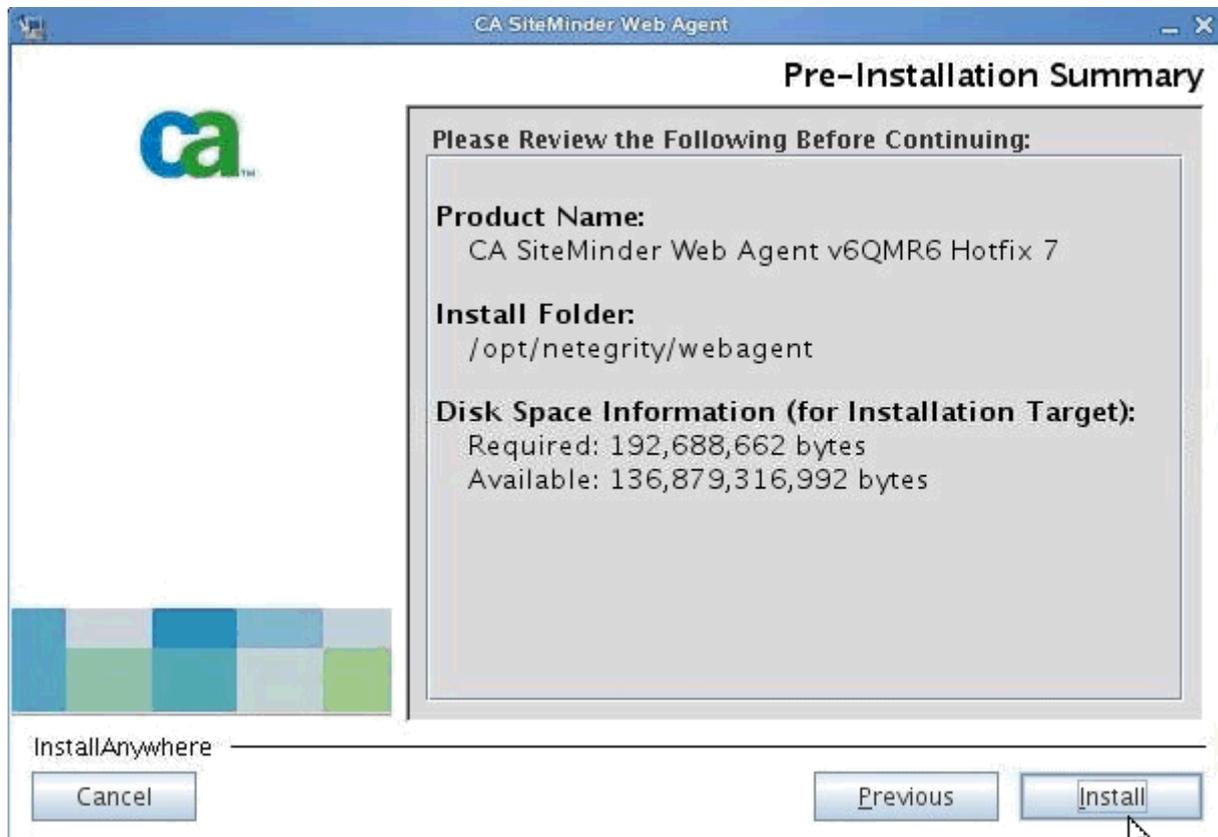


Figure 205. CA SiteMinder Web Agent: Pre-installation Summary

The installation begins.

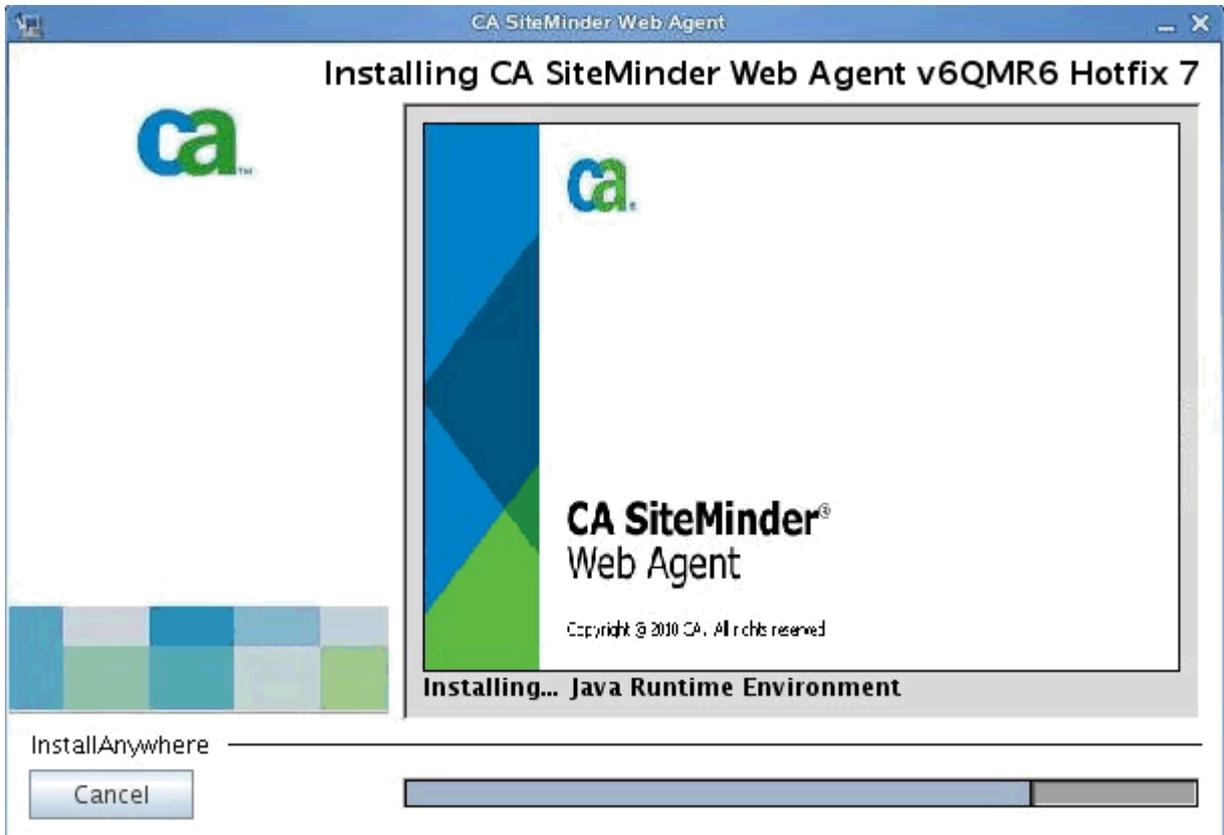


Figure 206. CA SiteMinder Web Agent: Installing CA SiteMinder Web Agent v6QMR6 Hotfix 7

- ___ g. When the installation is finished, click **Done**.

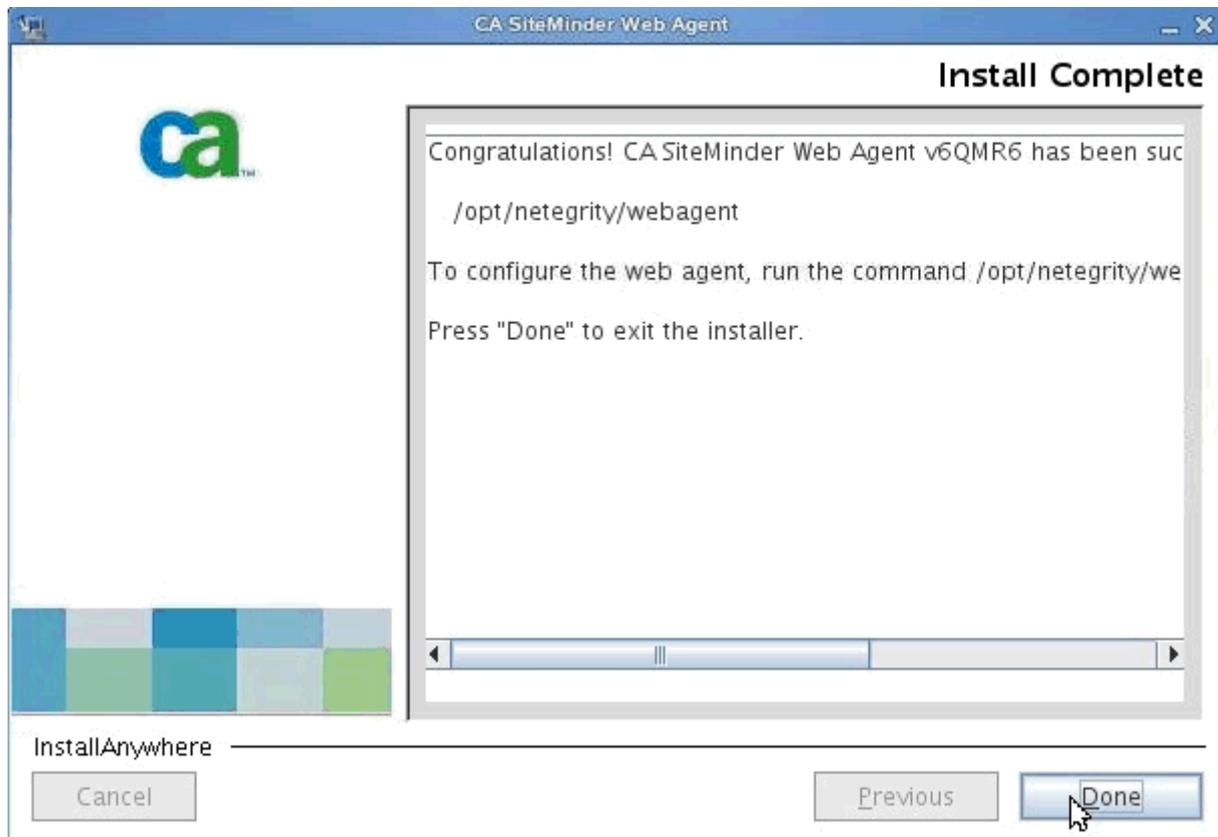


Figure 207. CA SiteMinder Web Agent: Installation Complete

- ___ 3. Configure environment variables.

```
:~/netegrity/webagent # ./nete wa env.sh
```

Figure 208. Environment variables command

- ___ a. Run the following command to start the CA SiteMinder Web Agent v6QMR6.

```
:/opt/netegrity/webagent # ./nete-wa-config.sh
```

Figure 209. Configuration command

- ___ b. In the host registration screen, select Yes, I would like to do Host Registration now and click **Next**.



