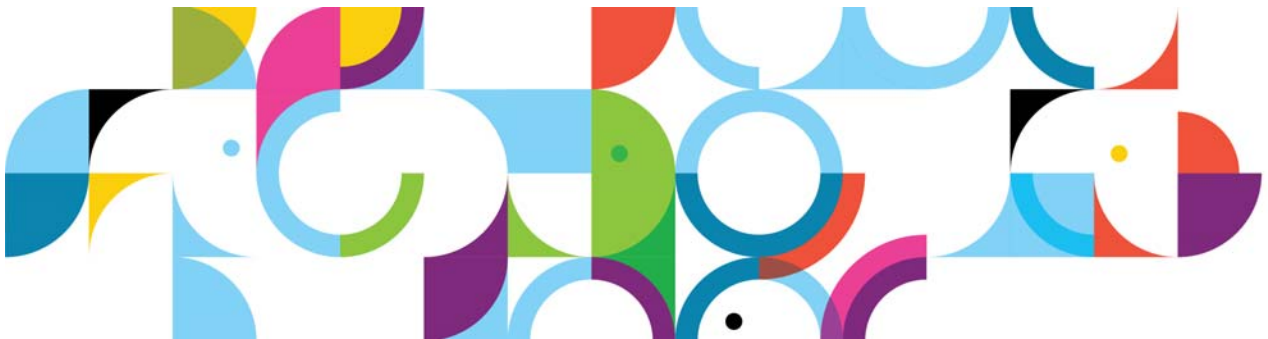




*IBM Connections 4 Public
Deployment Scenarios*

Deployment Scenarios

ERC 1.0



Trademarks

IBM® and the IBM logo are registered trademarks of International Business Machines Corporation.

The following are trademarks of International Business Machines Corporation, registered in many jurisdictions worldwide:

AIX®	Cognos®	DB™
DB2 Universal Database™	DB2®	Domino®
Lotus®	LotusScript®	Notes®
Power®	Quickr®	Rational®
Sametime®	System z®	Tivoli®
WebSphere®	400®	

Intel and Xeon are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Microsoft, Windows and Windows NT are trademarks of Microsoft Corporation in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Java™ and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.

Other product and service names might be trademarks of IBM or other companies.

January 2013 edition

The information contained in this document has not been submitted to any formal IBM test and is distributed on an “as is” basis without any warranty either express or implied. The use of this information or the implementation of any of these techniques is a customer responsibility and depends on the customer’s ability to evaluate and integrate them into the customer’s operational environment. While each item may have been reviewed by IBM for accuracy in a specific situation, there is no guarantee that the same or similar results will result elsewhere. Customers attempting to adapt these techniques to their own environments do so at their own risk.

© Copyright International Business Machines Corporation 2013.

This document may not be reproduced in whole or in part without the prior written permission of IBM.

Note to U.S. Government Users — Documentation related to restricted rights — Use, duplication or disclosure is subject to restrictions set forth in GSA ADP Schedule Contract with IBM Corp.

IBM Connections 4: PDS documentation with snapshot: AIX and proxy

About the author

Rong Sun is a software engineer with IBM Collaboration Solutions.

Overview

This scenario explains how to deploy IBM® Connections 4.0 in a network deployment that involves multiple computers with one IBM WebSphere cell that contains two nodes, both of which host IBM® Connections 4.0. This scenario is typical of an enterprise-level production deployment. This article is an end-to-end guide to deploy this type of configuration with all prerequisites. You can also follow this guide in situations in which more than two nodes are being deployed.

- The proxy server use IBM edge server.
- The `dm&ihs.company.com` computer shares Deployment Manager and IBM HTTP Server.
- The database server hosts all application databases in a single instance.
- The Topology type is Medium Deployment.
- Cognos/Metrics is installed but not deployed.

Systems and naming conventions that are used in this document

Computer name	Applications	Version#	OS	RAM	VM or HW
<code>dm&ihs.company.com</code>	Deployment Manager / HTTP	7.0.0.21	AIX6.1 64 Bit	4G	HW
<code>node1.company.com</code>	Node1	7.0.0.21	AIX6.1 64 Bit	16G	HW
<code>node2.company.com</code>	Node2	7.0.0.21	AIX6.1 64 Bit	16G	HW
<code>db2.company.com</code>	RDBMS Tivoli Directory Integrator	DB2v9.7.4 Tivoli Directory Integrator V7.0 fp5	AIX6.1 64 Bit	16G	HW
<code>ldap_edir.company.com</code>	eDir 8.8.5			2G	VM
<code>proxy.company.com</code>	edge cp		Win2003	1G	VM

Contents

1. Topology
2. Pre-installation
3. Post-installation

1. Topology

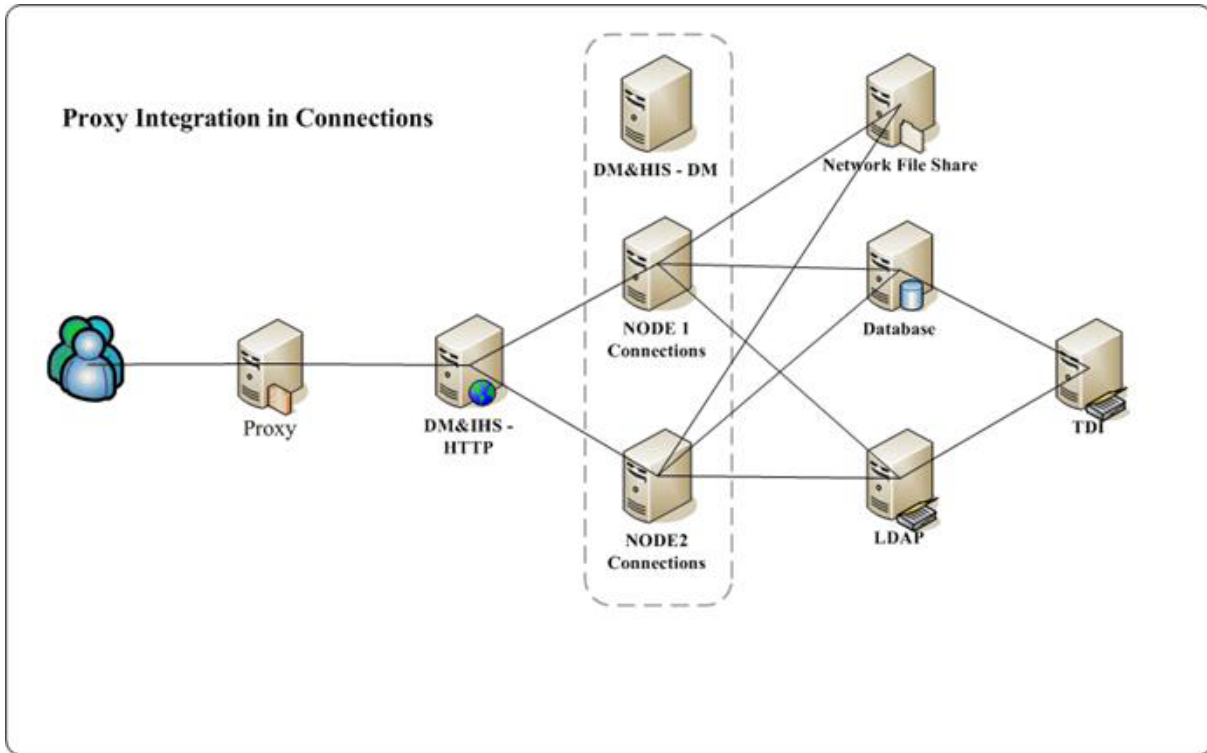


Figure 1. Topology: Proxy Integration in Connections

2. Pre-installation

Install base software and apply fix packs and interim fixes

Install WebSphere Application Server

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

Install Fixpack for WebSphere Application Server

Install WebSphere Update installer in the normal way, and use the update installer to apply the WebSphere Application Server 70021 fix pack. (See snapshot of installation in Install fix pack for IBM HTTP Server.)

Then, apply the needed interim fixes for Connections 4.0 to both Deployment Manager 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

For further information, see:

<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**.

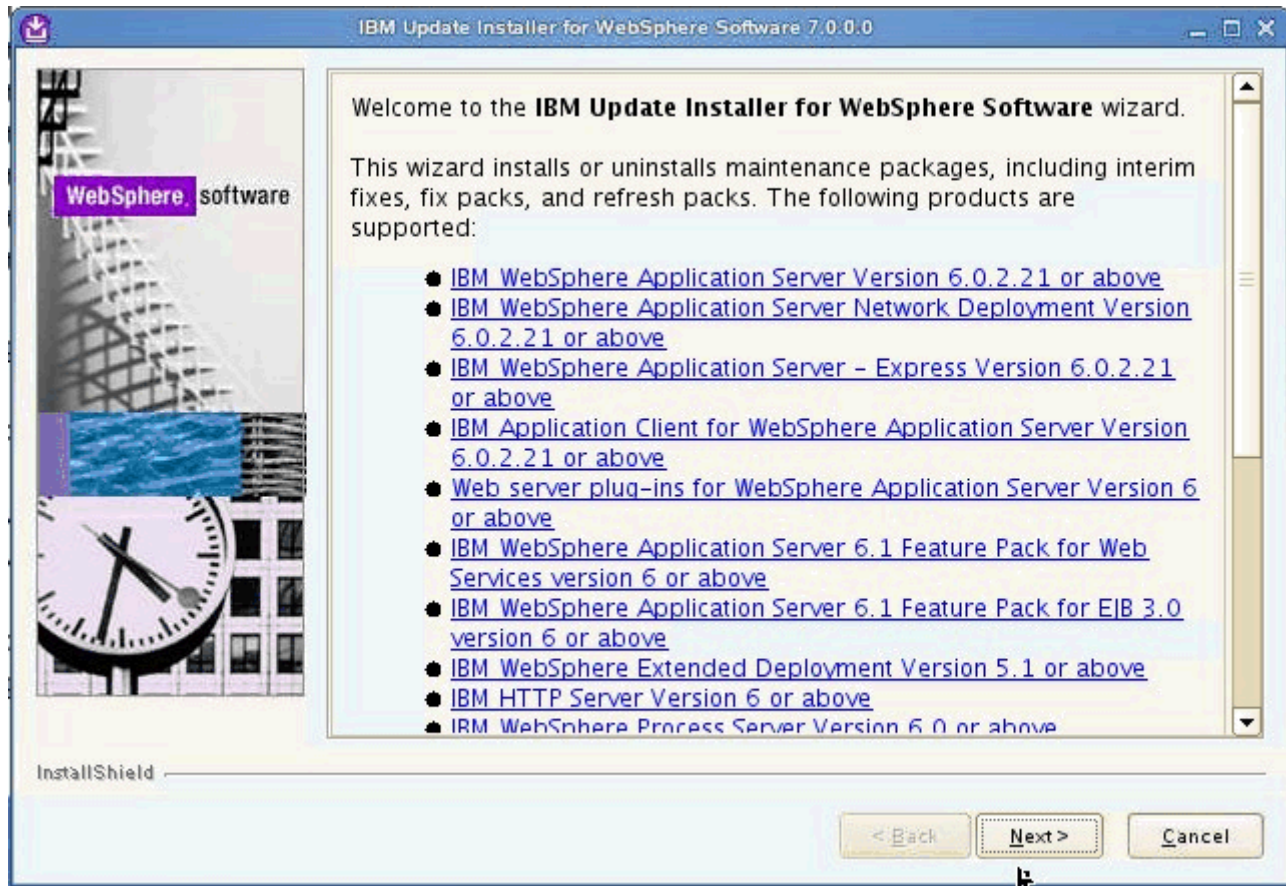


Figure 2. IBM Update Installer for WebSphere Software wizard: Welcome screen

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

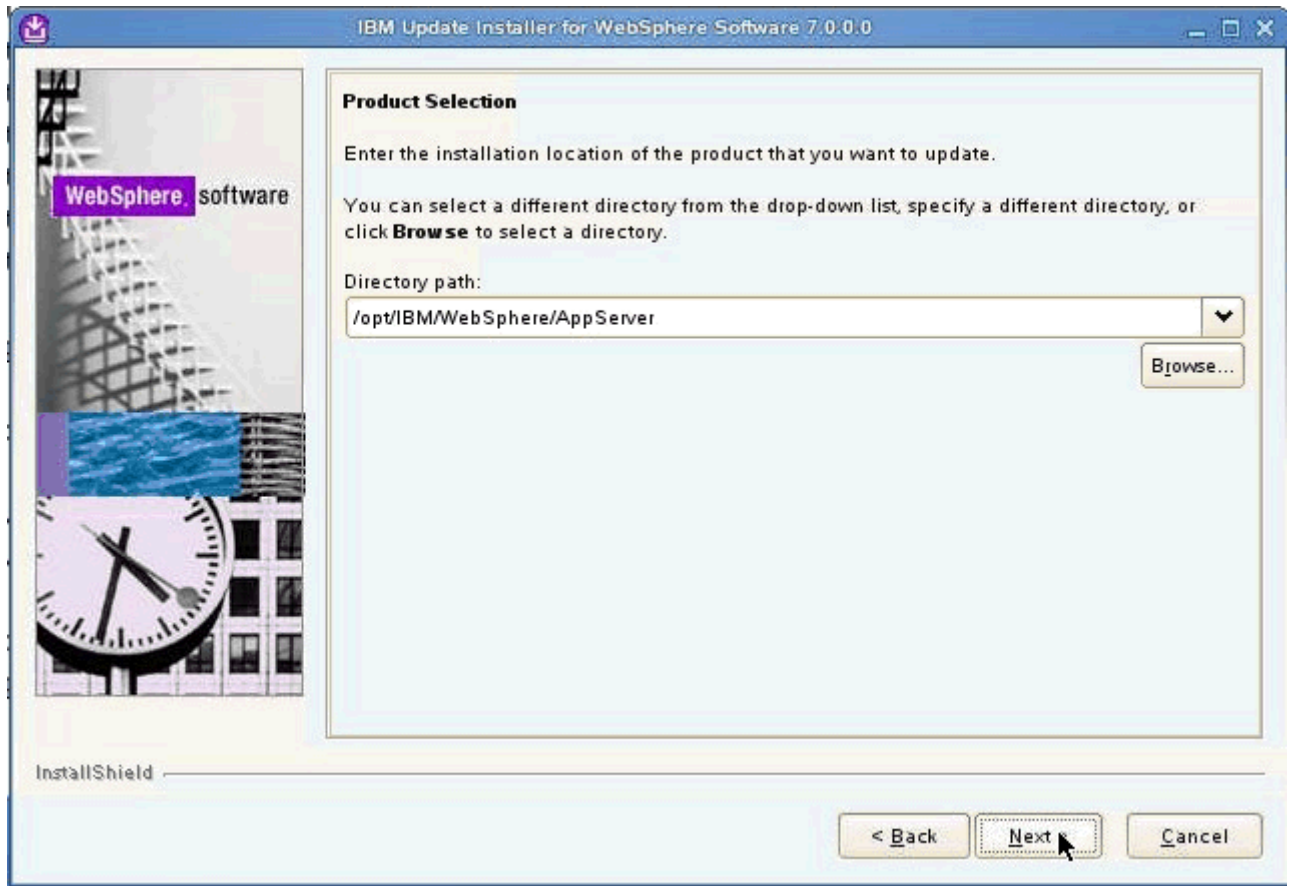


Figure 3. IBM Update Installer for WebSphere Software wizard: Installation location screen