Figure 210. CA SiteMinder Web Agent v6QMR6: Host Registration

___ c. Enter your admin user name and password and click **Next**.

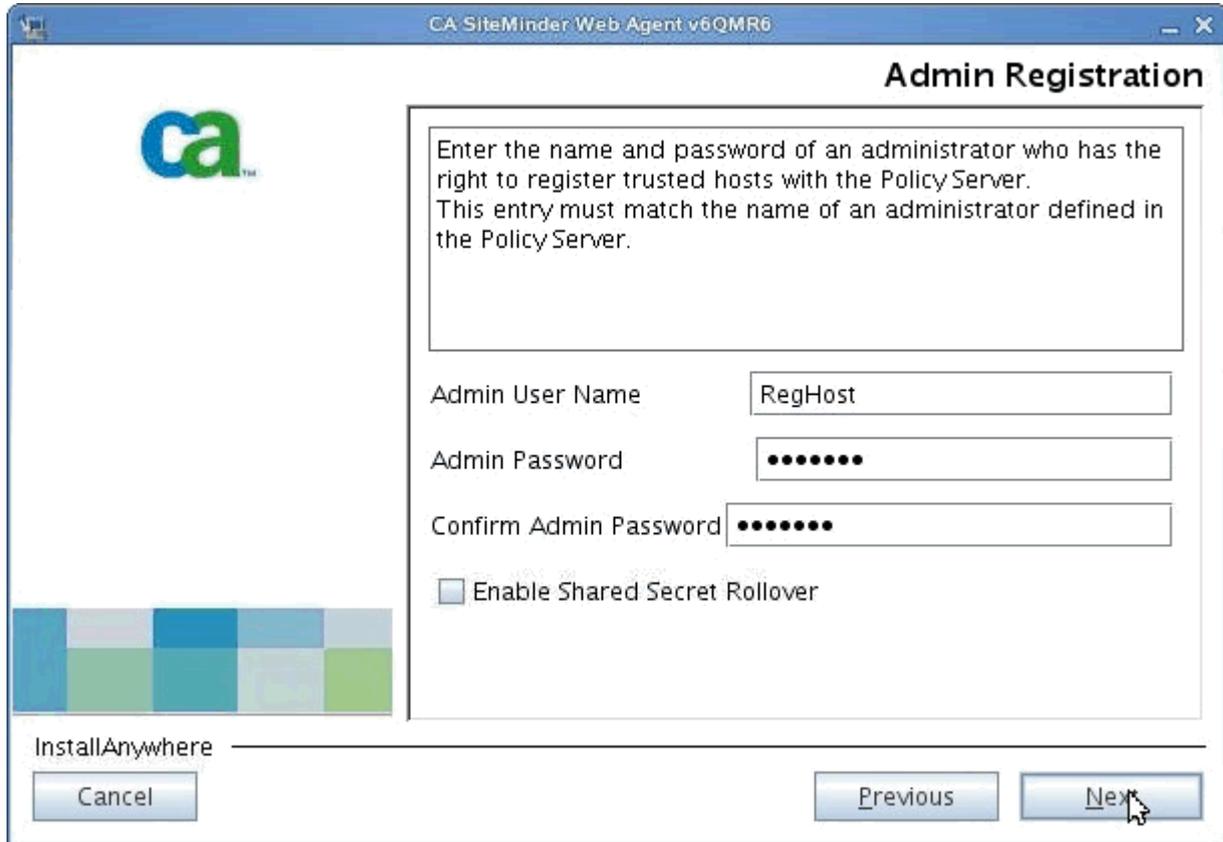


Figure 211. CA SiteMinder Web Agent v6QMR6: Admin Registration

- ___ d. Specify the name of the trusted host and the host configuration object and click **Next**.

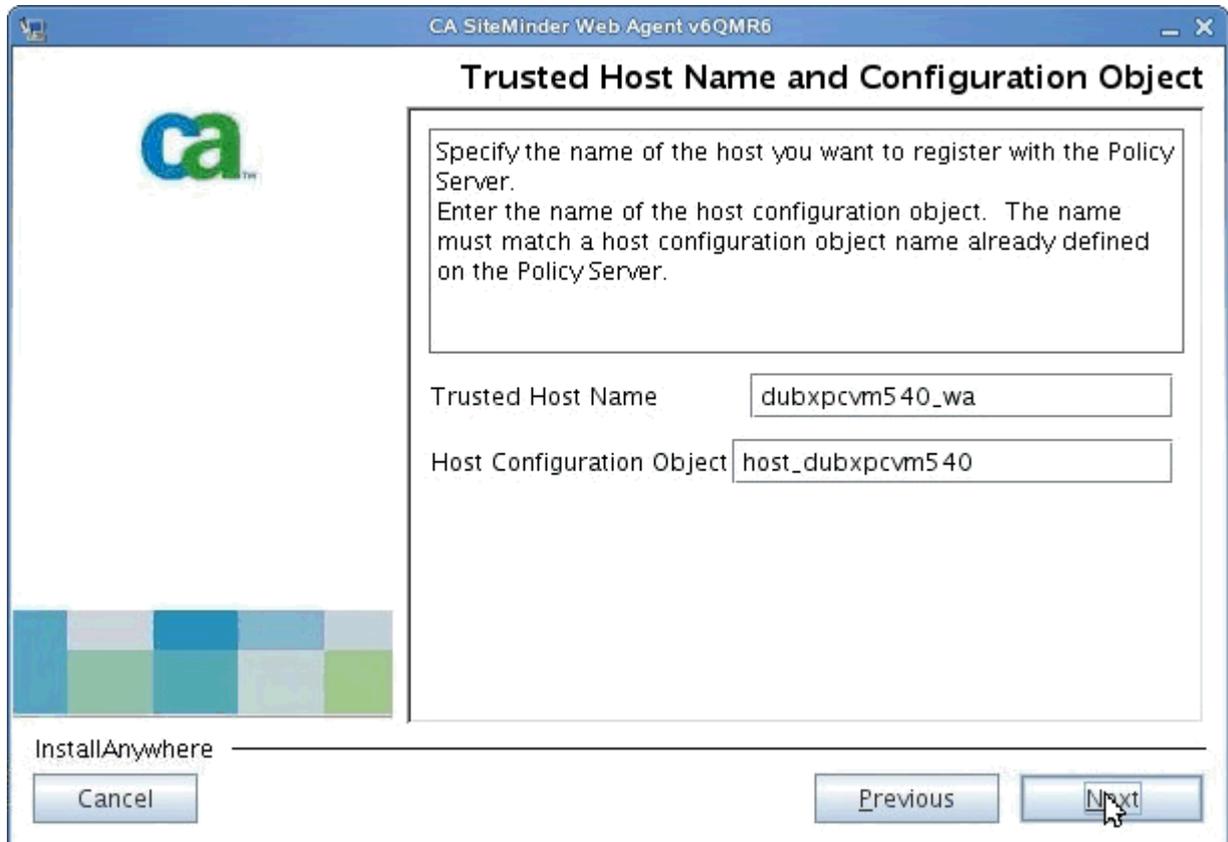


Figure 212. CA SiteMinder Web Agent v6QMR6: Trusted Host Name and Configuration Object

___ e. Select the policy server IP address and click **Next**.

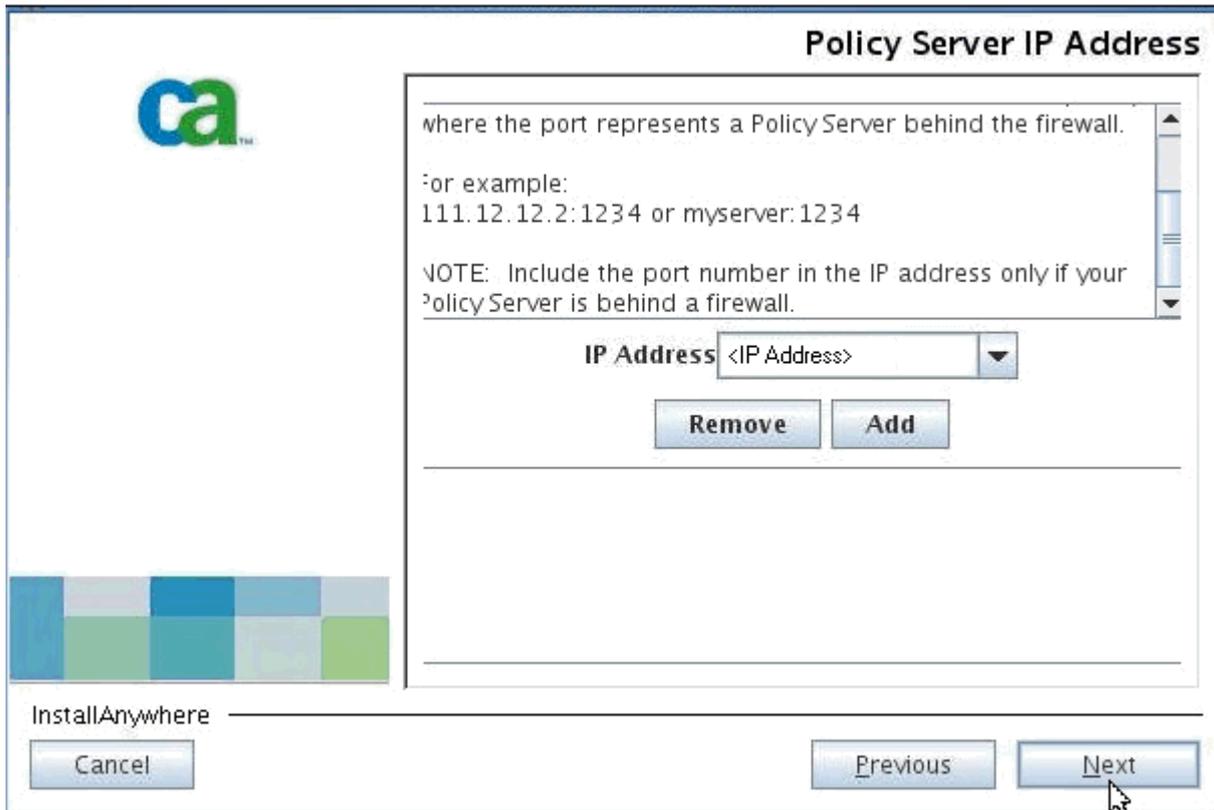


Figure 213. CA SiteMinder Web Agent v6QMR6: Policy Server IP address

- ___ f. Enter a file name and location to store the host configuration information and click **Next**.

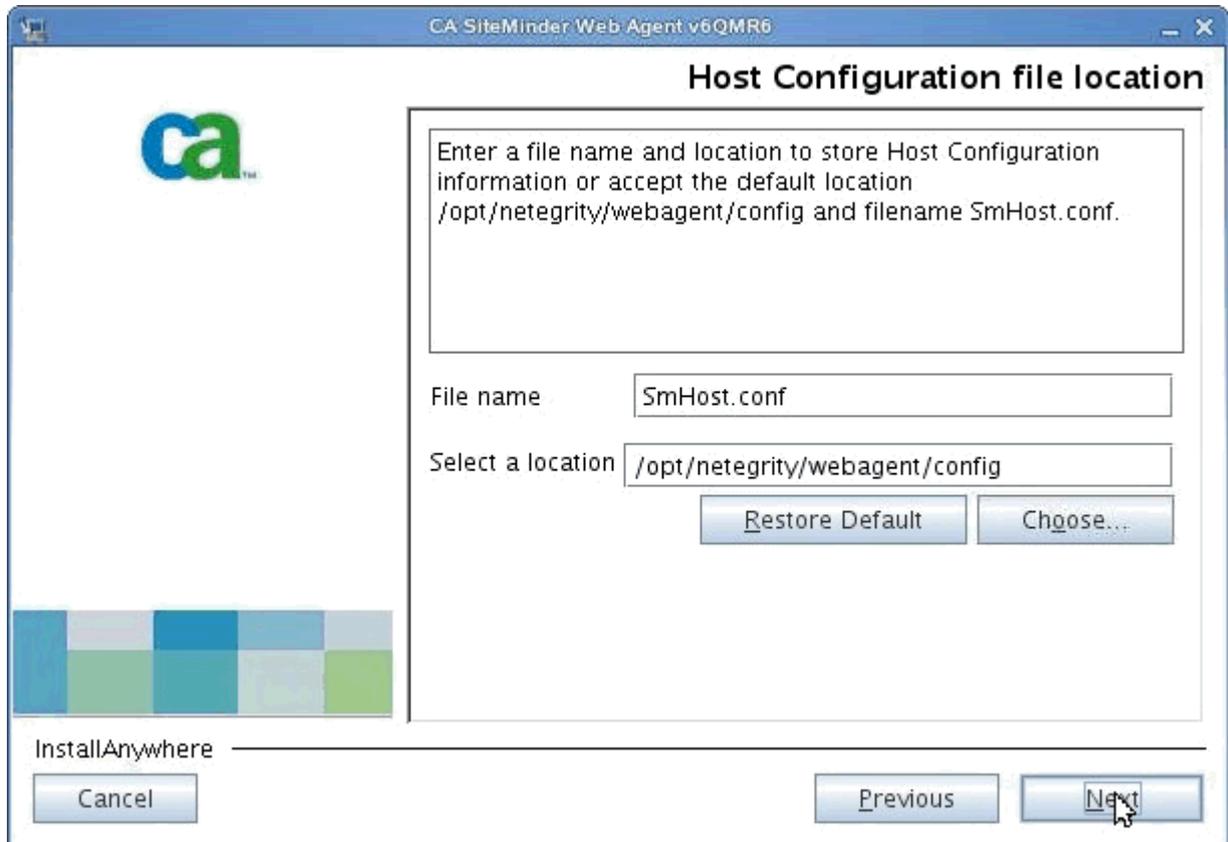


Figure 214. CA SiteMinder Web Agent v6QMR6: Host Configuration file location

___g. Enter the root path where the Apache Web server is installed and click **Next**.

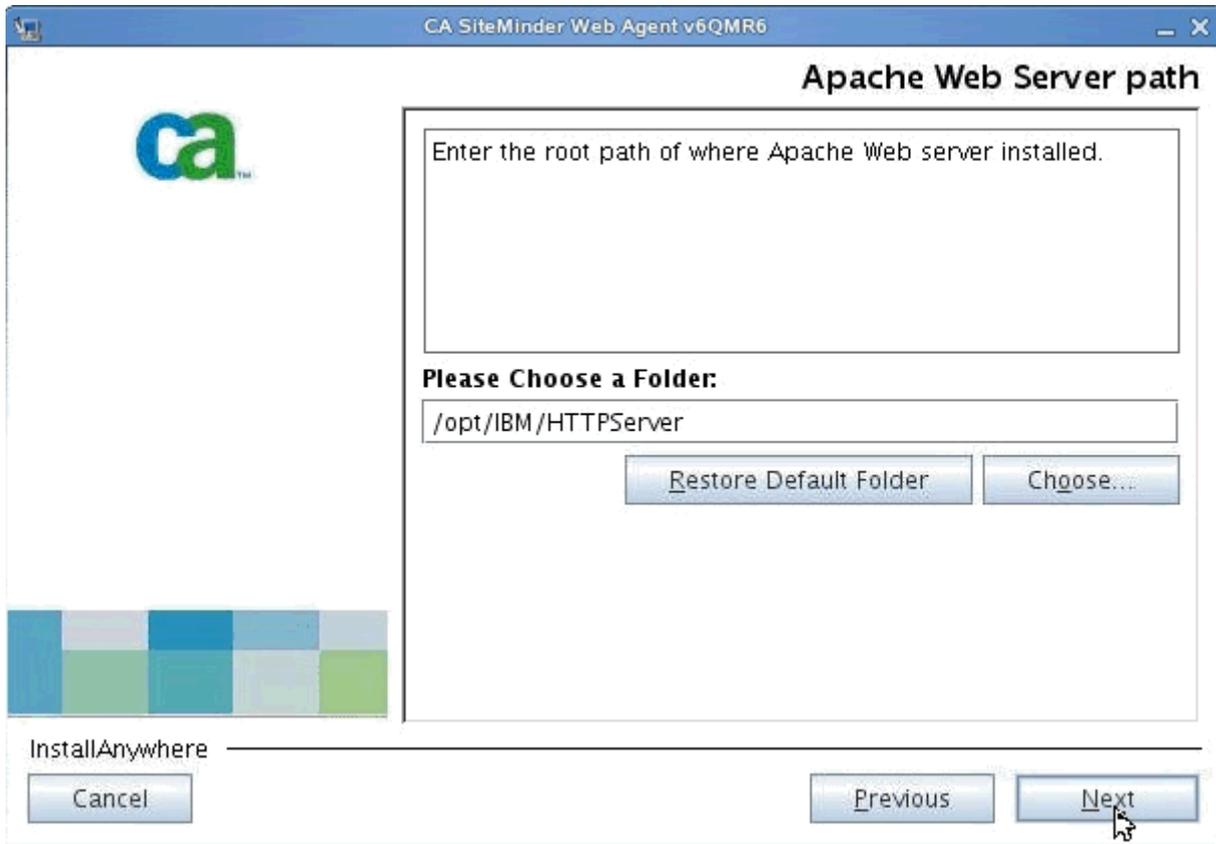


Figure 215. CA SiteMinder Web Agent v6QMR6: Apache Web Server path

- ___ h. If the Apache Web server version fails, select I would like to enter a specific configuration path and click **Next**.

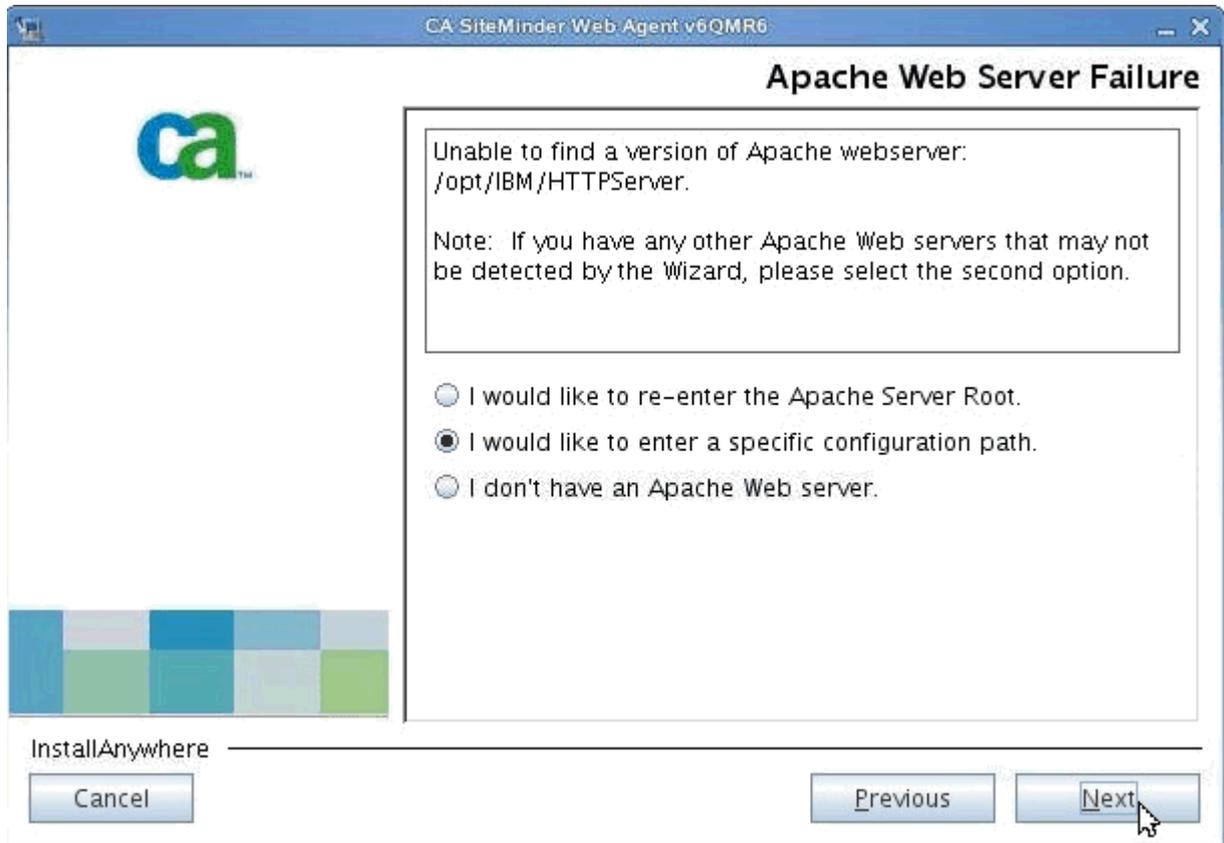


Figure 216. CA SiteMinder Web Agent v6QMR6: Apache Web Server failure

- i. Enter the specific configuration path for Apache Web server and click **Next**.