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

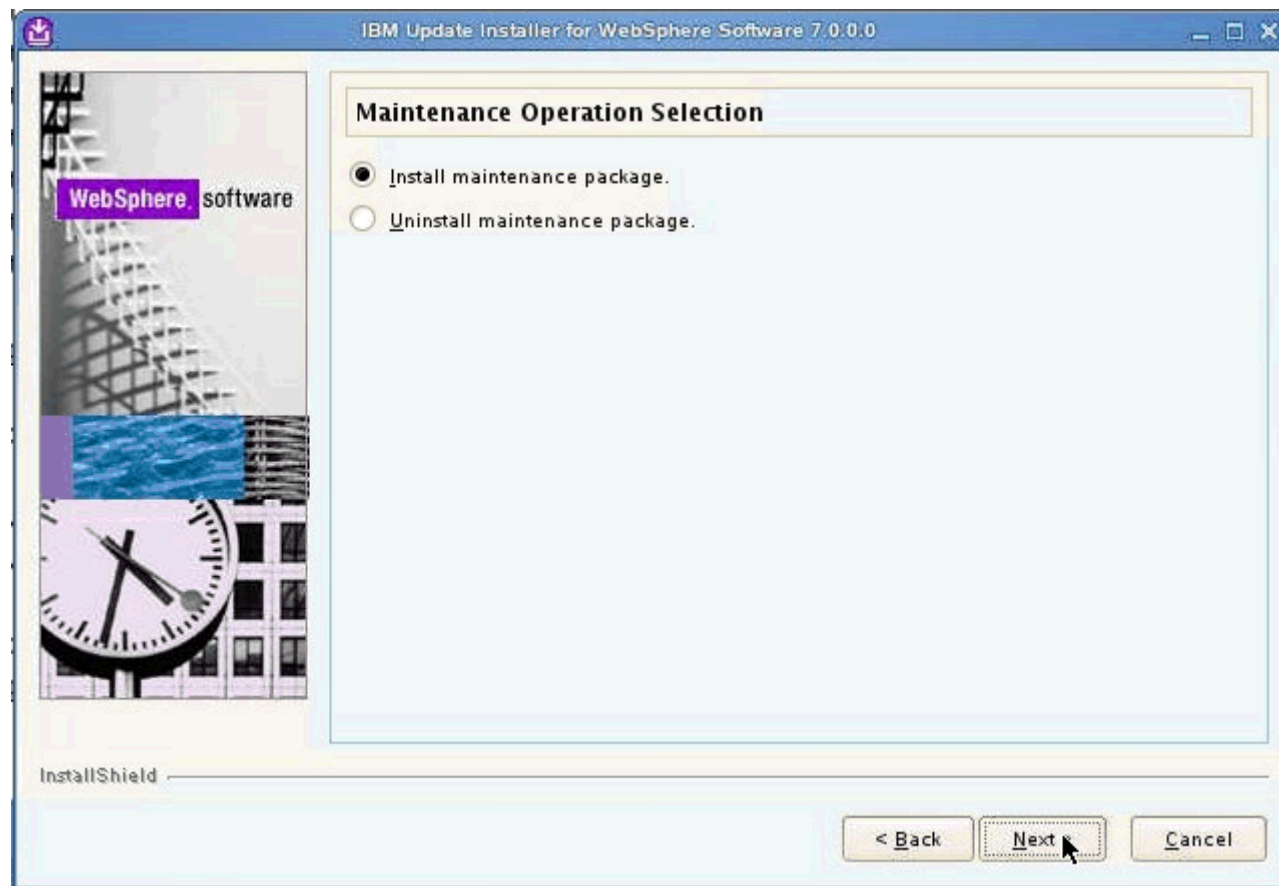


Figure 4. IBM Update Installer for WebSphere Software wizard: Maintenance Operation Selection screen

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

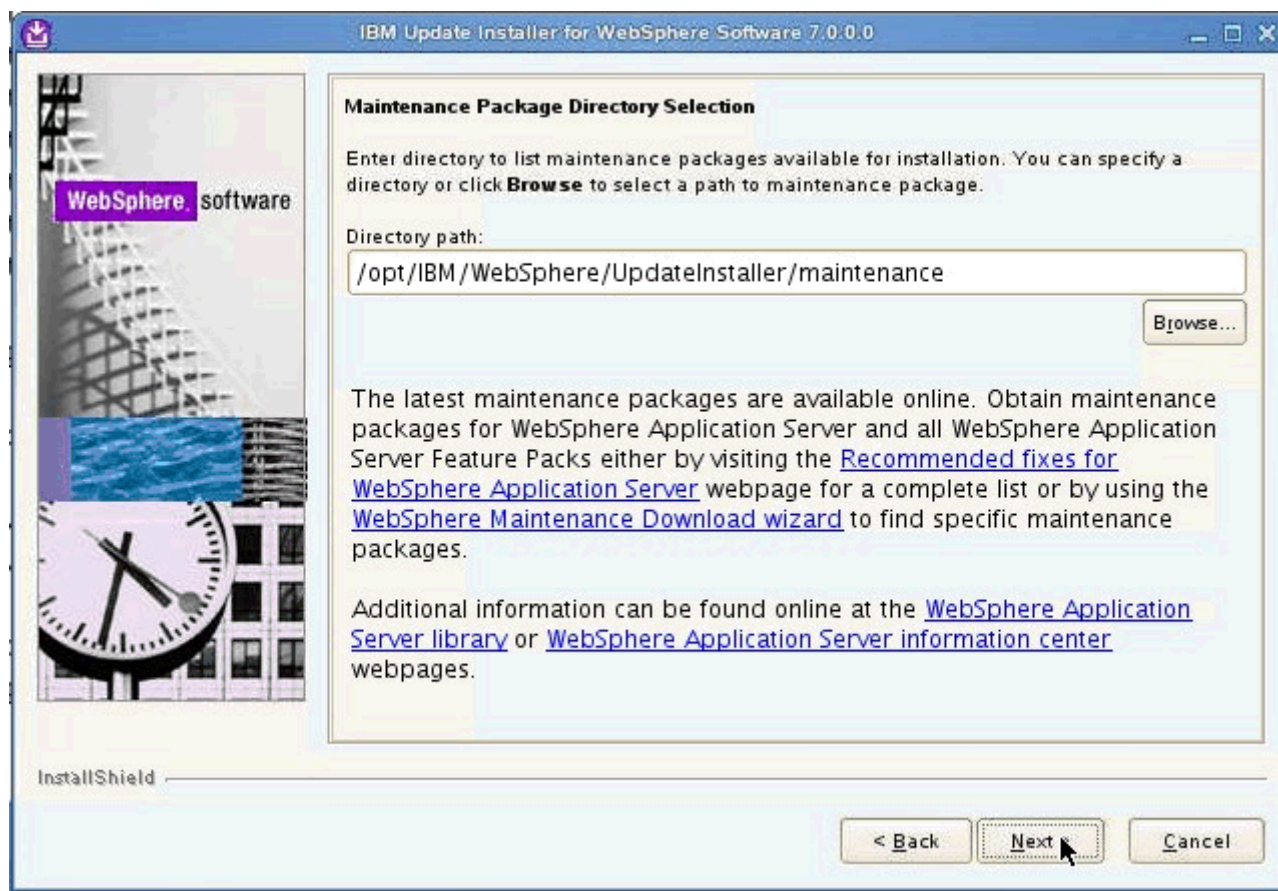


Figure 5. IBM Update Installer for WebSphere Software wizard: Maintenance Package Directory Selection screen

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

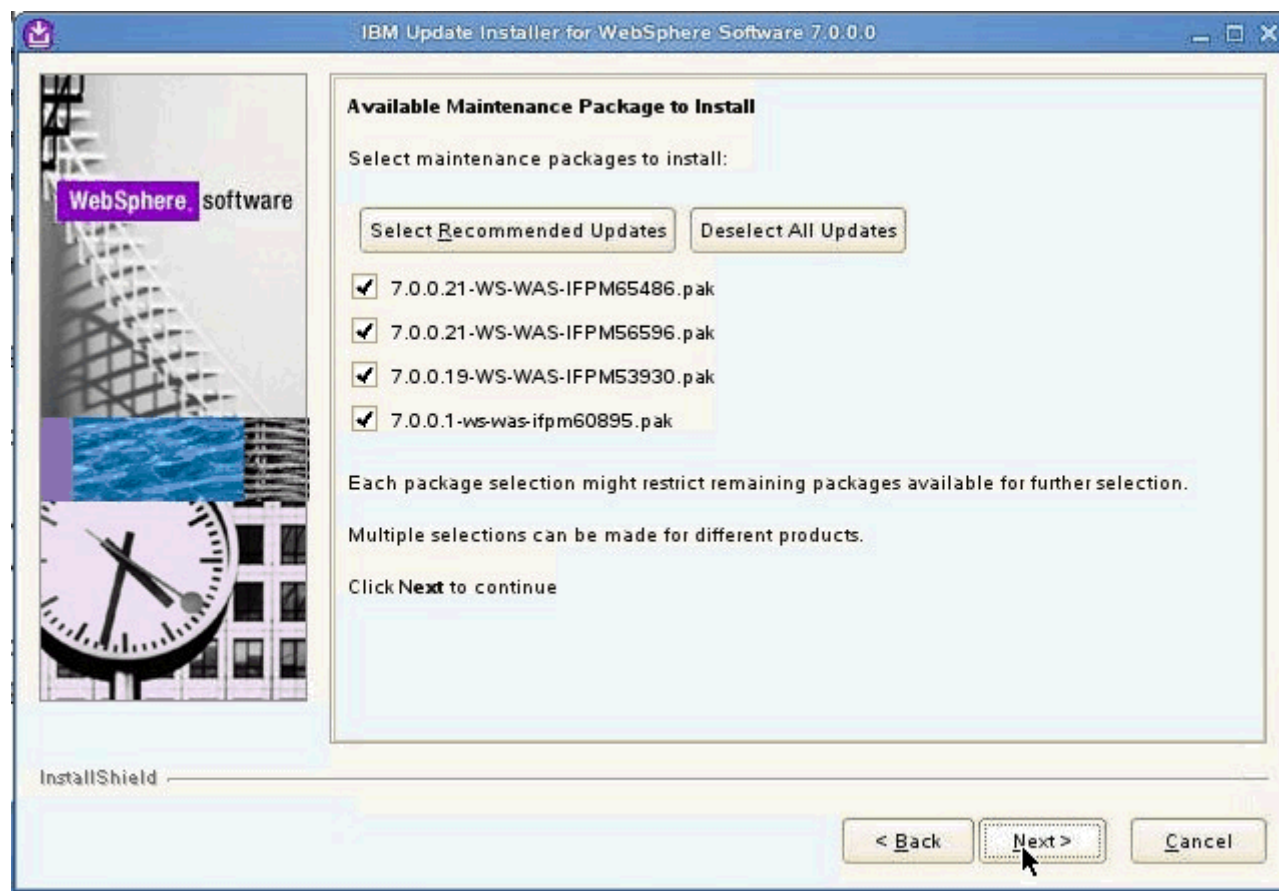


Figure 6. IBM Update Installer for WebSphere Software wizard: Available Maintenance Package to Install screen

The installation wizard checks for prerequisites.

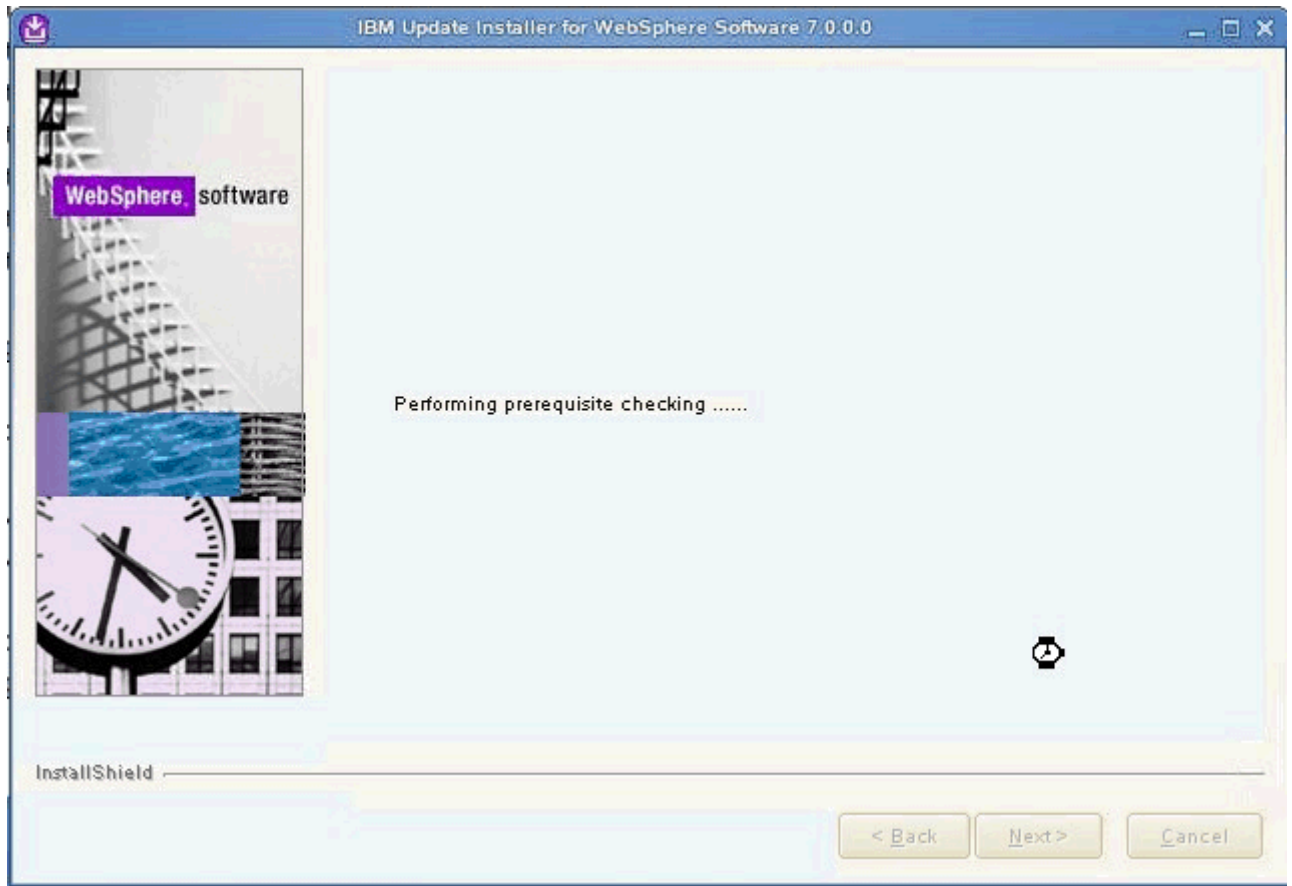


Figure 7. IBM Update Installer for WebSphere Software wizard: Prerequisite checking

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

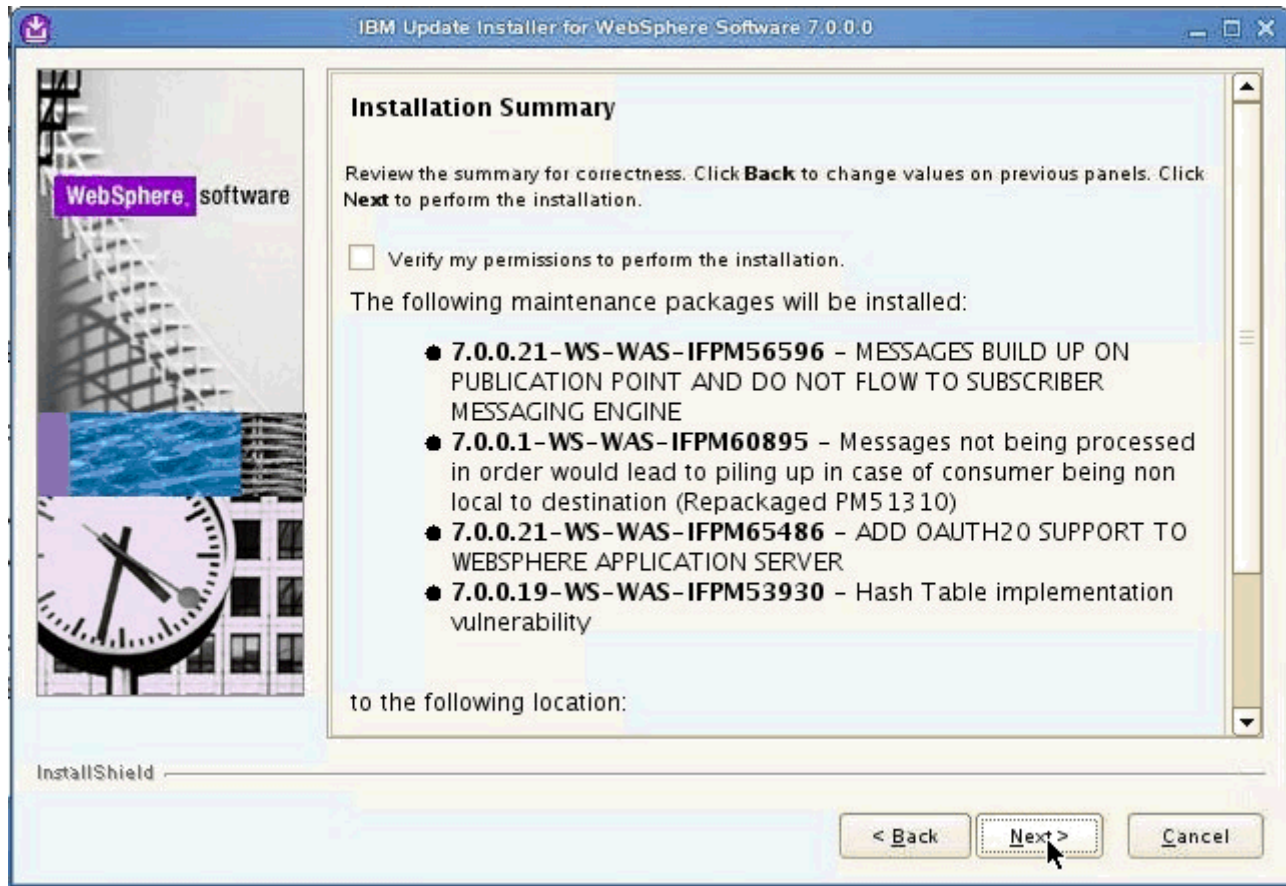


Figure 8. IBM Update Installer for WebSphere Software wizard: Installation summary screen

The installation starts.