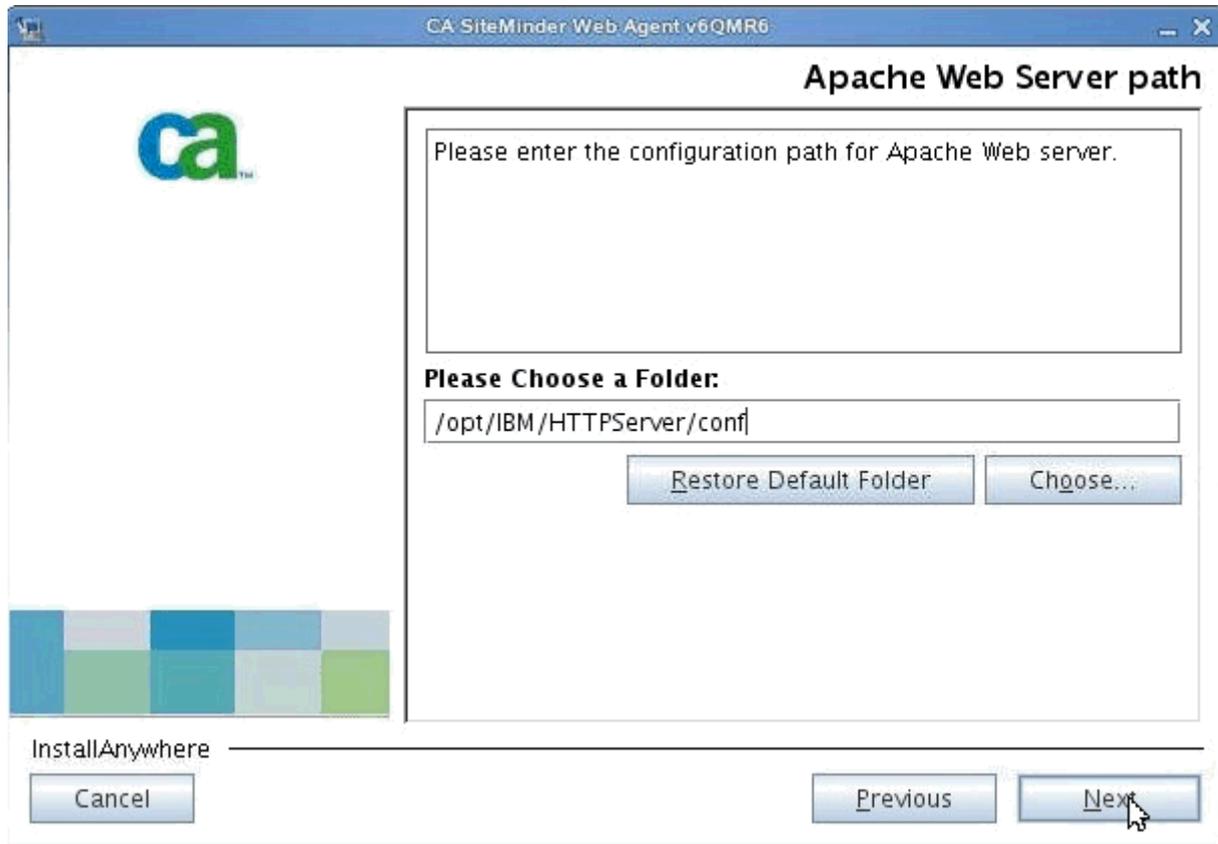


Figure 217. CA SiteMinder Web Agent v6QMR6: Apache Web Server path

___j. Select the Apache version and click **Next**.

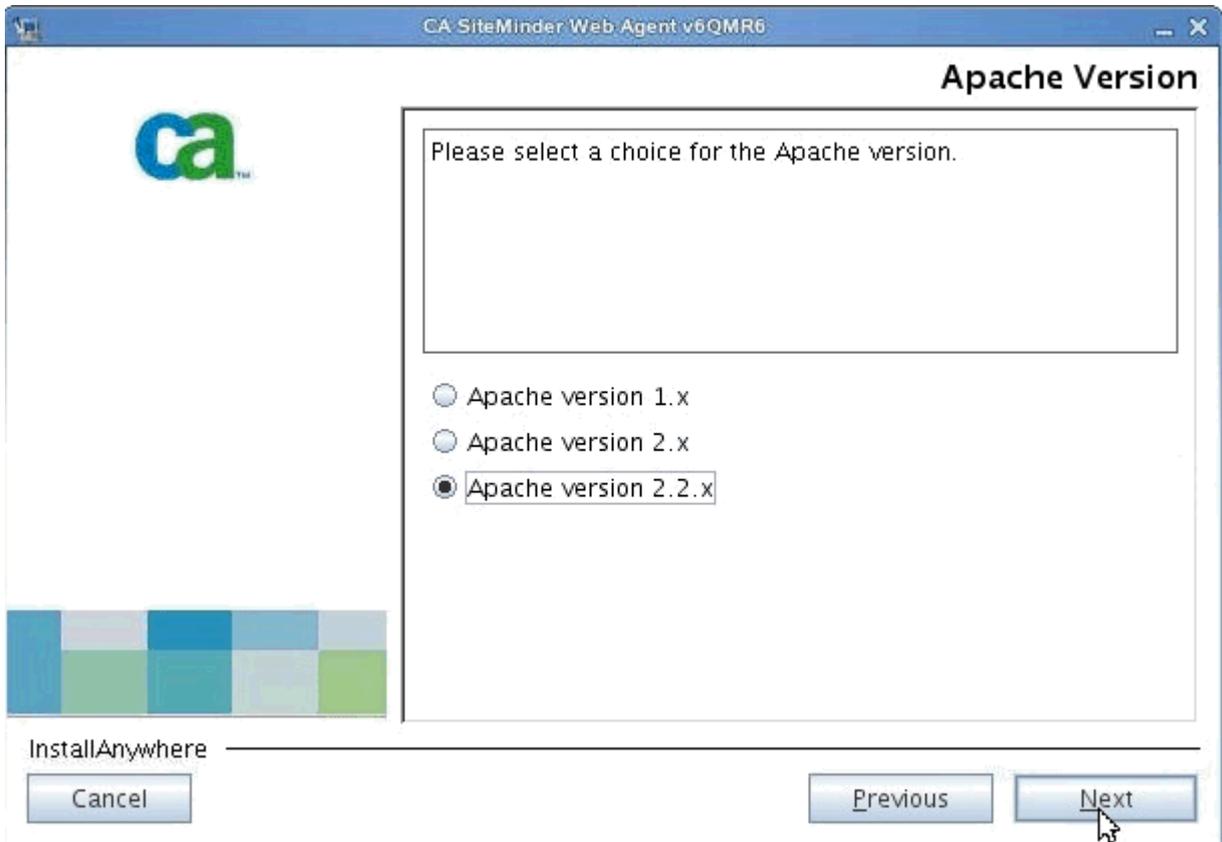


Figure 218. CA SiteMinder Web Agent v6QMR6: Apache Version

___ k. Select the Apache server type and click **Next**.

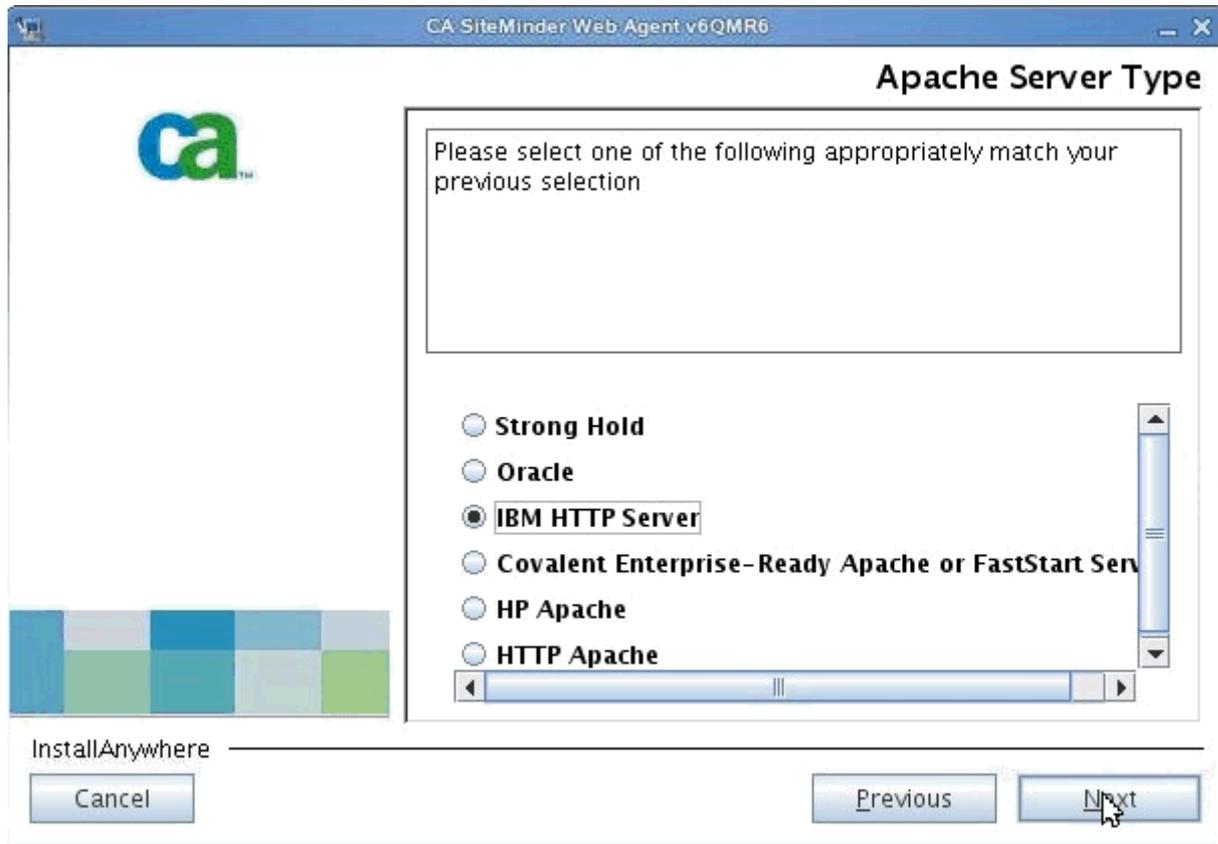


Figure 219. CA SiteMinder Web Agent v6QMR6: Apache Server Type

- ___ l. Select the web servers and click **Next**.

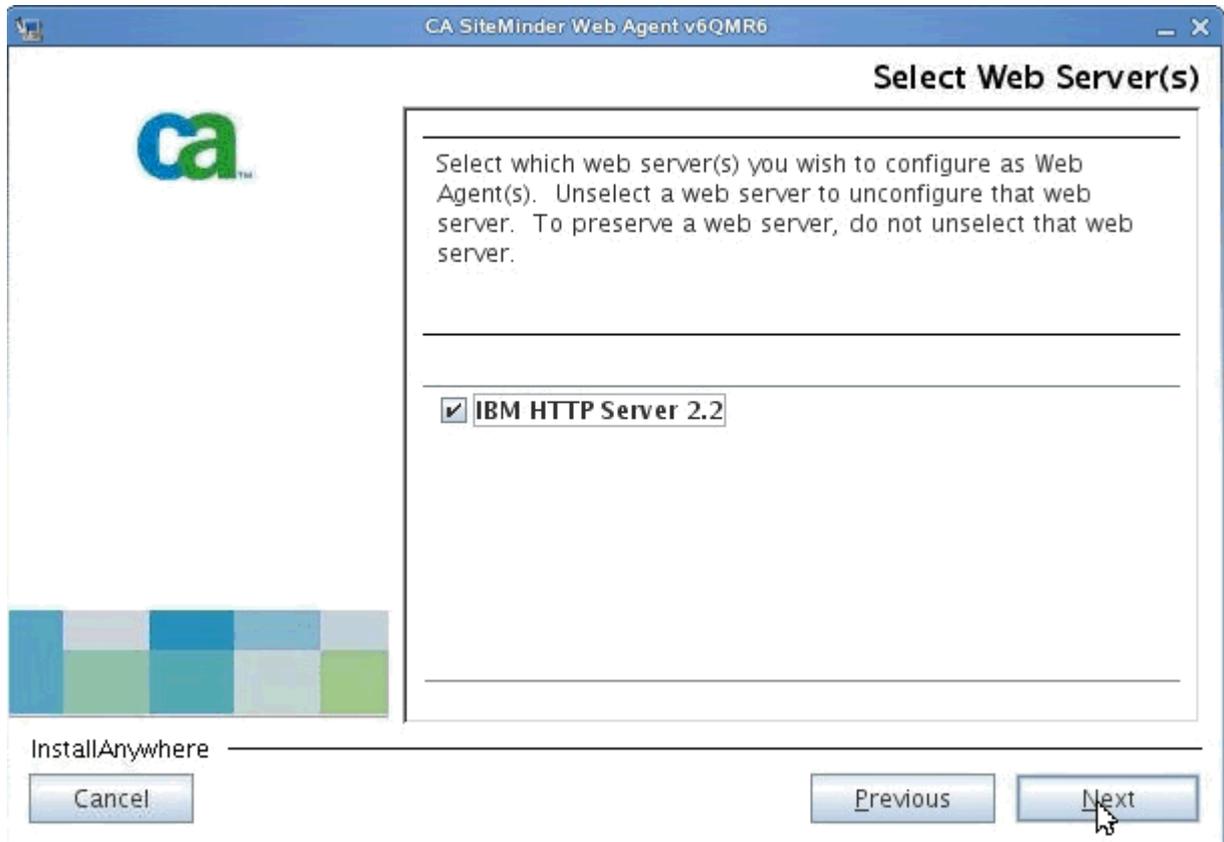


Figure 220. CA SiteMinder Web Agent v6QMR6: Select Web Servers

The Agent Configuration Object screen is displayed.

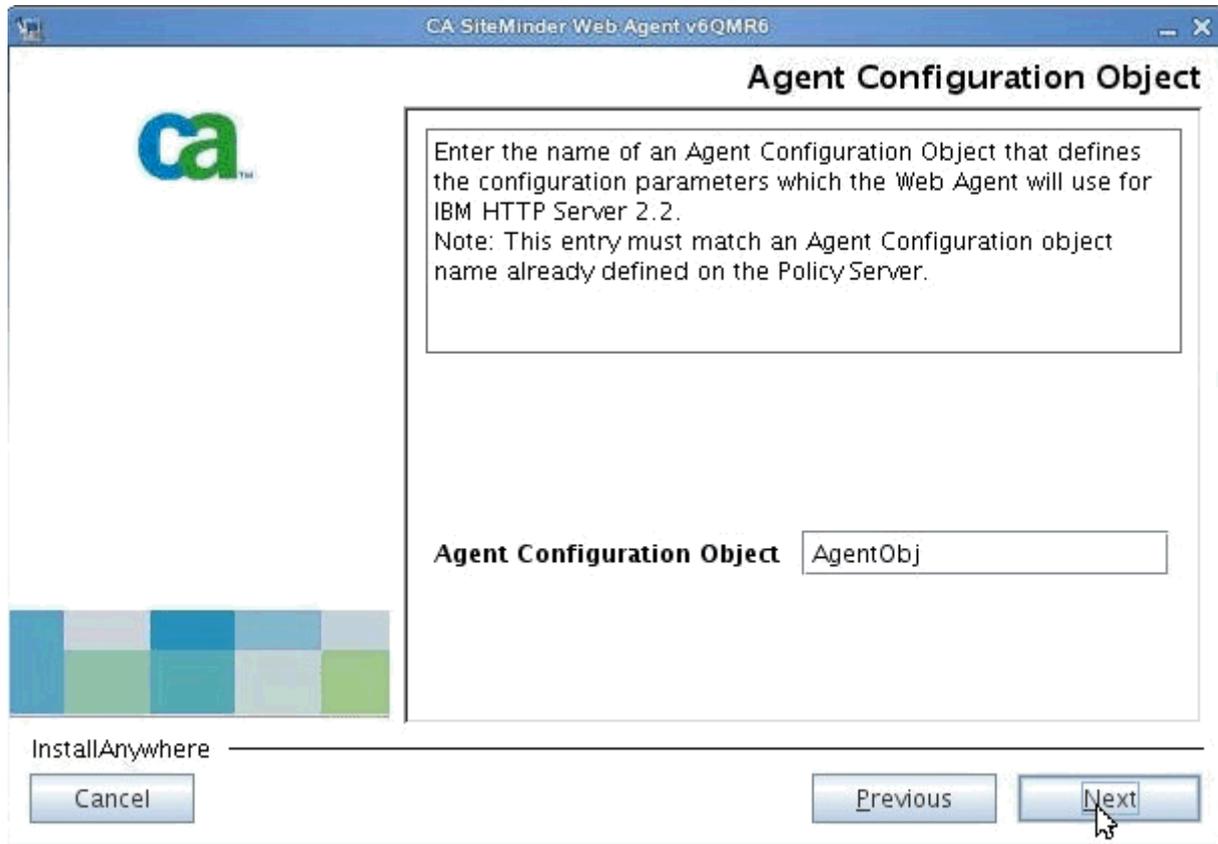


Figure 221. CA SiteMinder Web Agent v6QMR6: Agent Configuration Object

- ___ m. Enter the name of an agent configuration object to define the parameters and click **Next**.