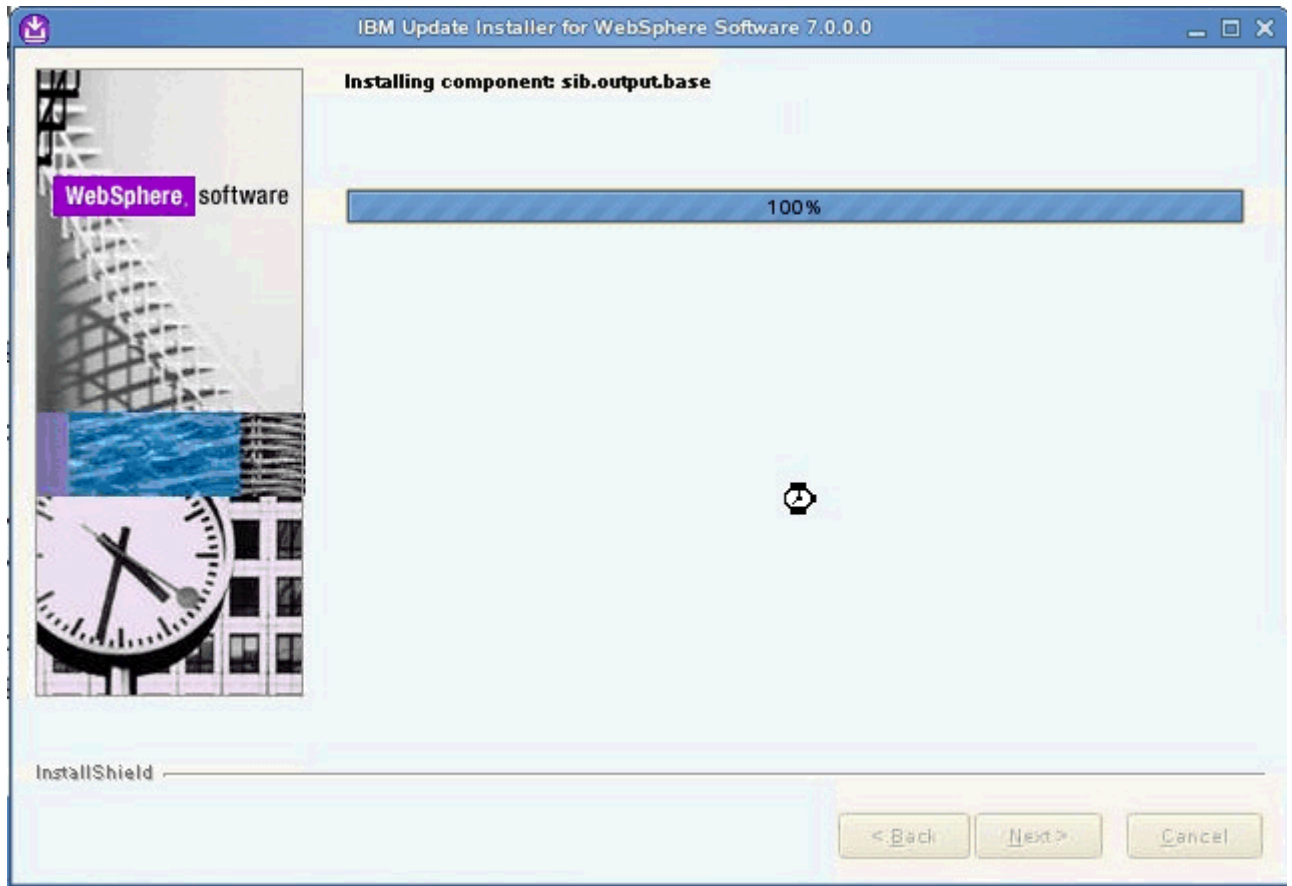


Figure 9. IBM Update Installer for WebSphere Software wizard: Installation in progress

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

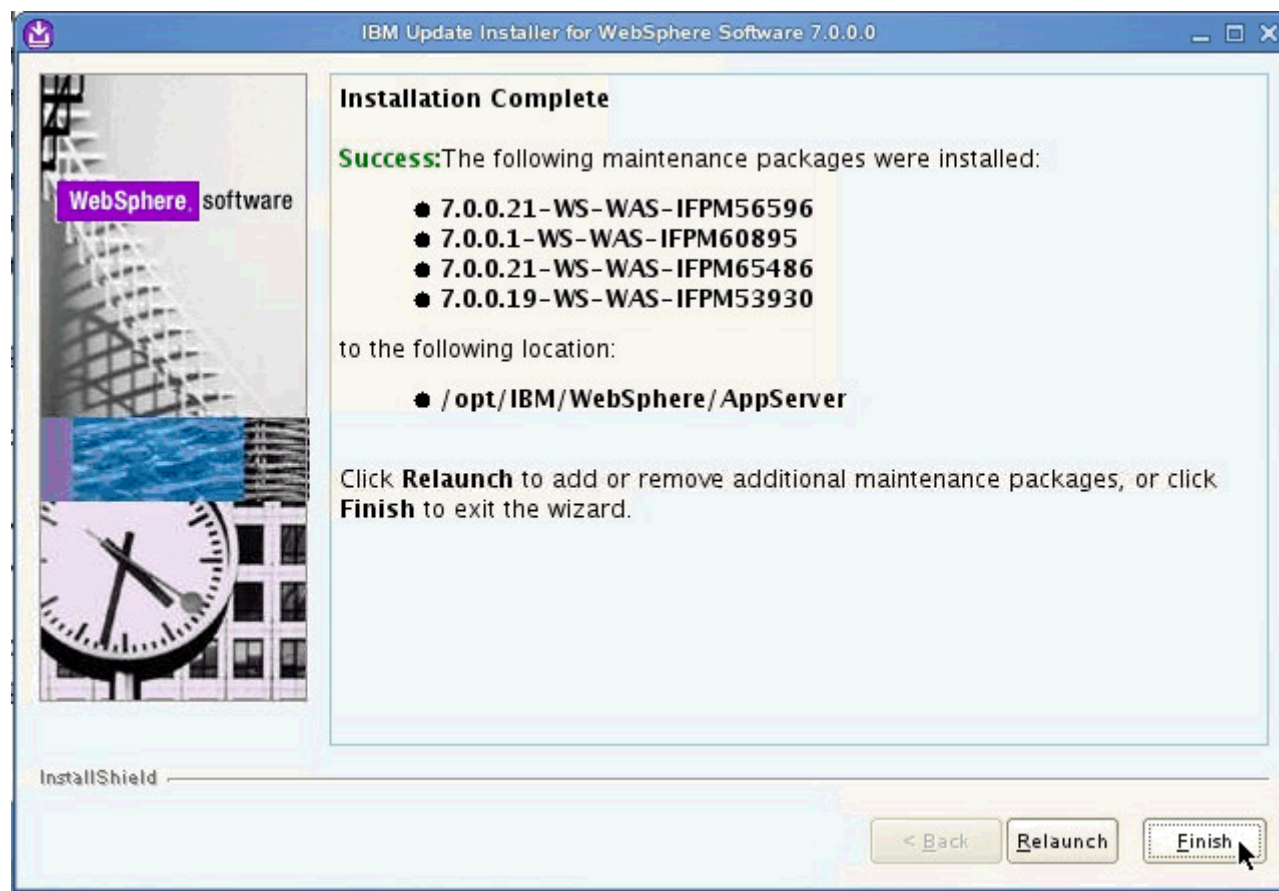


Figure 10. IBM Update Installer for WebSphere Software wizard: Installation completion screen

Install IBM HTTP Server

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

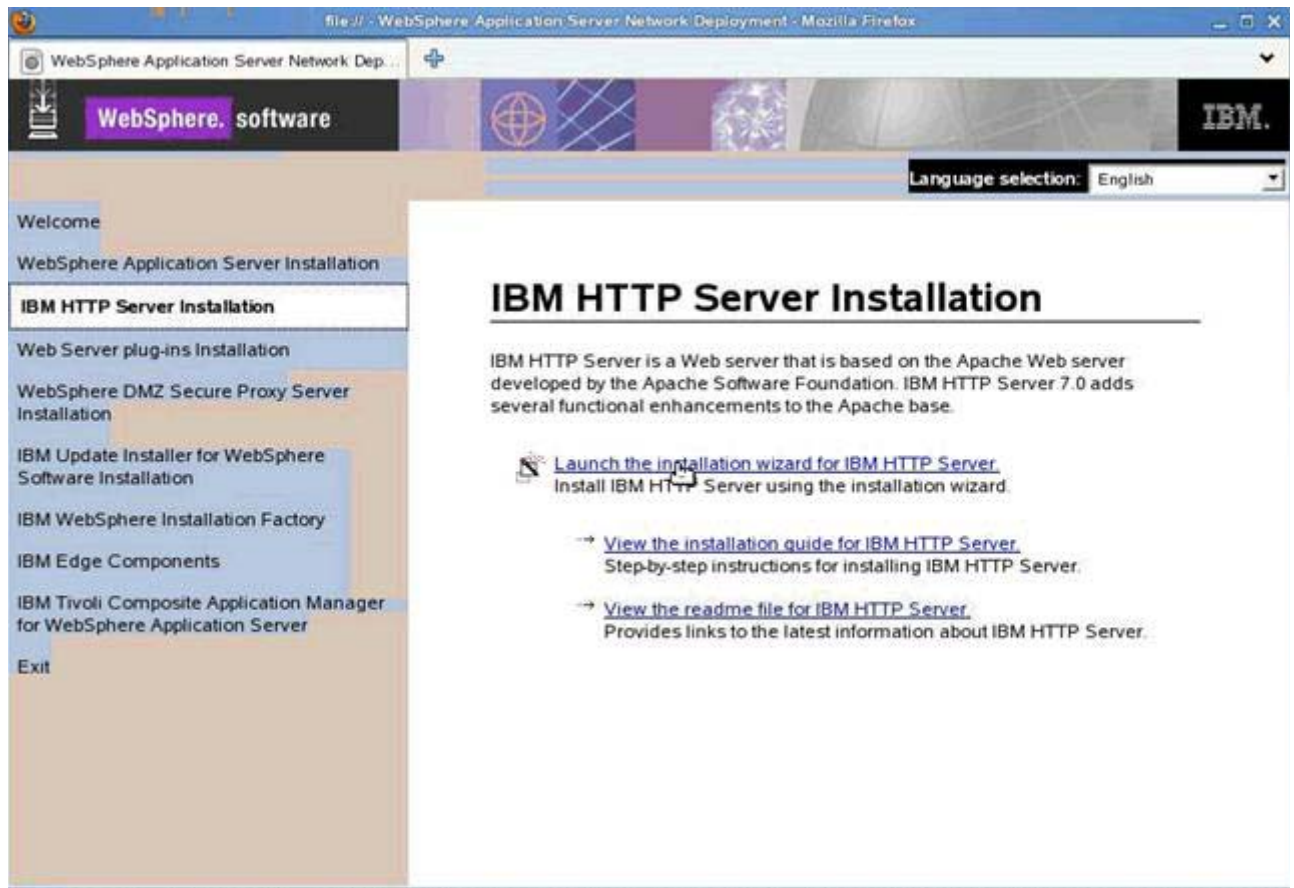


Figure 11. WebSphere Application Server Network Deployment

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

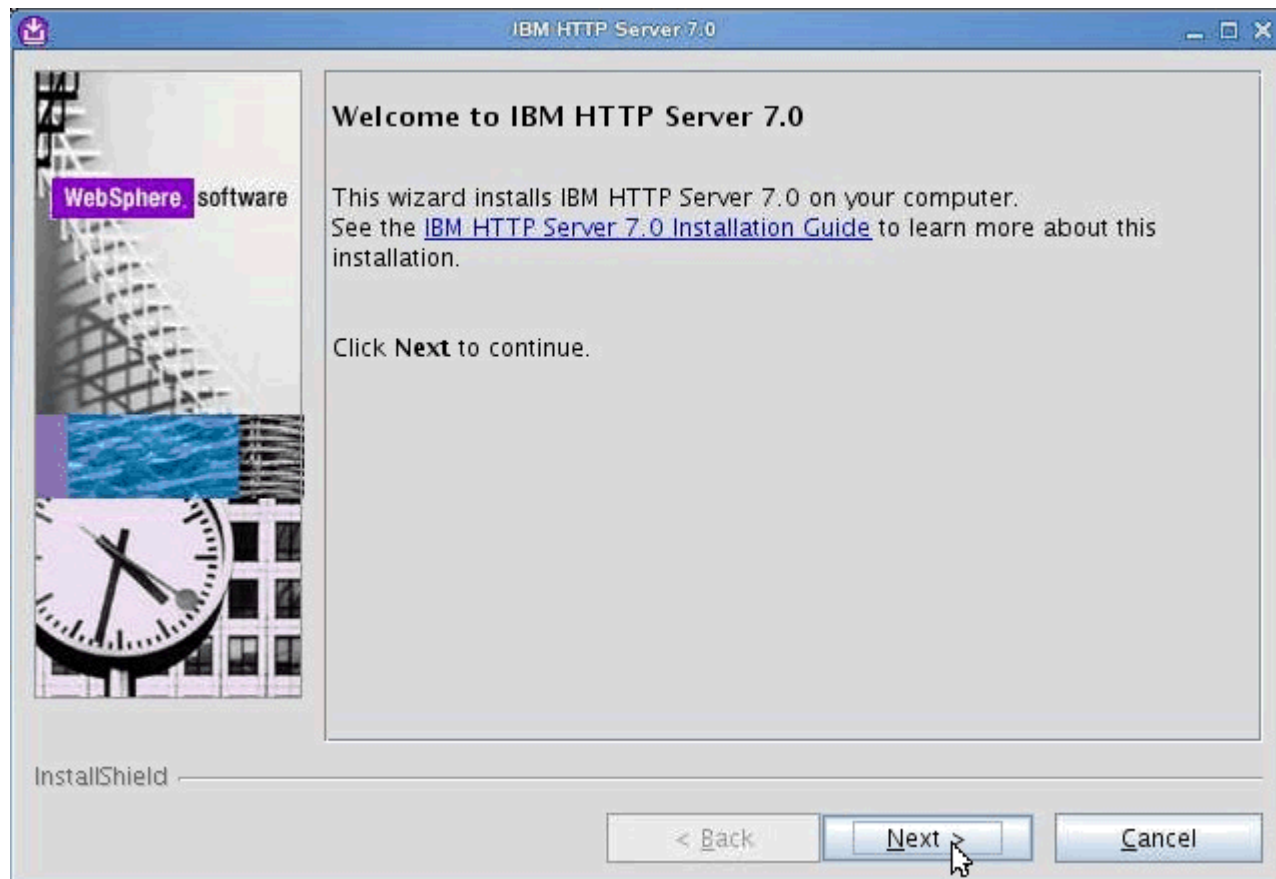


Figure 12. IBM HTTP Server 7.0 installation wizard: Welcome screen

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

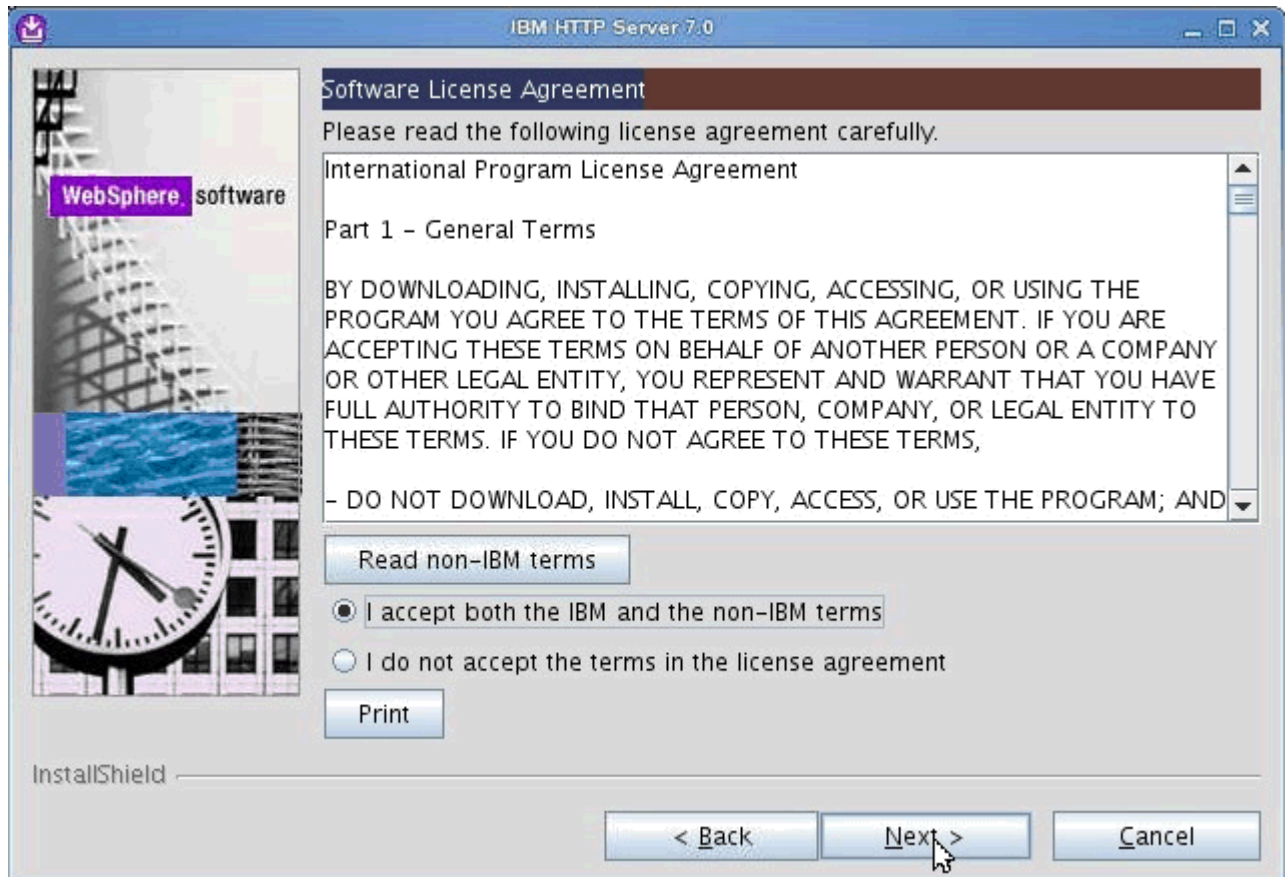


Figure 13. IBM HTTP Server 7.0 installation wizard: Software License Agreement screen

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

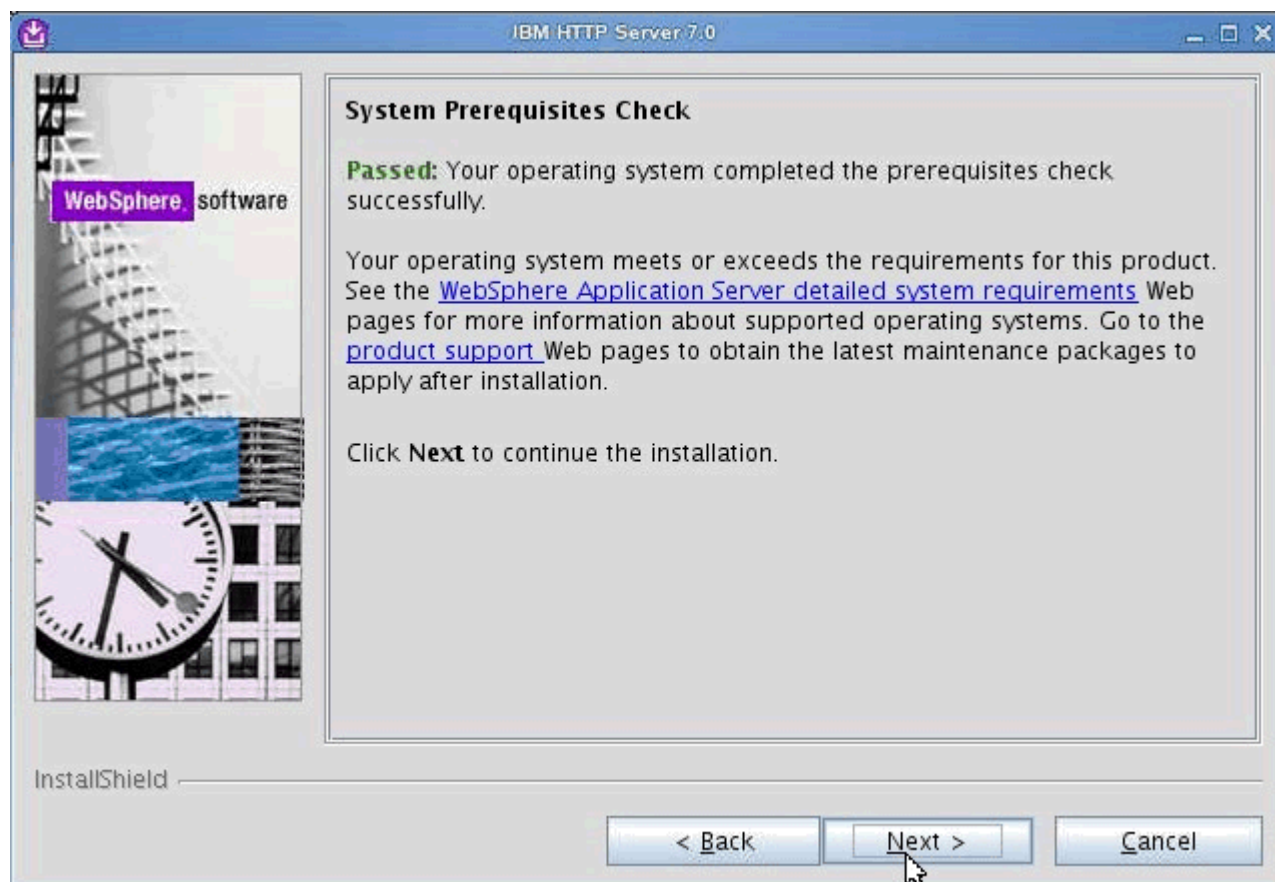


Figure 14. IBM HTTP Server 7.0 installation wizard: System Prerequisites Check screen

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

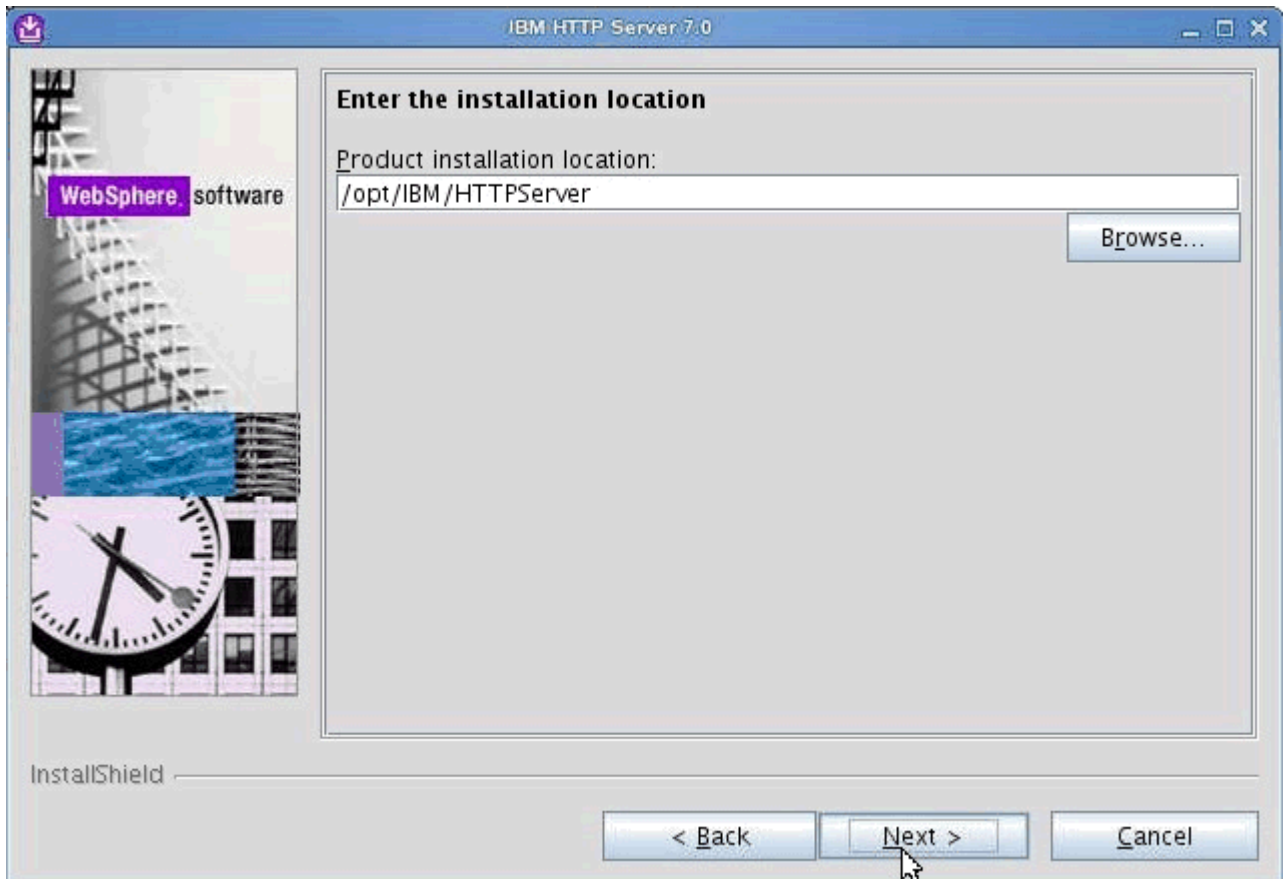


Figure 15. IBM HTTP Server 7.0 installation wizard: Installation location screen

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

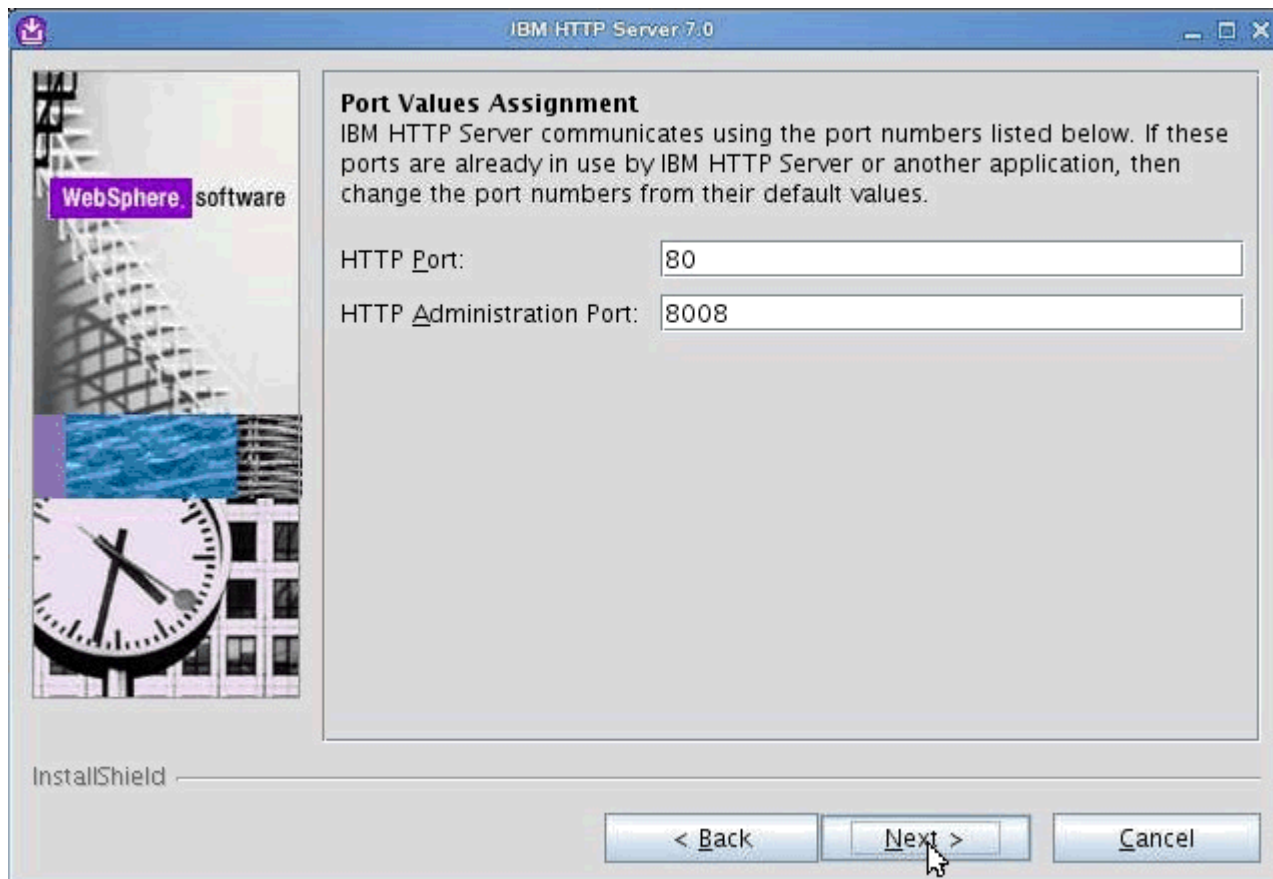


Figure 16. IBM HTTP Server 7.0 installation wizard: Port Values Assignment screen

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

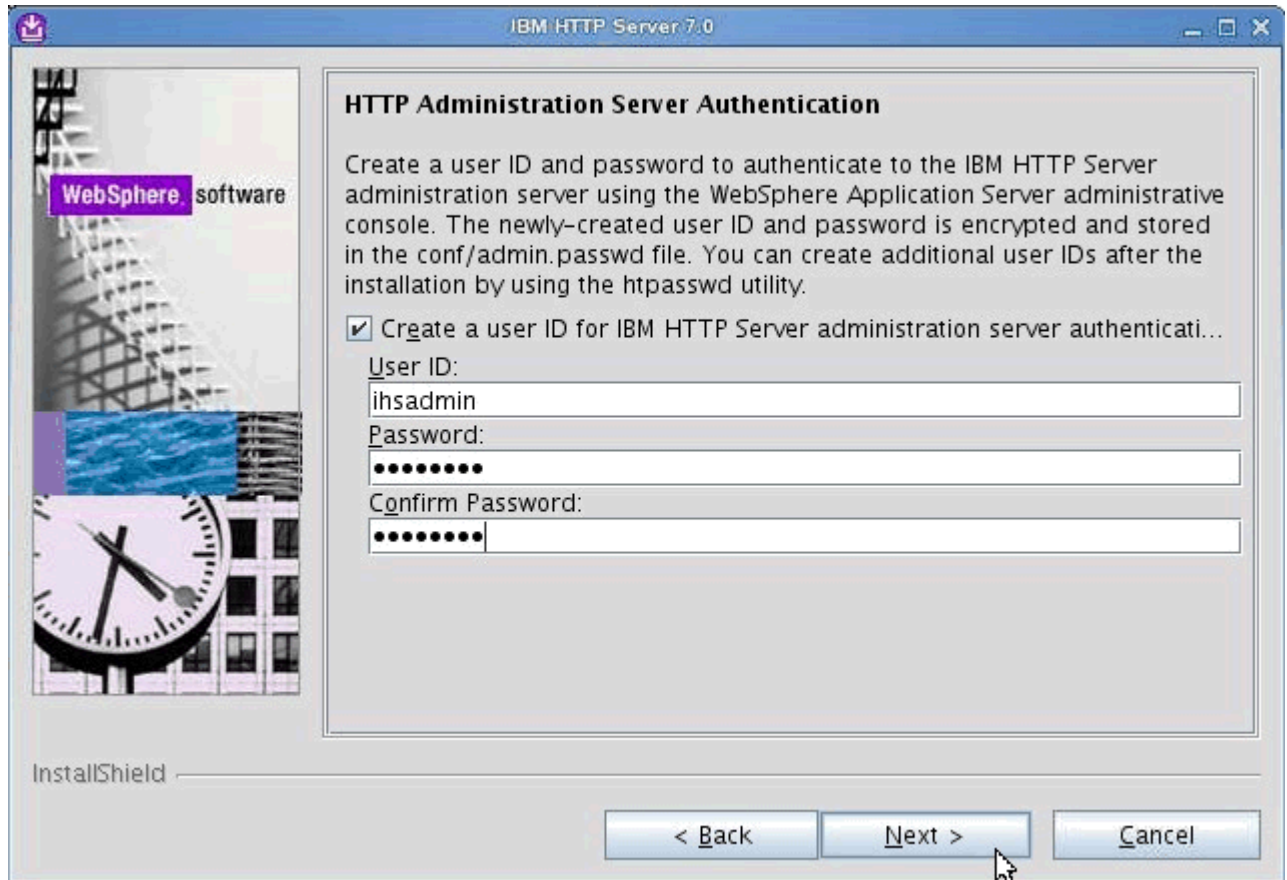


Figure 17. IBM HTTP Server 7.0 installation wizard: HTTP Administration server Authentication screen