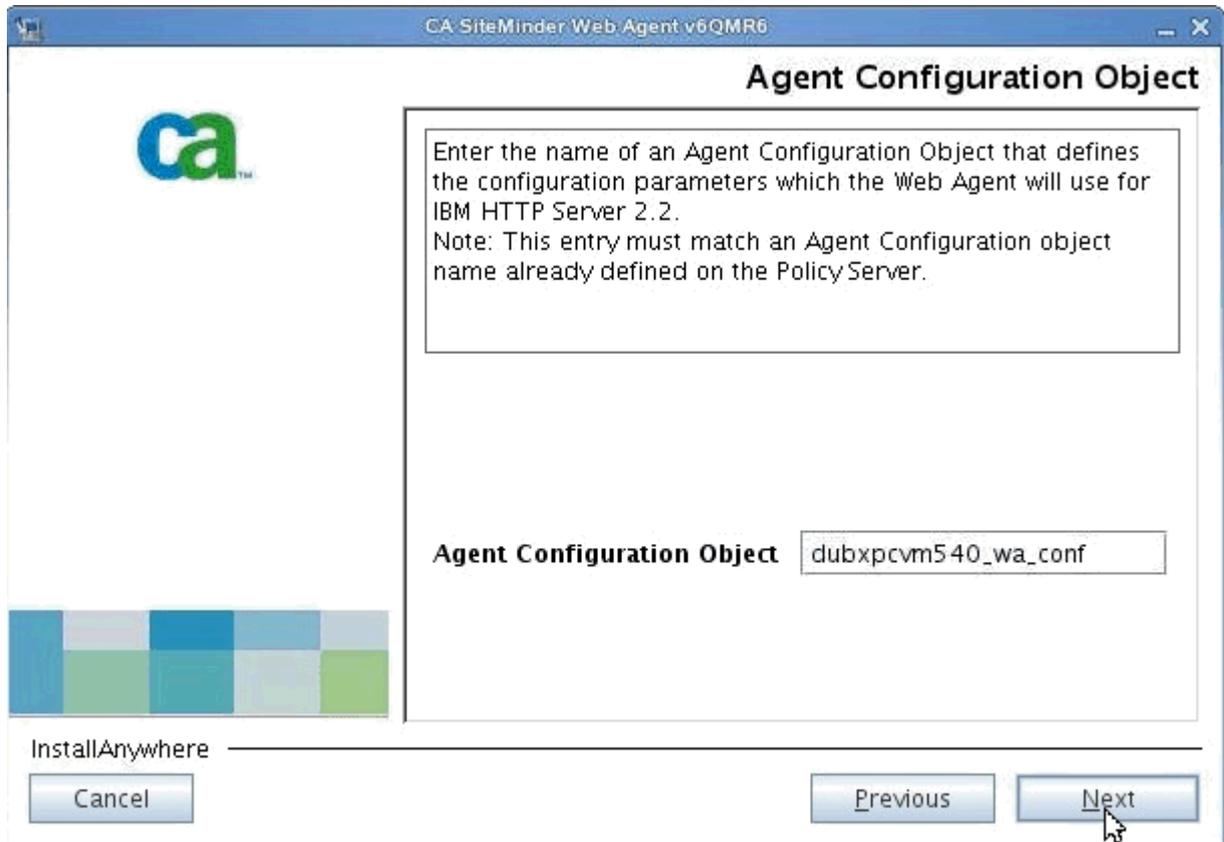


Figure 222. CA SiteMinder Web Agent v6QMR6: Agent Configuration Object

___ n. Select the SSL configuration to configure IBM HTTP Server 2.2. and click **Next**.

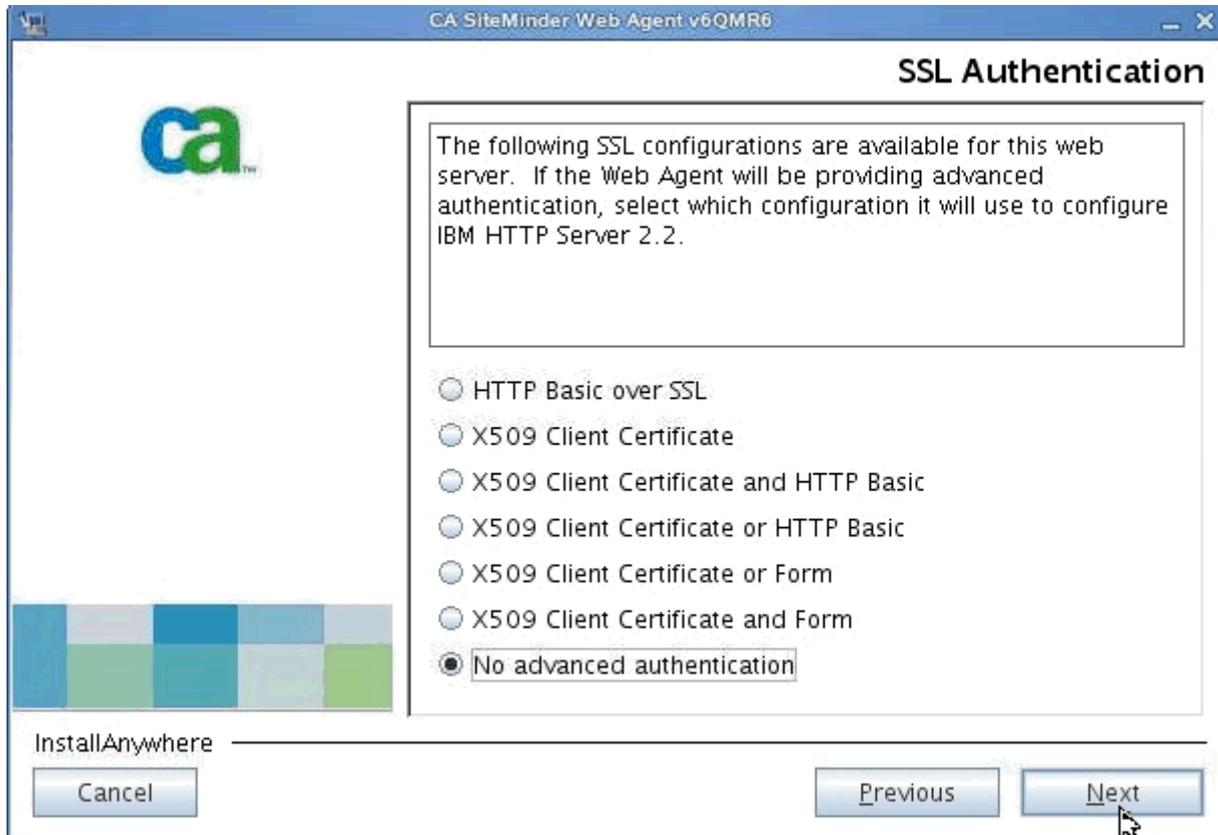


Figure 223. CA SiteMinder Web Agent v6QMR6: SSL Authentication

- ___ o. Select No, I don't want to configure Self Registration and click **Next**.

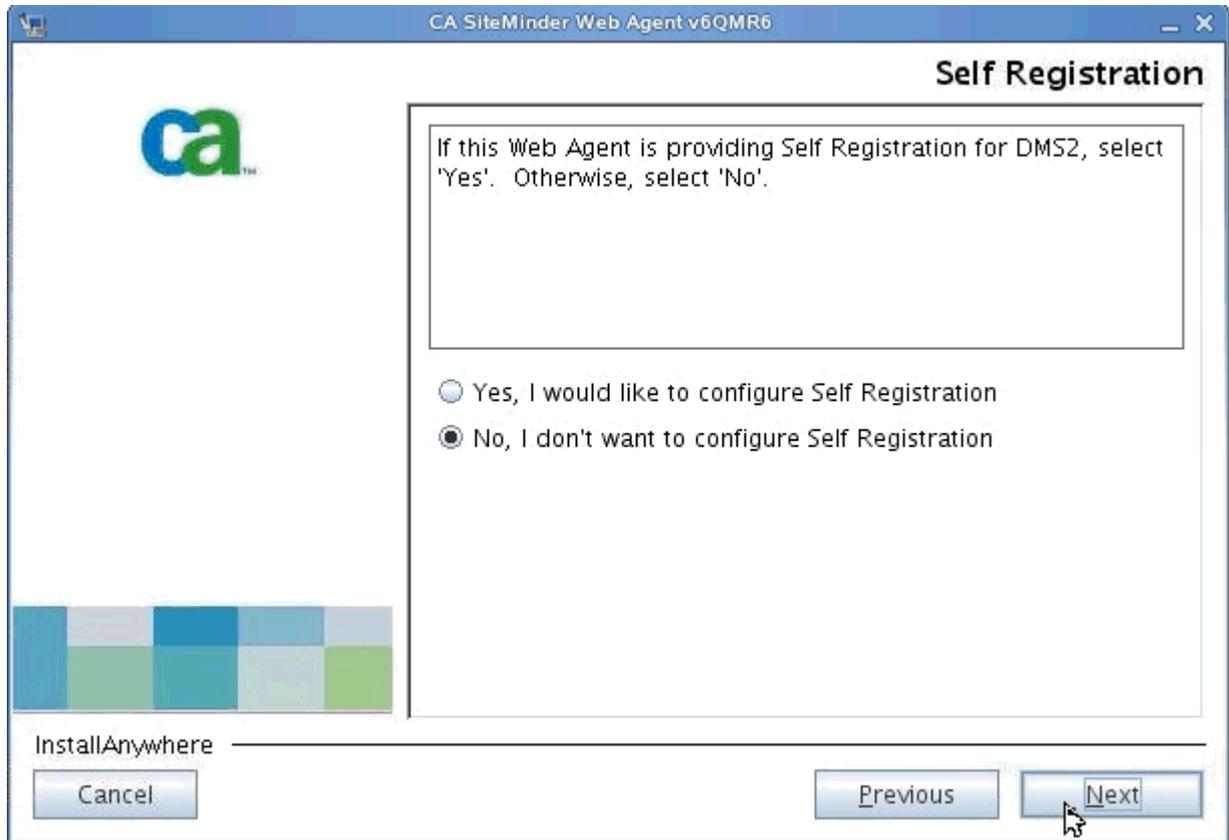


Figure 224. CA SiteMinder Web Agent v6QMR6: Self Registration

___ p. Review the configuration selection and click **Install**.



Figure 225. CA SiteMinder Web Agent v6QMR6: Web Server Configuration Summary

- ___ q. The installation is finished. Click **Done**.

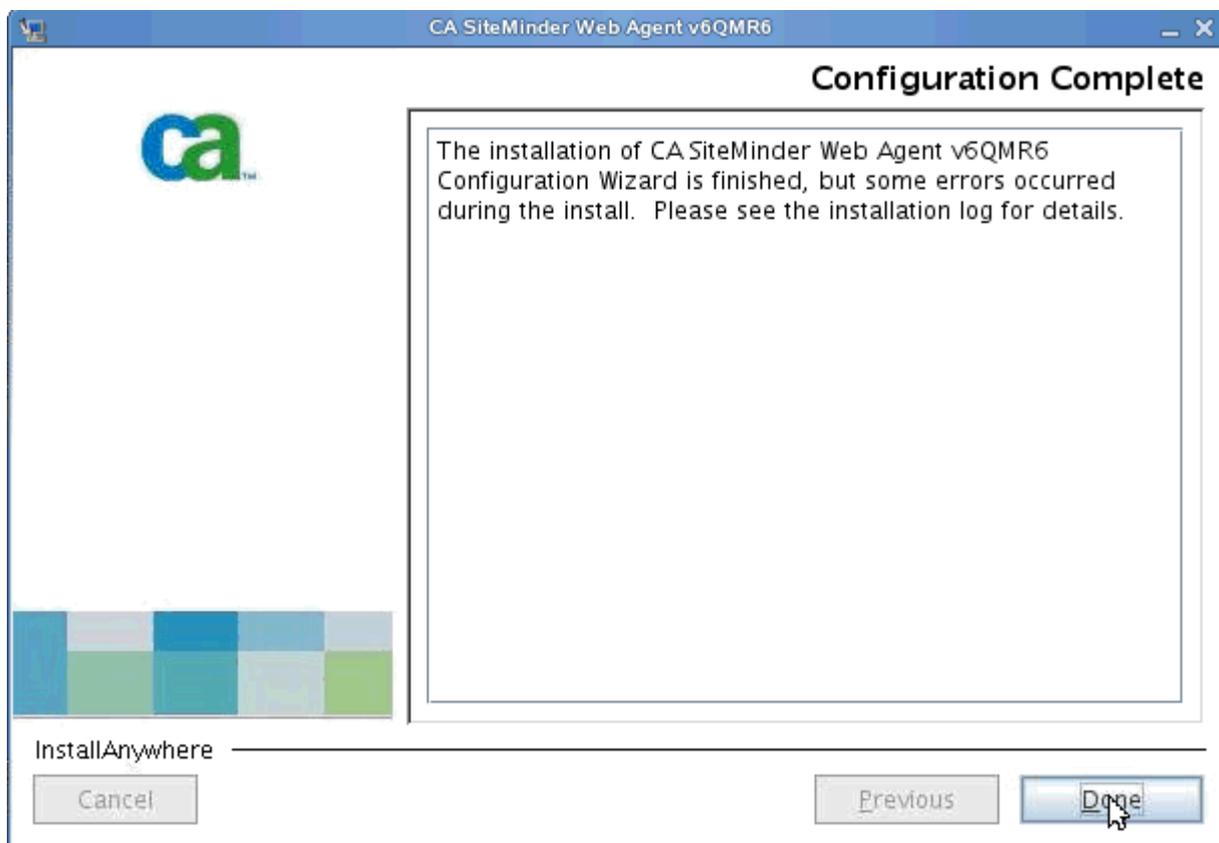


Figure 226. CA SiteMinder Web Agent v6QMR6: Configuration Complete

- ___ 4. Install Application Server Agent (ASA) on WebSphere nodes.