8. Setup IBM HTTP Server administration server and click **Next**.

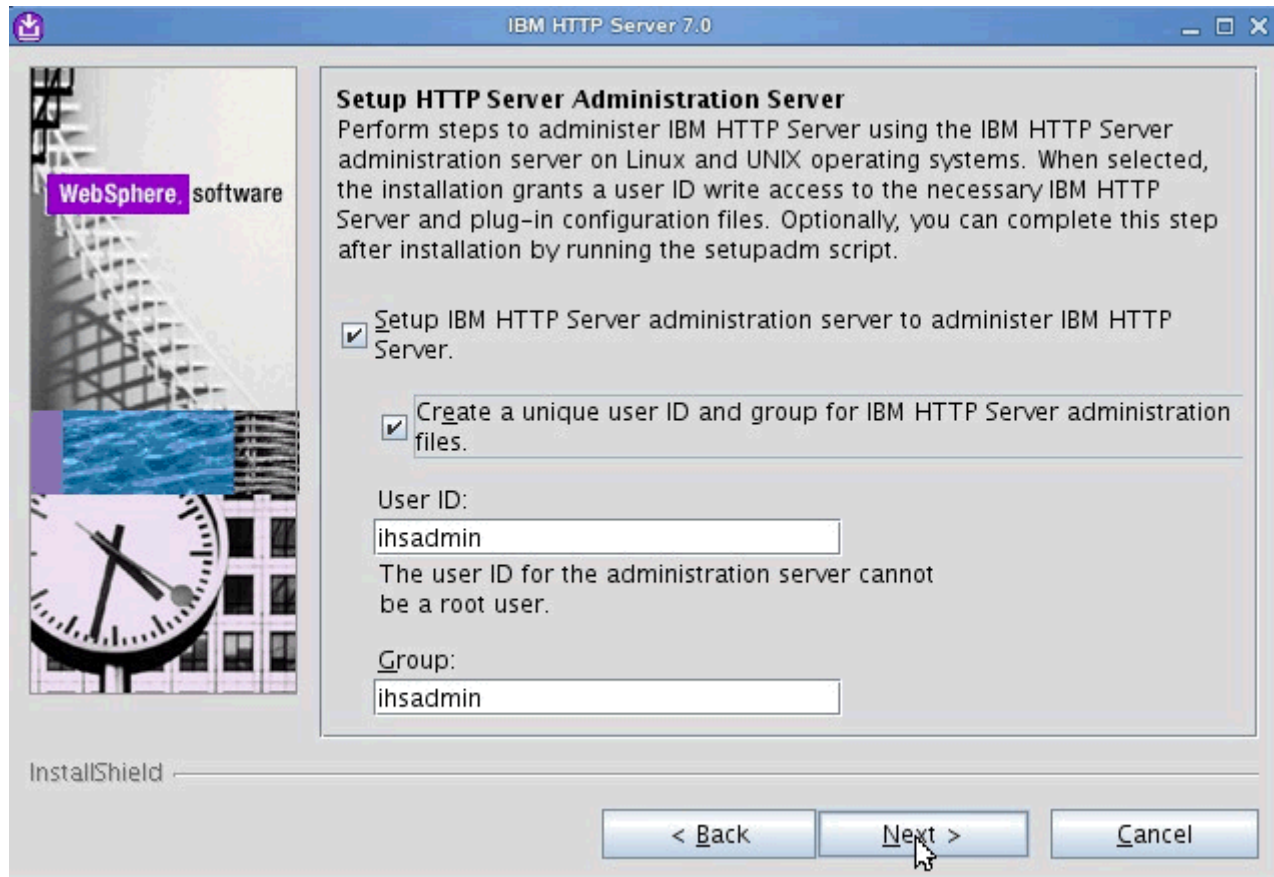


Figure 18. IBM HTTP Server 7.0 installation wizard: Setup HTTP Server Administration server screen

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

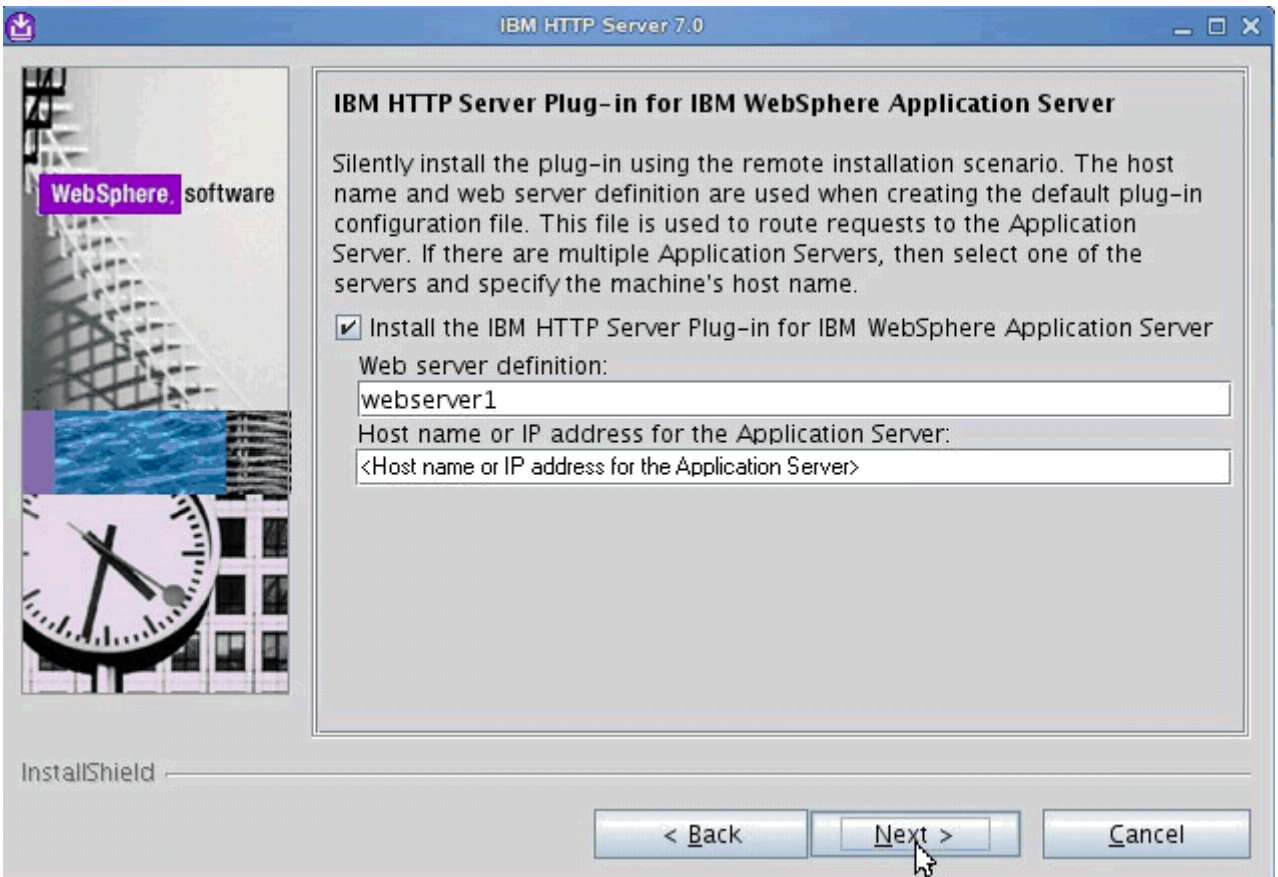


Figure 19. IBM HTTP Server 7.0 installation wizard: IBM HTTP Server plug-in for IBM WebSphere Application Server screen

The installation begins.

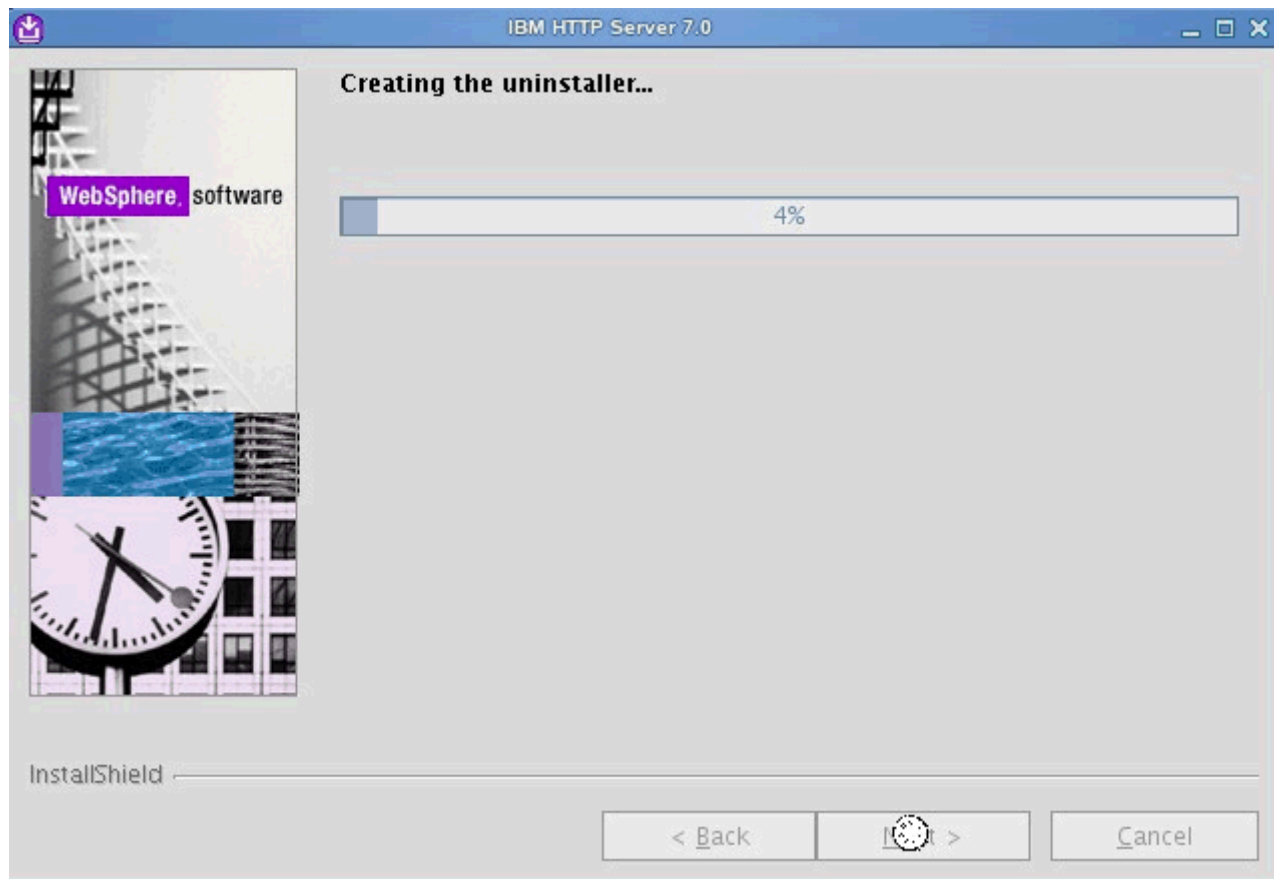


Figure 20. IBM HTTP Server 7.0 installation wizard: Installation in progress screen

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

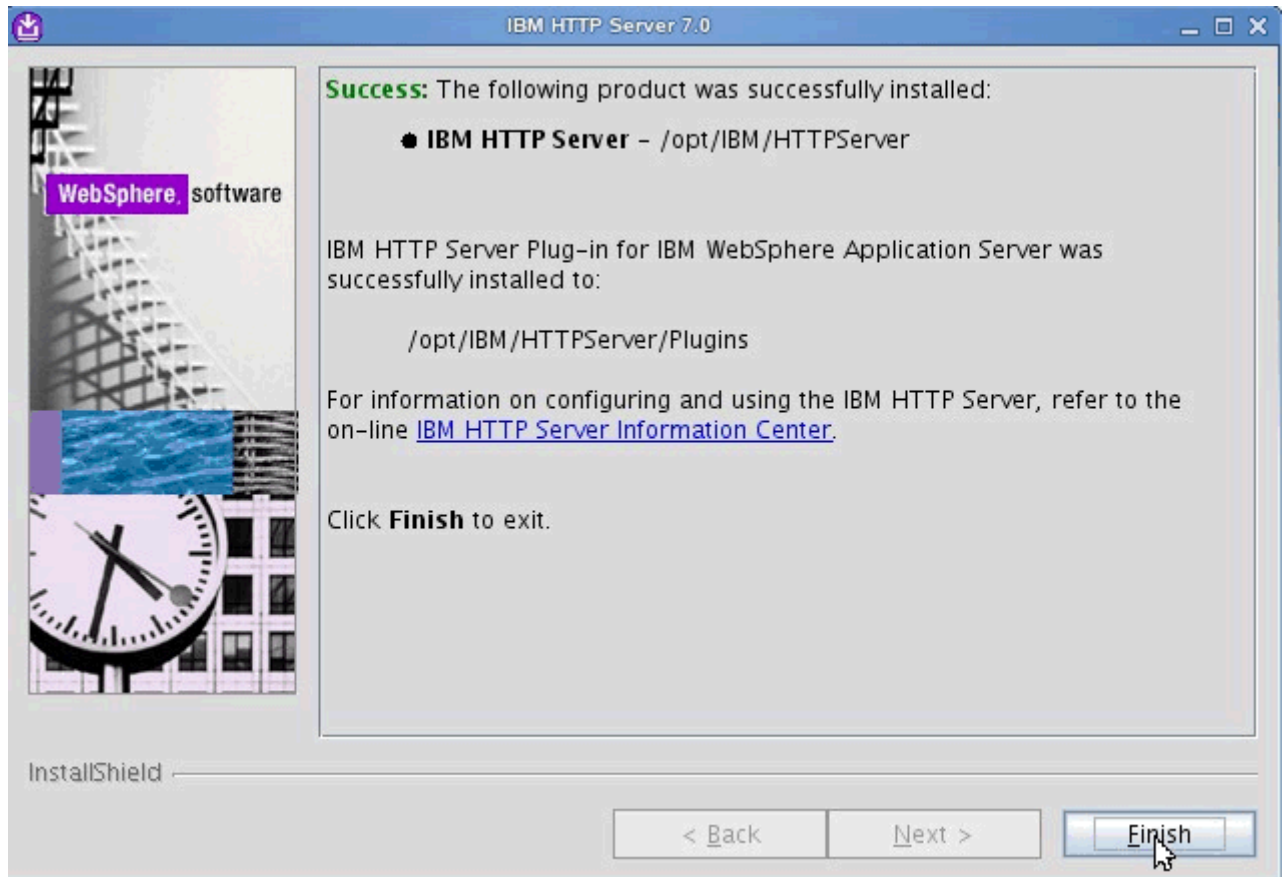


Figure 21. IBM HTTP Server 7.0 installation wizard: Installation completion screen

Install fix pack for IBM HTTP Server

Install Update Installer

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

```
/opt/IBM/UpdateInstaller  
bash-3.2# ./update.sh
```

Figure 22. 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**.