Note

You can also install Application Server Agent (ASA) by following the steps in this guide:

http://www-10.lotus.com/ldd/lcwiki.nsf/dx/Installing_the_Application_Server_Agent_lprASArpr.

- ___ a. Run the following command to open the CA eTrust SiteMinder Agent v6.0 for WebSphere.

```
:/software/smasa # java -jar ca-asa-6.0-cr11-was.jar
```

Figure 227. Command to open the CA eTrust SiteMinder Agent v6.0 for WebSphere

- ___ b. In the introduction screen of the CA eTrust SiteMinder Agent v6.0 for WebSphere, click **Next**.

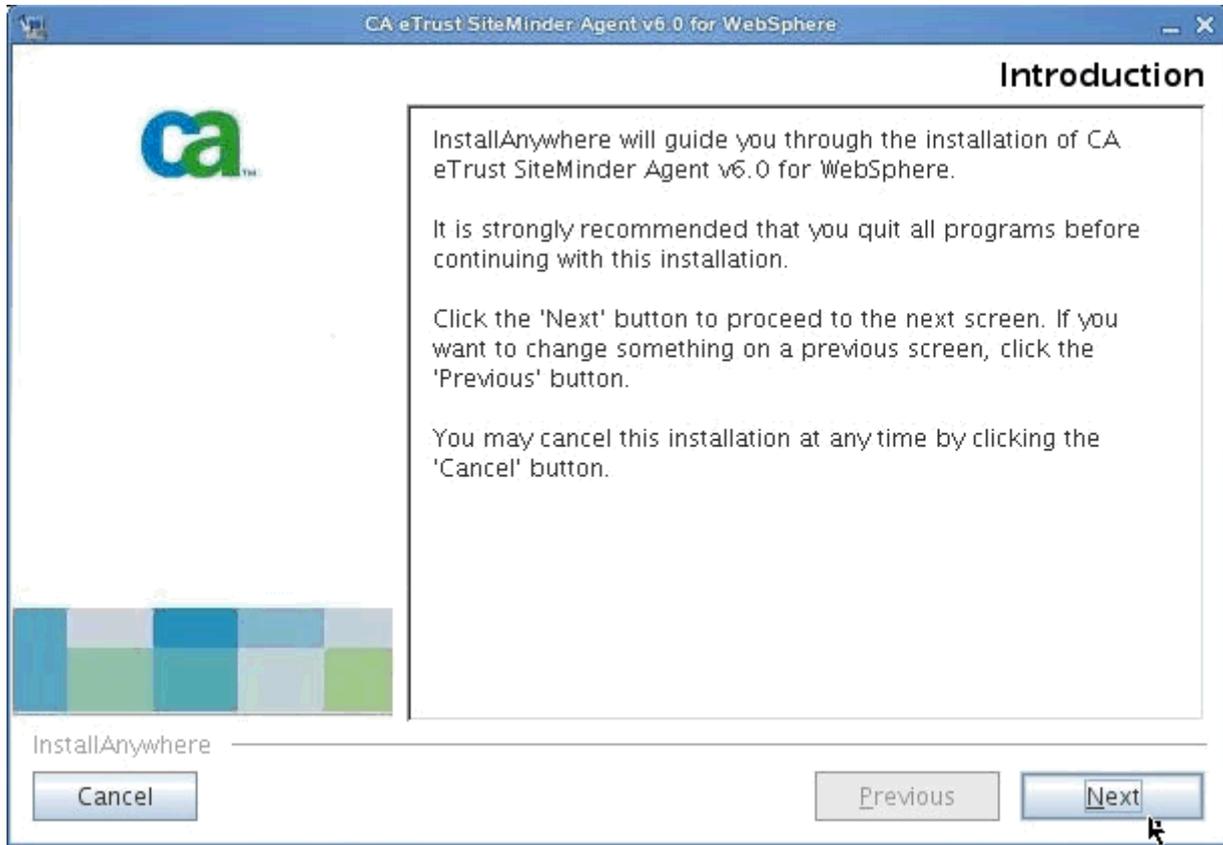


Figure 228. CA eTrust SiteMinder Agent v6.0 for WebSphere: Introduction

- ___ c. Accept the license agreement and click **Next**.



Figure 229. CA eTrust SiteMinder Agent v6.0 for WebSphere: License Agreement

___ d. Choose the location where you want to install the product and click **Next**.



Figure 230. CA eTrust SiteMinder Agent v6.0 for WebSphere: Choose Install Folder

- ___ e. Choose the location where WebSphere is installed and click **Install**.



Figure 231. CA eTrust SiteMinder Agent v6.0 for WebSphere: Choose WebSphere Folder

The installation begins.



Figure 232. CA eTrust SiteMinder Agent v6.0 for WebSphere: Installing CA eTrust SiteMinder Agent v6.0 for WebSphere

- ___ f. In the host registration screen, select Yes, create trusted host and click **Next**.

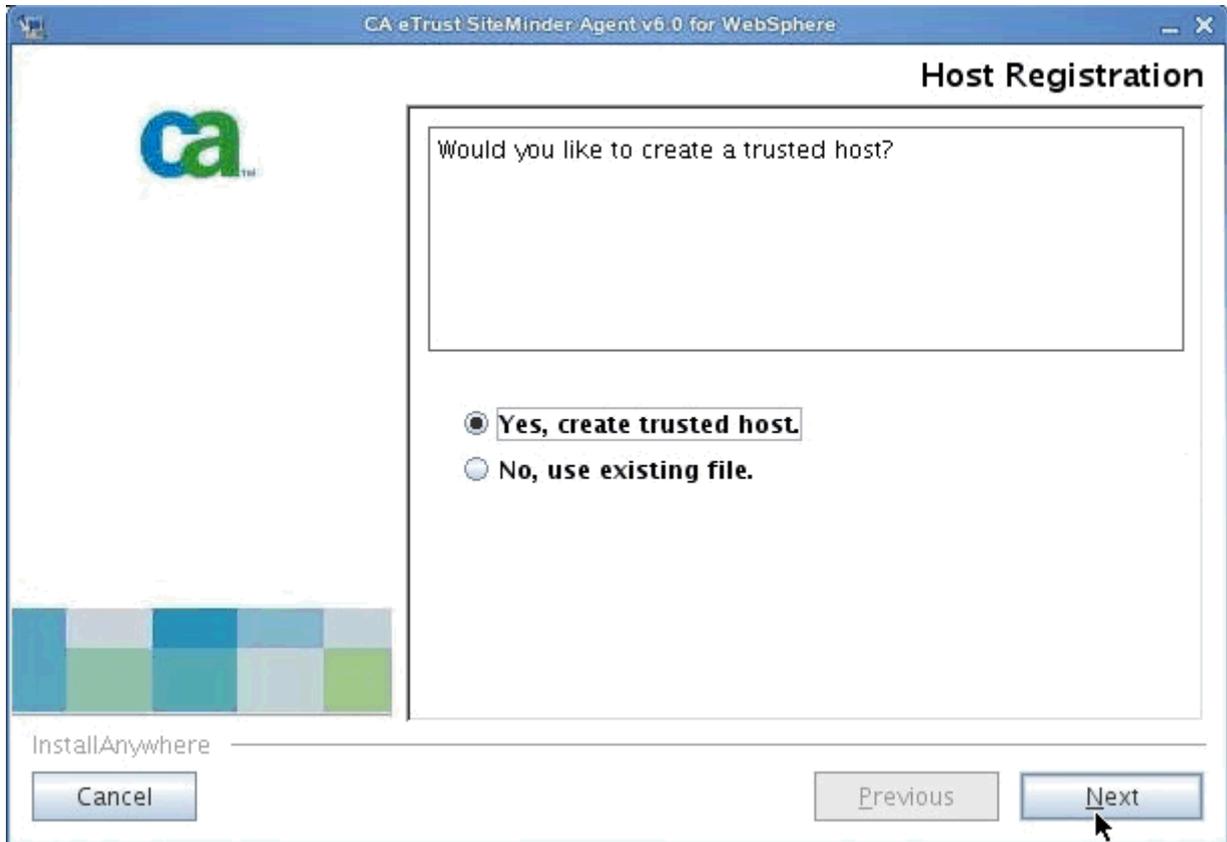


Figure 233. CA eTrust SiteMinder Agent v6.0 for WebSphere: Host Registration

___ g. Check the SiteMinder host information and click **Next**.



Figure 234. CA eTrust SiteMinder Agent v6.0 for WebSphere: Host Registration

- ___ h. When prompted, enter the agent configuration object name and click **Next**.