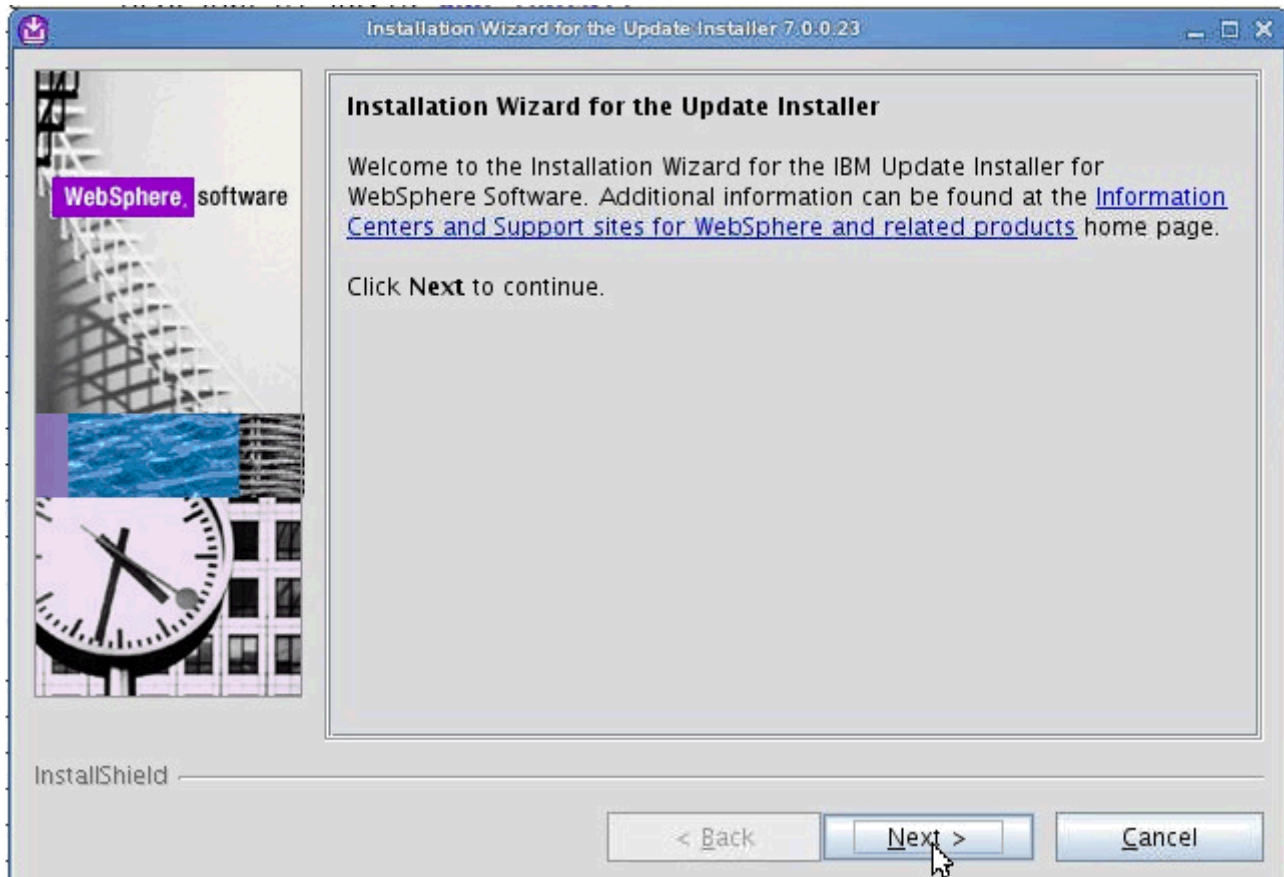


Figure 23. Installation Wizard for the Update Installer: Welcome screen

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

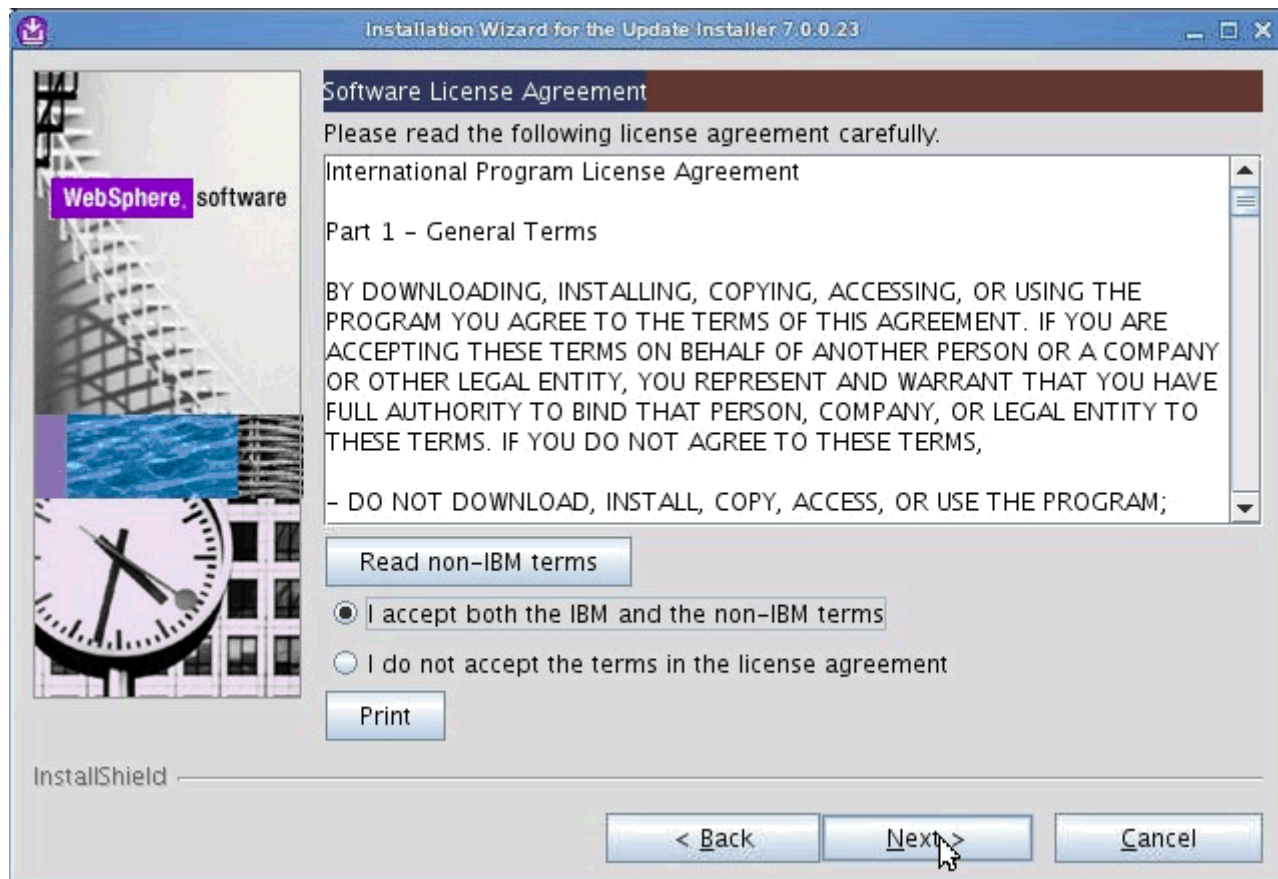


Figure 24. Installation Wizard for the Update Installer: Software License Agreement screen

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

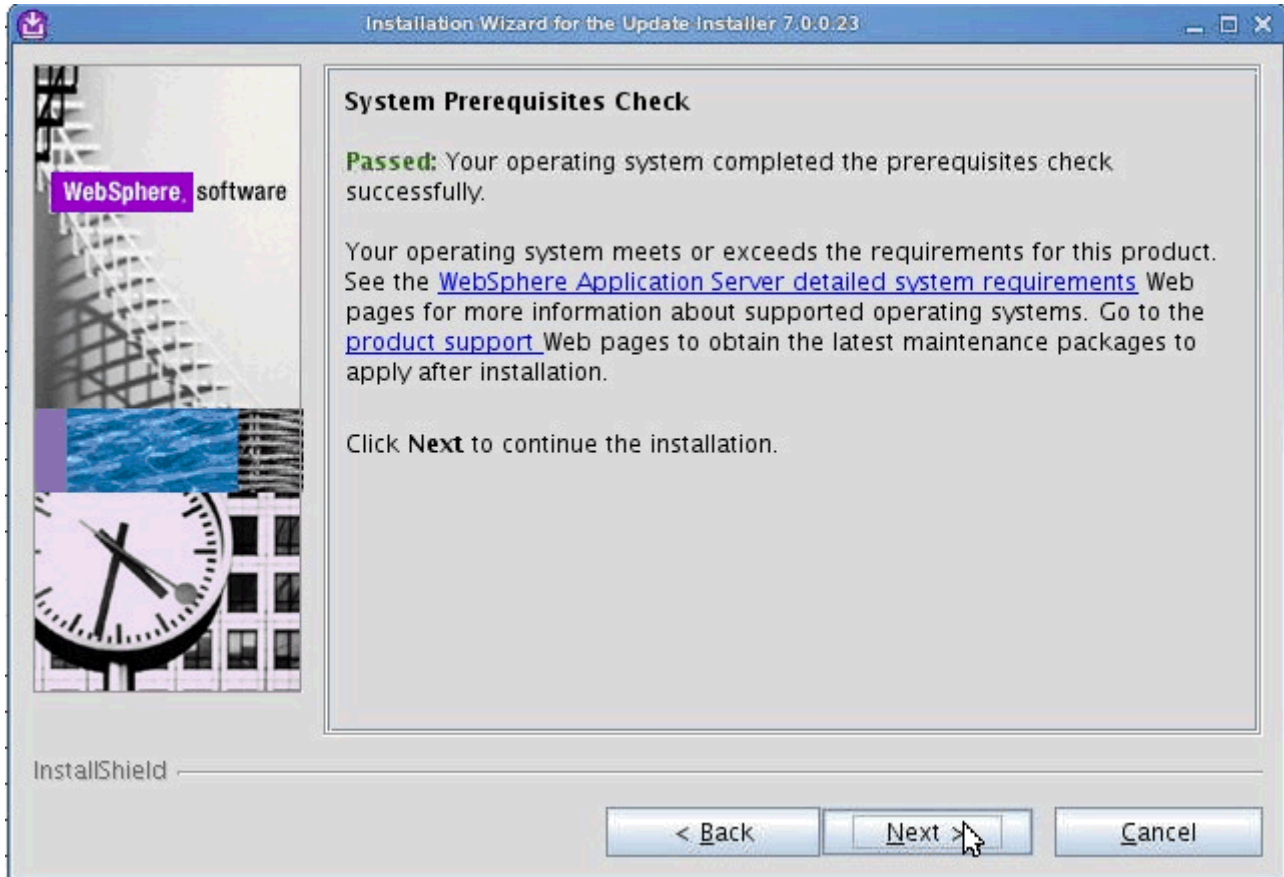


Figure 25. Installation Wizard for the Update Installer: System Prerequisites Check screen

5. Select the directory to install the product and click **Next**.

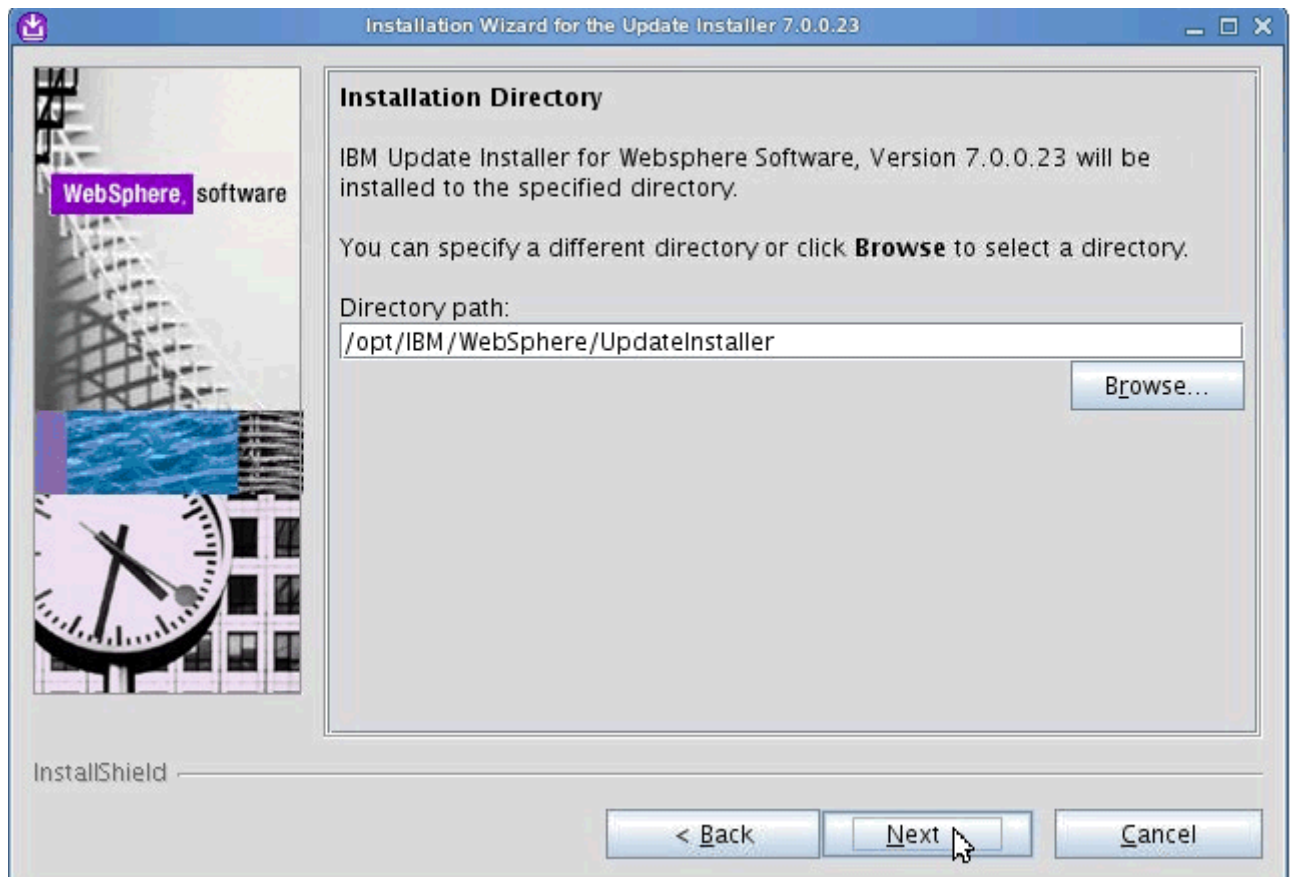


Figure 26. Installation Wizard for the Update Installer: Installation Directory screen

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

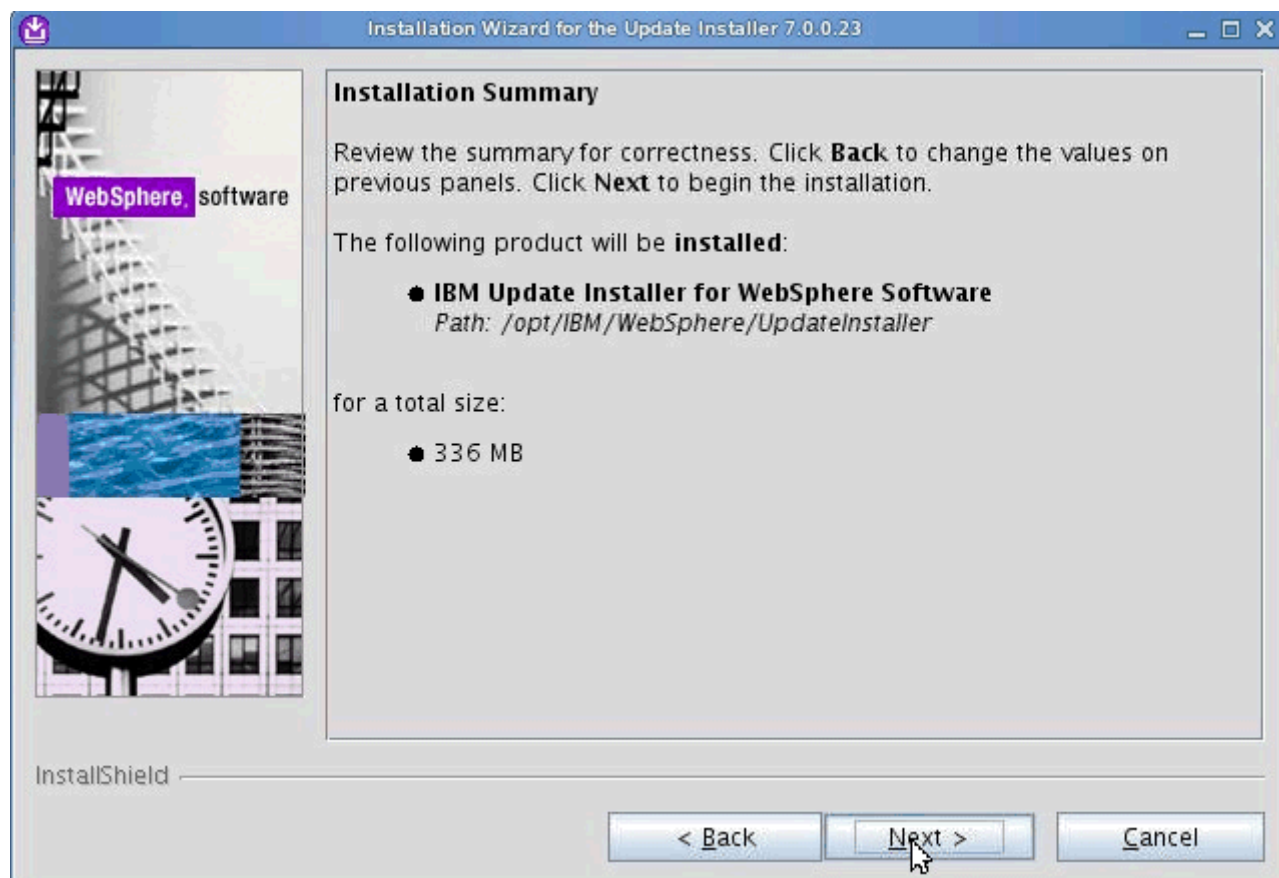


Figure 27. Installation Wizard for the Update Installer: Installation Summary screen

The installation begins.

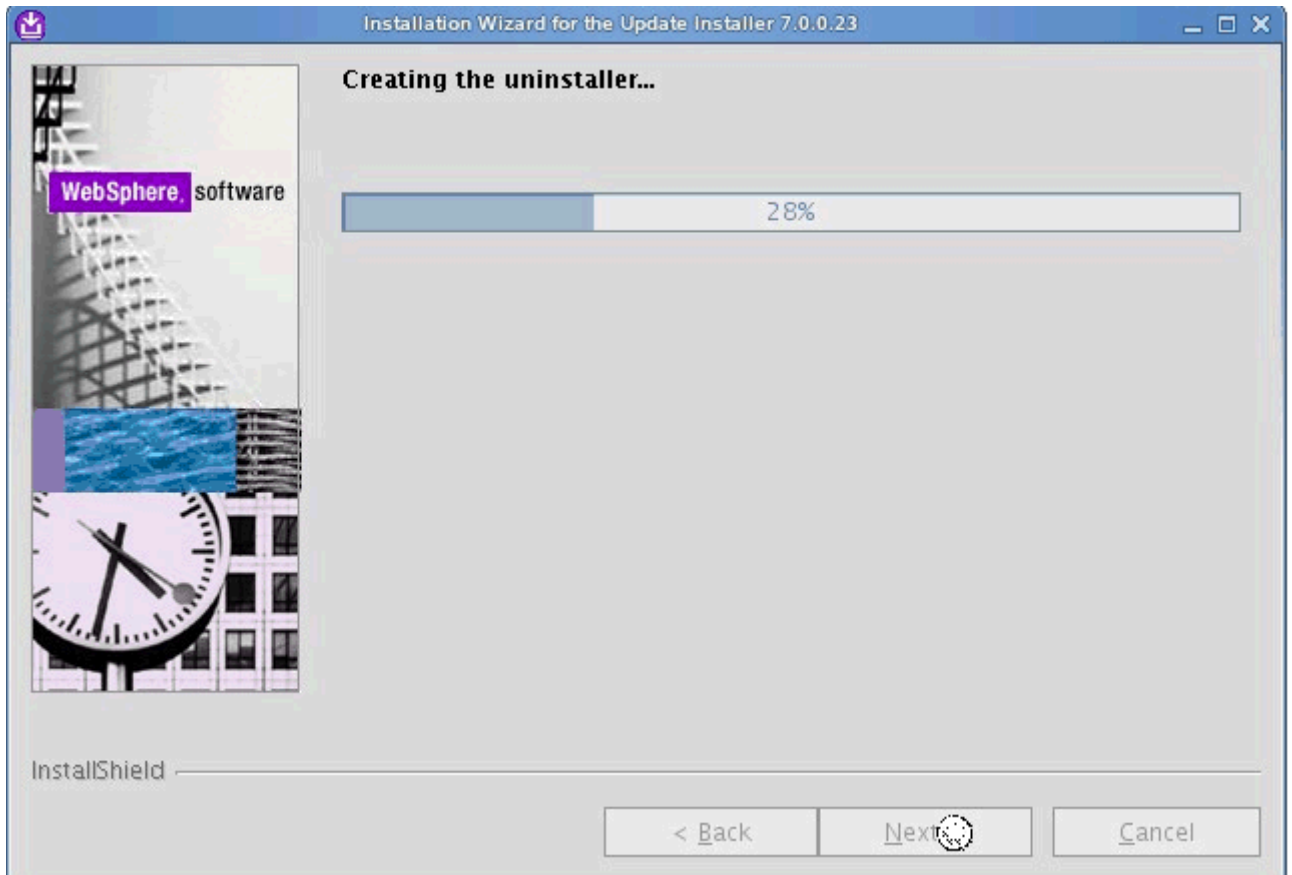


Figure 28. Installation Wizard for the Update Installer: Installation in progress screen

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

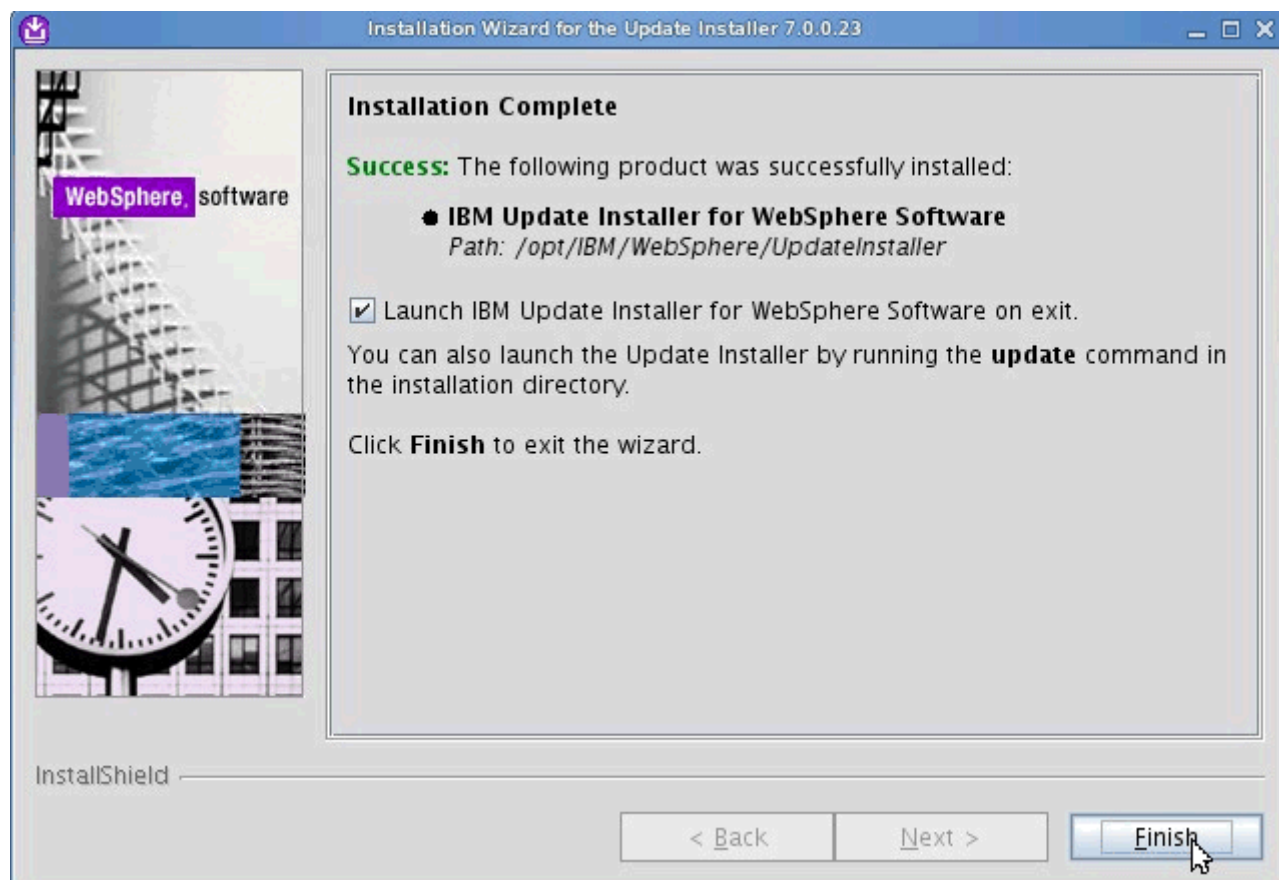


Figure 29. Installation Wizard for the Update Installer: Installation Complete screen

You must also install the IBM Update Installer for WebSphere Software, by following these steps:

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

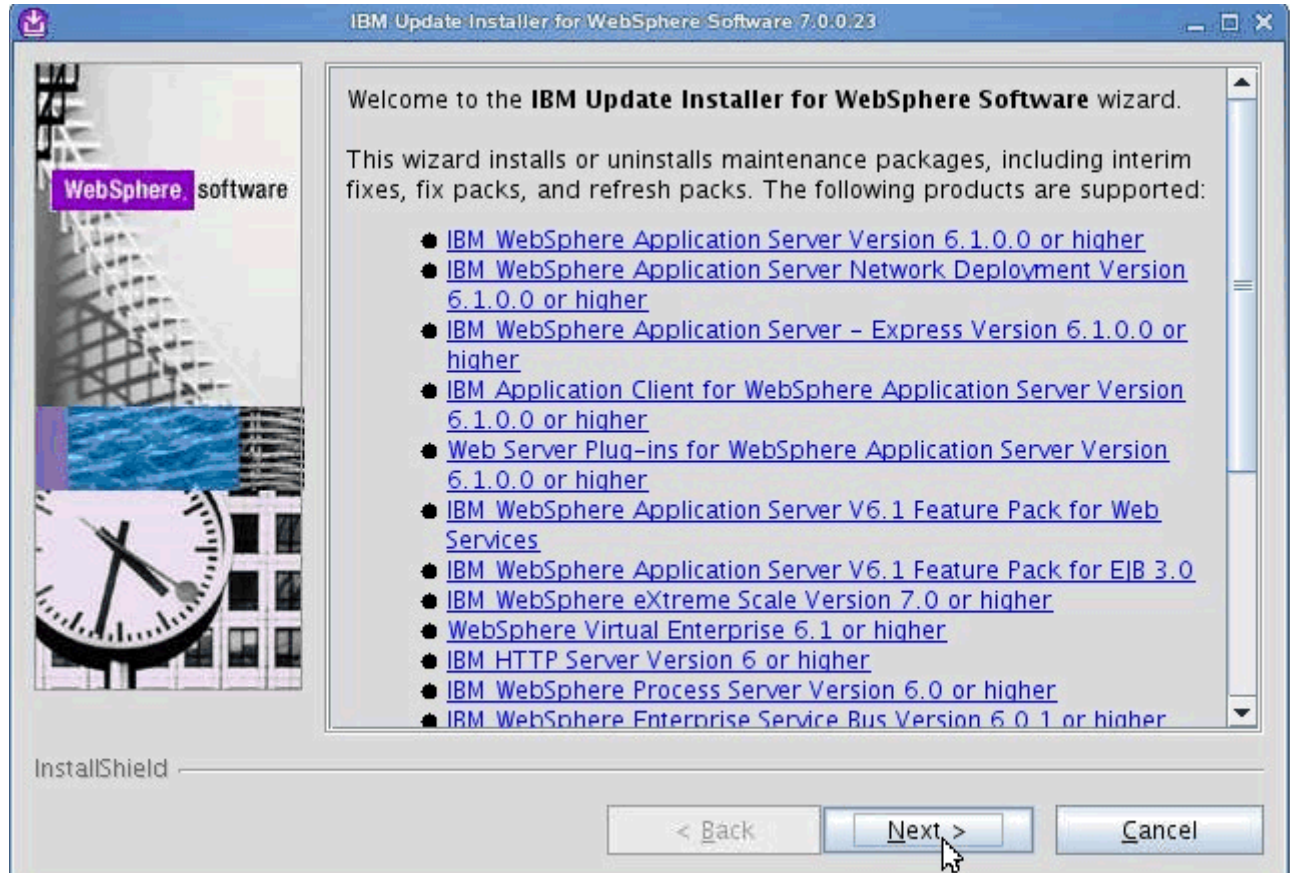


Figure 30. IBM Update Installer for WebSphere Software wizard: Welcome screen

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

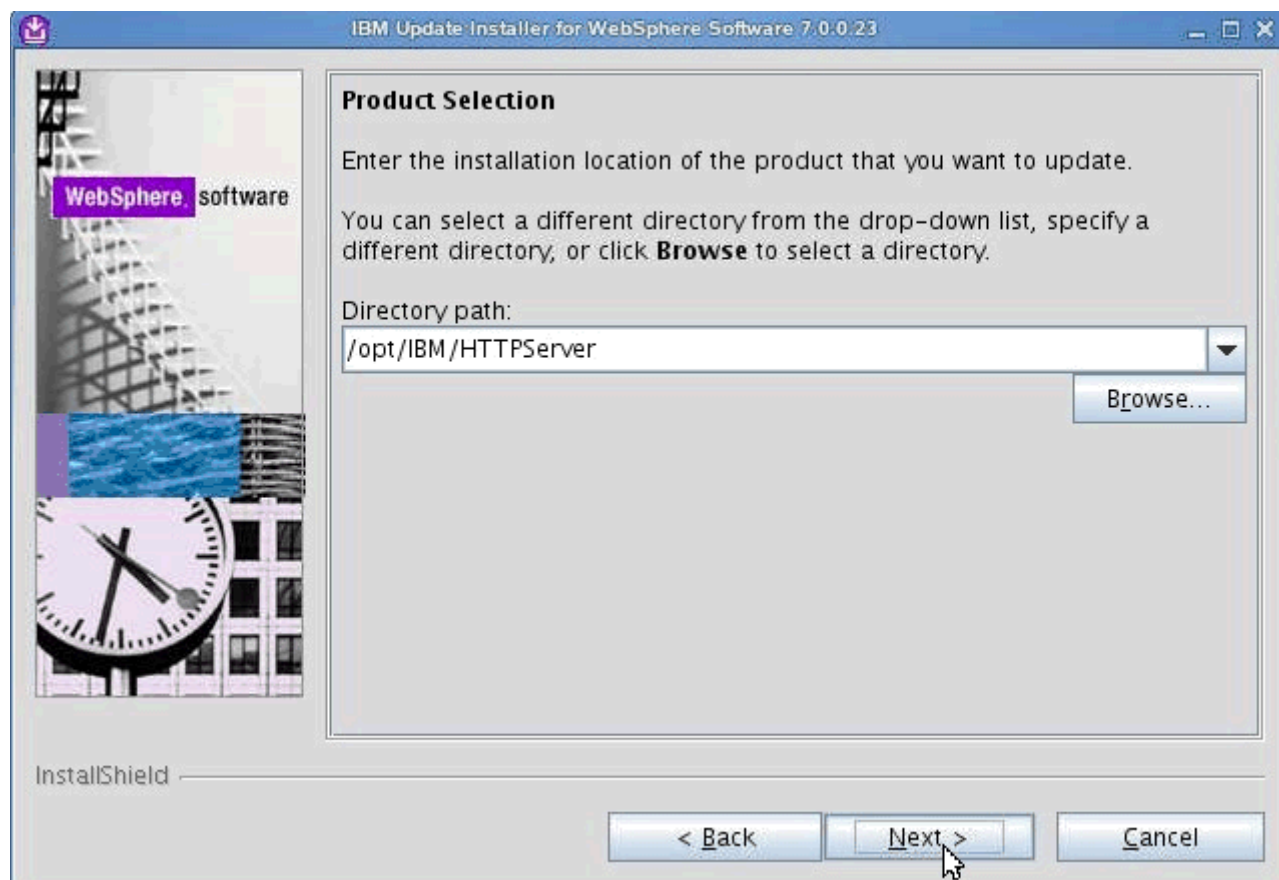


Figure 31. IBM Update Installer for WebSphere Software wizard: Product Selection screen