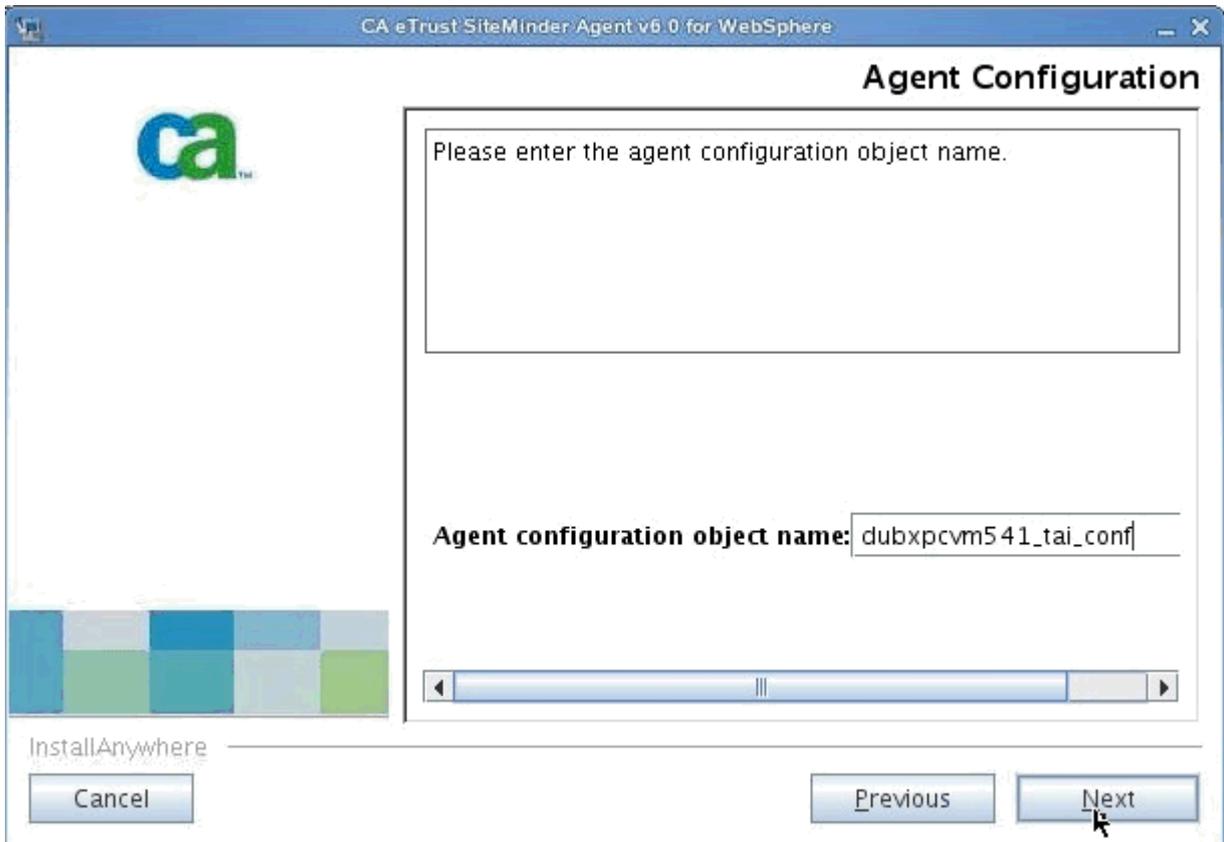


Figure 235. CA eTrust SiteMinder Agent v6.0 for WebSphere: Agent Configuration

- ___ i. When the installation is finished, click **Done** to quit the installer.



Figure 236. CA eTrust SiteMinder Agent v6.0 for WebSphere: Installation Complete

3. Post-actions after installation agent



Information

For more detailed information about post actions after installation agent, see http://www-10.lotus.com/ldd/lcwiki.nsf/xpDocViewer.xsp?lookupName=IBM+Connections+4.0+documentation#action=openDocument&res_title=Enabling_single_signon_for_SiteMin der_with_SPNEGO_ic40&content=pdcontent.

- ___ 1. When the Application Server Agent is configured ensure to copy `smagent.properties` from the agent installation directory `smwasasa\conf` to `AppServer\profiles\AppSrv01\properties` on each node. Go to **Security > Global security > Web and SIP security**, and check **Enable Trust association**.



Figure 237. Enabling trust association

- ___ 2. Click **OK** and then **Save**.
- ___ 3. Then, go to **Global security > Trust association > Interceptors**, and add a trust as shown in the following figure:

Specifies the trust information for reverse proxy servers.

General Properties

* **Interceptor class name**

Custom properties

Select	Name	Value
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>

Figure 238. Specifying the trust information for servers proxy servers

- ___ j. Click **OK** and then **Save**.

- ___ k. Click the resource as in the following figure.

Global security > Trust association > Interceptors

Specifies the trust information for reverse proxy servers.

⊕ Preferences

New Delete

☑ ☒ ↕ ↻

Select Interceptor Class Name ▾

You can administer the following resources:

<input type="checkbox"/>	com.ibm.ws.security.oauth20.tai.OAuthTAI
<input type="checkbox"/>	com.ibm.ws.security.spnego.TrustAssociationInterceptorImpl
<input type="checkbox"/>	com.netegrity.siteminder.websphere.auth.SmTrustAssociationInterceptor

Figure 239. Interceptors: Administering resources

___ l. Add the following lines into httpd.conf and restart IHS:

```

RewriteEngine On
RewriteCond %{REQUEST_URI} /(.*)/ibm_security_logout(.*)
RewriteCond %{QUERY_STRING}
!=logoutExitPage=https://connections.example.com/homepage
RewriteRule /(.*)/ibm_security_logout(.*)
/homepage/web/ibm_security_logout?logoutExitPage=https://connections.example.com
/homepage [noescape,L,R]

RewriteCond %{REQUEST_URI} !^/blogs/roller-ui/rendering/(.*)
RewriteRule ^/blogs/(.*)/api/(.*) /blogs/roller-ui/rendering/api/$1/api/$2 [R,L]
RewriteCond %{REQUEST_URI} !^/blogs/roller-ui/rendering/(.*)
RewriteRule ^/blogs/(.*)/feed/tags/atom(.*)
/blogs/roller-ui/rendering/feed/$1/tags/atom/ [R,L]
RewriteCond %{REQUEST_URI} !^/blogs/roller-ui/rendering/(.*)
RewriteRule ^/blogs/(.*)/feed/entries/atom(.*)
/blogs/roller-ui/rendering/feed/$1/entries/atom/ [R,L]
RewriteCond %{REQUEST_URI} !^/blogs/roller-ui/rendering/(.*)
RewriteRule ^/blogs/(.*)/feed/comments/atom(.*)
/blogs/roller-ui/rendering/feed/$1/comments/atom/ [R,L]
RewriteCond %{REQUEST_URI} !^/blogs/roller-ui/rendering/(.*)
RewriteRule ^/blogs/(.*)/feed/blogs/atom(.*)
/blogs/roller-ui/rendering/feed/$1/blogs/atom/ [R,L]

LoadModule ibm_ssl_module modules/mod_ibm_ssl.so
<IfModule mod_ibm_ssl.c>
Listen 0.0.0.0:443
<VirtualHost *:443>
ServerName connections.example.com
SSLEnable
AllowEncodedSlashes On

RewriteEngine On
RewriteCond %{REQUEST_URI} /(.*)/ibm_security_logout(.*)
RewriteCond %{QUERY_STRING}
!=logoutExitPage=https://connections.example.com/homepage
RewriteRule /(.*)/ibm_security_logout(.*)
/homepage/web/ibm_security_logout?logoutExitPage=https://connections.example.com
/homepage [noescape,L,R]

RewriteCond %{REQUEST_URI} !^/blogs/roller-ui/rendering/(.*)
RewriteRule ^/blogs/(.*)/api/(.*) /blogs/roller-ui/rendering/api/$1/api/$2 [R,L]
RewriteCond %{REQUEST_URI} !^/blogs/roller-ui/rendering/(.*)
RewriteRule ^/blogs/(.*)/feed/tags/atom(.*)
/blogs/roller-ui/rendering/feed/$1/tags/atom/ [R,L]
RewriteCond %{REQUEST_URI} !^/blogs/roller-ui/rendering/(.*)
RewriteRule ^/blogs/(.*)/feed/entries/atom(.*)
/blogs/roller-ui/rendering/feed/$1/entries/atom/ [R,L]
RewriteCond %{REQUEST_URI} !^/blogs/roller-ui/rendering/(.*)
RewriteRule ^/blogs/(.*)/feed/comments/atom(.*)
/blogs/roller-ui/rendering/feed/$1/comments/atom/ [R,L]
RewriteCond %{REQUEST_URI} !^/blogs/roller-ui/rendering/(.*)
RewriteRule ^/blogs/(.*)/feed/blogs/atom(.*)
/blogs/roller-ui/rendering/feed/$1/blogs/atom/ [R,L]

```

```
</VirtualHost>
</IfModule>
SSLDisable
```

- ___ 4. Configure SPNEGO over https. Add the following lines to httpd.conf in /opt/IBM/HTTPServer/conf:

```
Listen 444
<VirtualHost *:444>
ServerName connections.example.com
SSLEnable
KeyFile "/opt/IBM/HTTPServer/bin/IHSkey.kdb"
SSLStashFile "/opt/IBM/HTTPServer/bin/IHSkey.sth"
</VirtualHost>
```

- ___ a. In WebSphere Application Server console, go to **Environment > Virtual Hosts > default_host > Host Aliases, new aliases** as in the following:



Figure 240. Host Aliases, new aliases

- ___ b. Click **OK** and then **Save**.
- ___ c. Sync nodes and wait some time.
- ___ d. In WebAgent.conf under /opt/IBM/HTTPServer/conf, uncomment this line:
localconfigfile="/opt/IBM/HTTPServer/conf/LocalConfig.conf".
- ___ e. In LocalConfig.conf under /opt/IBM/HTTPServer/conf, add one line like as follows:
IgnoreHost="connections.example.com:444", and comment out every other line in this config.
- ___ f. Restart HTTP server.
- ___ g. In LotusConnections-config.xml file under /opt/IBM/WebSphere/AppServer/profiles/Dmgr01/config/cells/ConnectionsCell01/LotusConnections-config, modify each interService URL as follows:
<sloc:interService href="https://connections.example.com:444"/>
- ___ h. Leave the authenticator as DefaultAuthenticator without change.
- ___ i. Full sync nodes.
- ___ j. Stop all nodes and DM. Start DM and nodes again, and start Connections server.