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

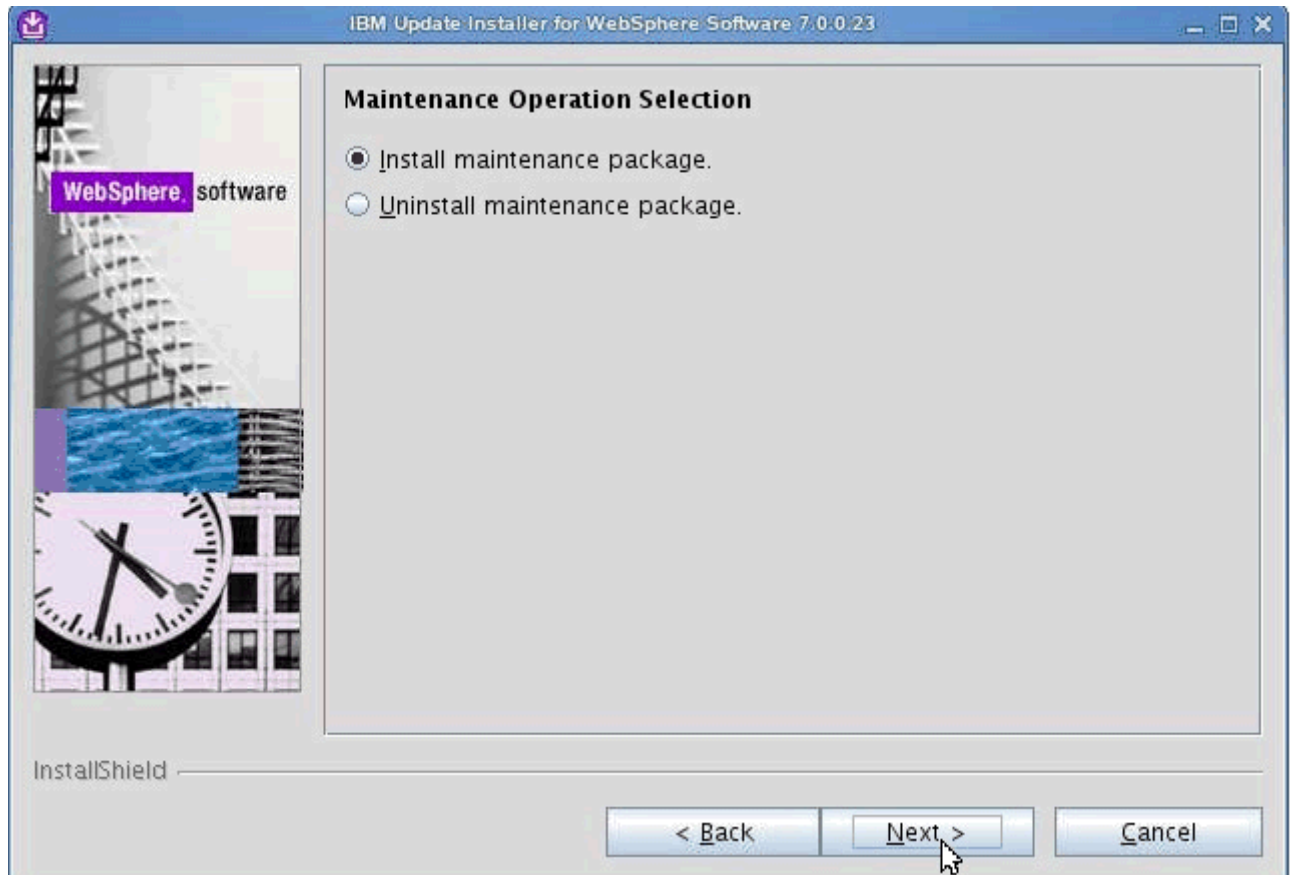


Figure 32. IBM Update Installer for WebSphere Software wizard: Maintenance Operation Selection screen

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

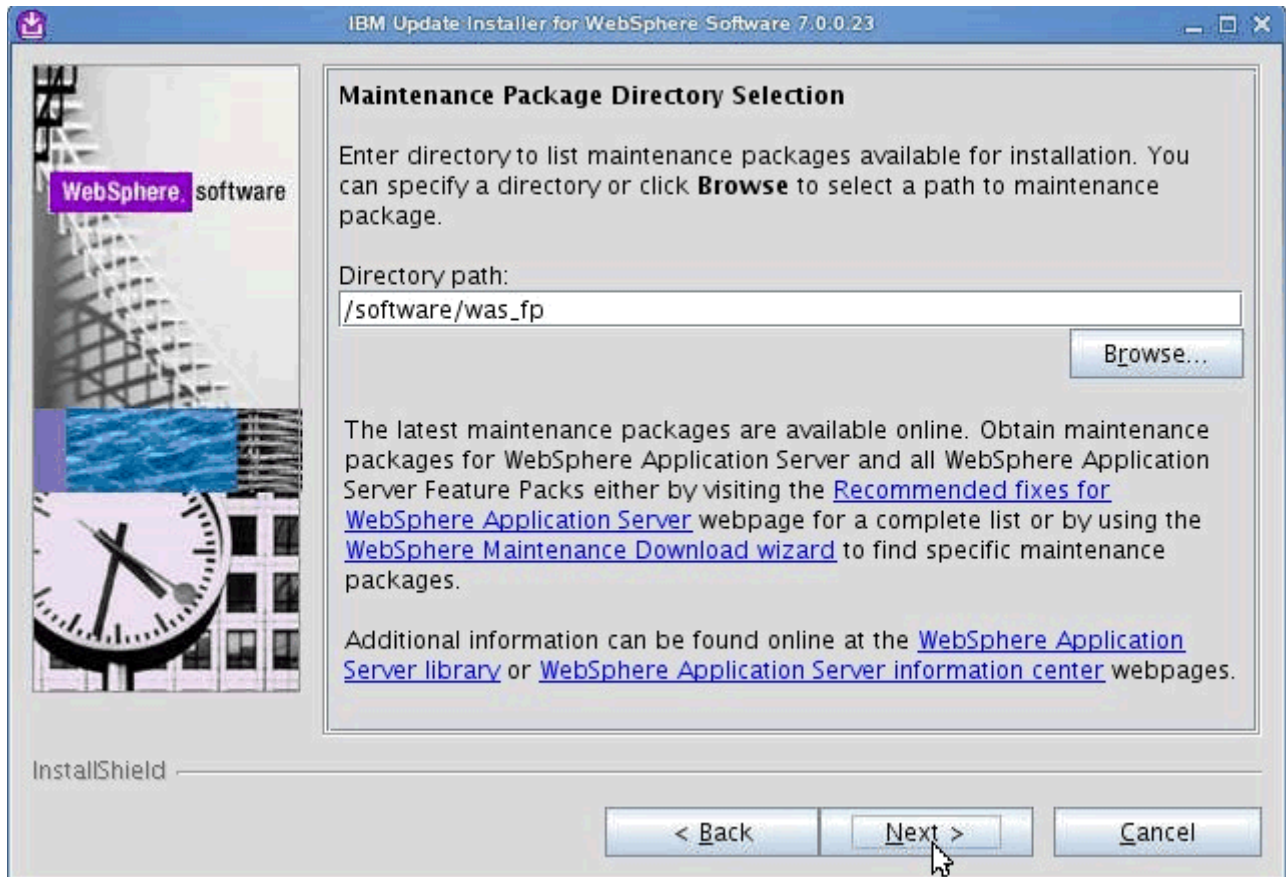


Figure 33. IBM Update Installer for WebSphere Software wizard: Maintenance Package Directory screen

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

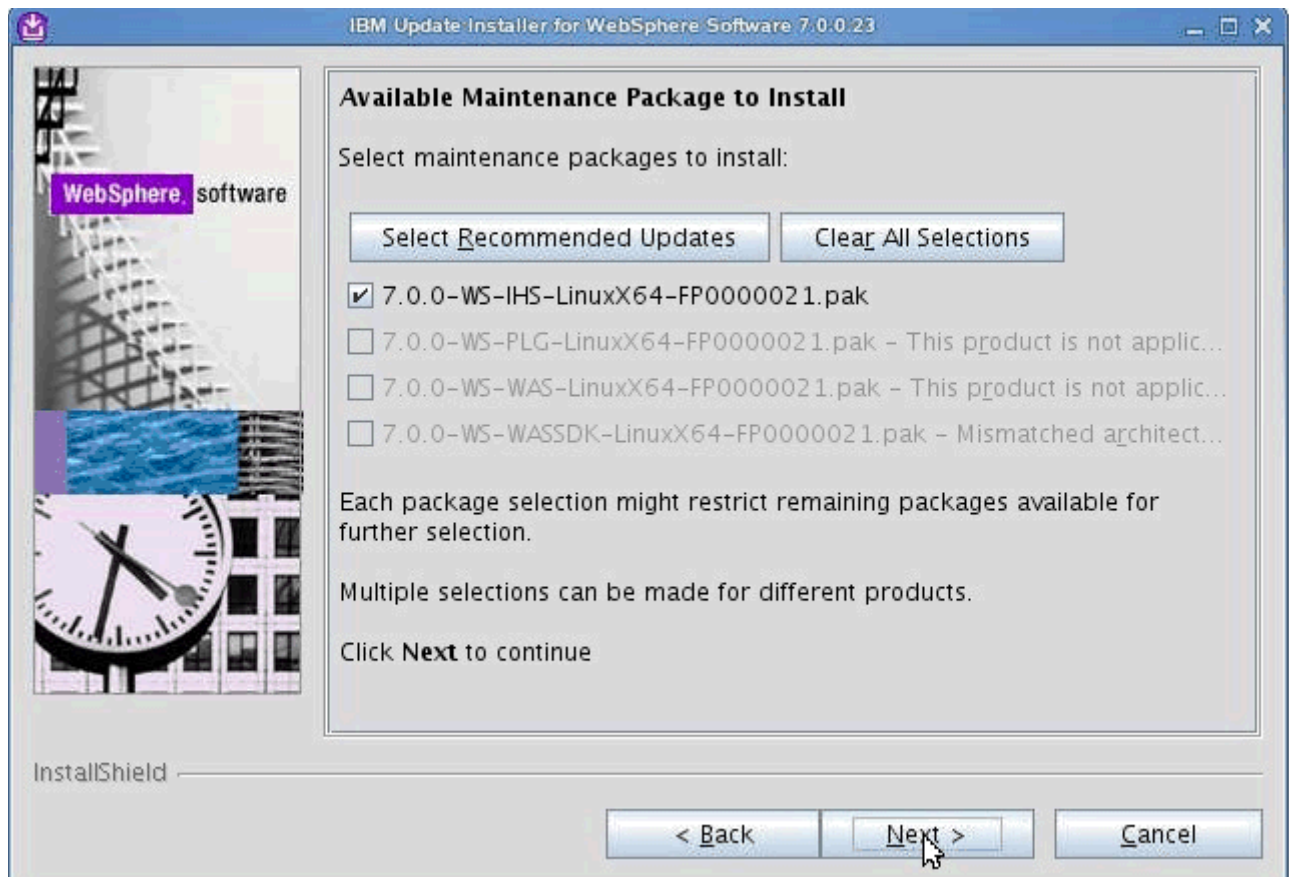


Figure 34. IBM Update Installer for WebSphere Software wizard: Available Maintenance Package to Install screen

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

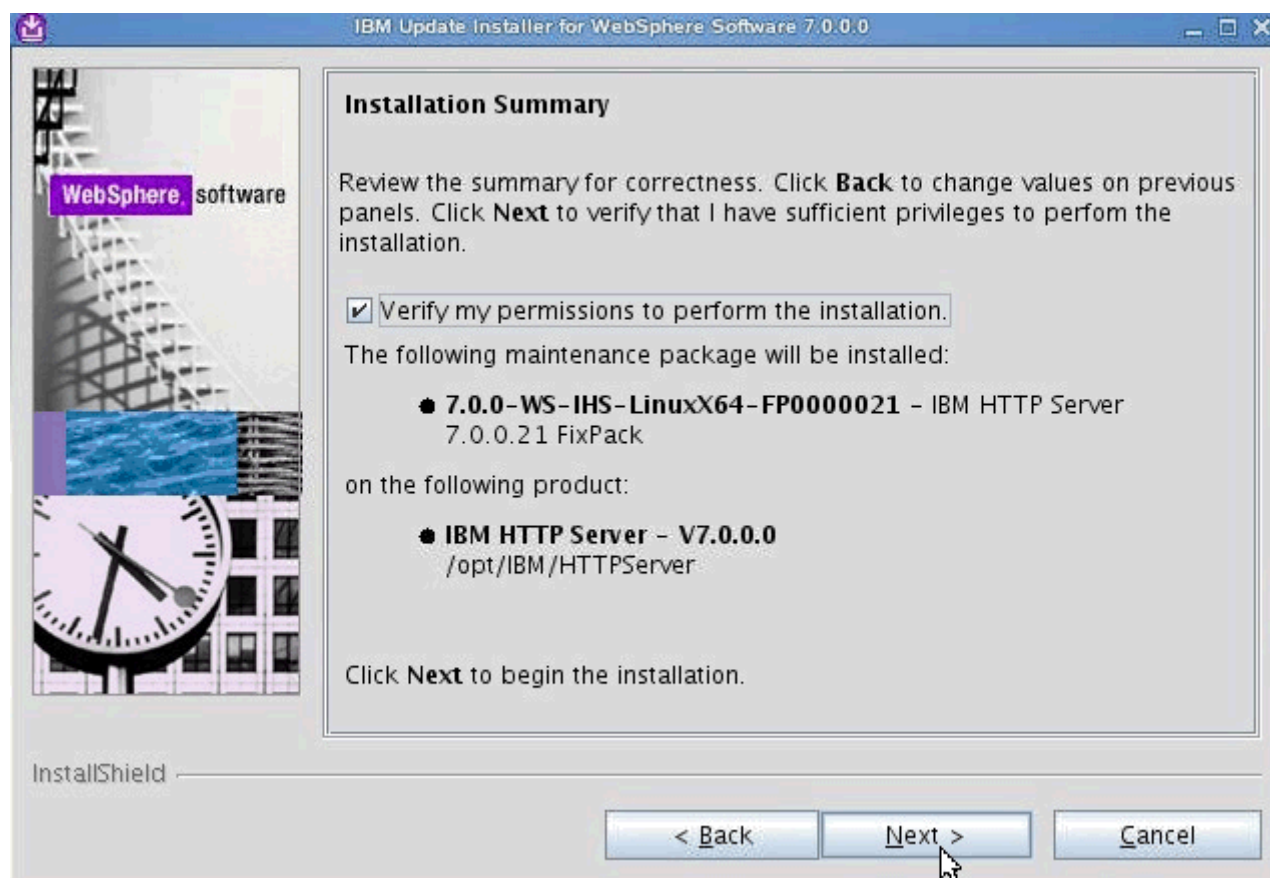


Figure 35. IBM Update Installer for WebSphere Software wizard: Installation Summary screen (1 of 2)

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

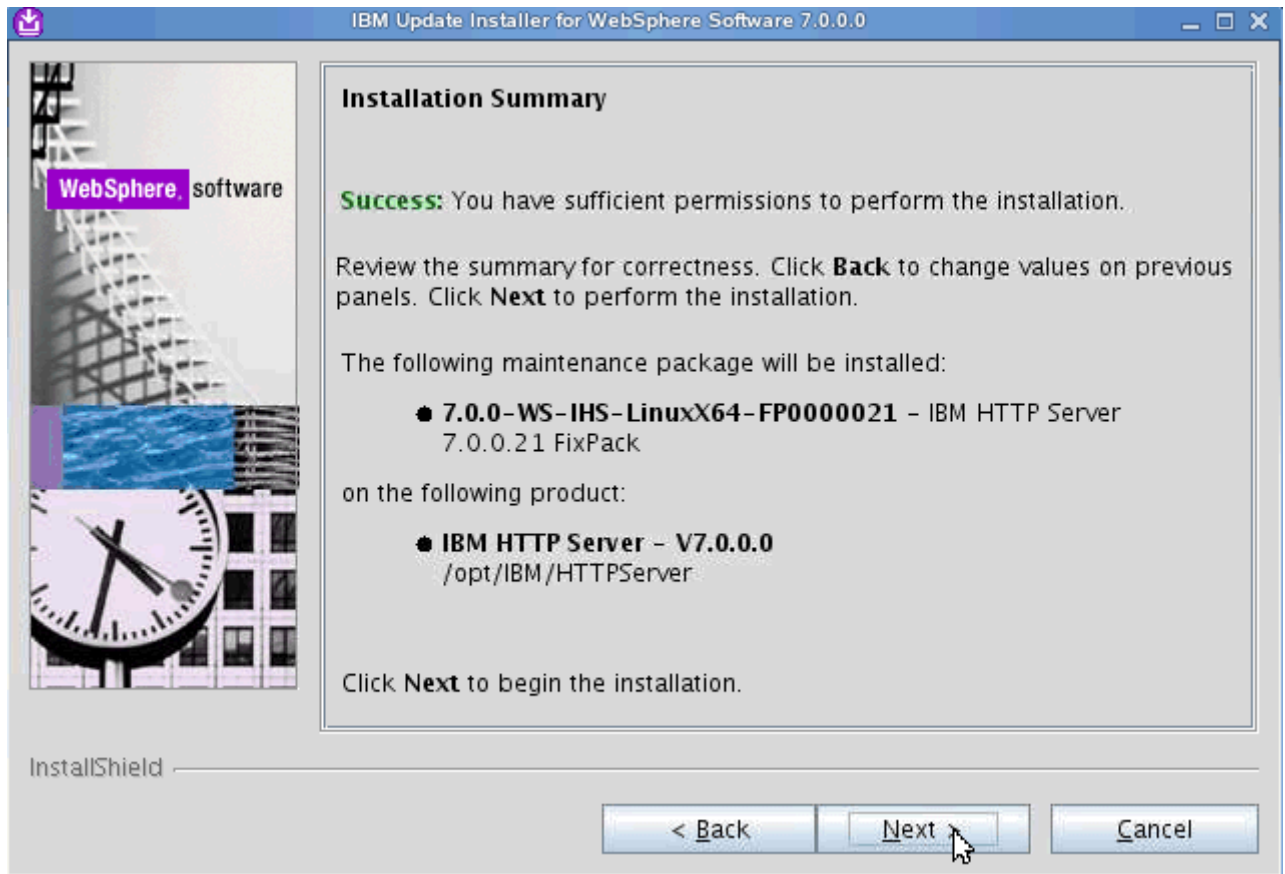


Figure 36. IBM Update Installer for WebSphere Software wizard: Installation Summary screen (2 of 2)

The installation components initialize.

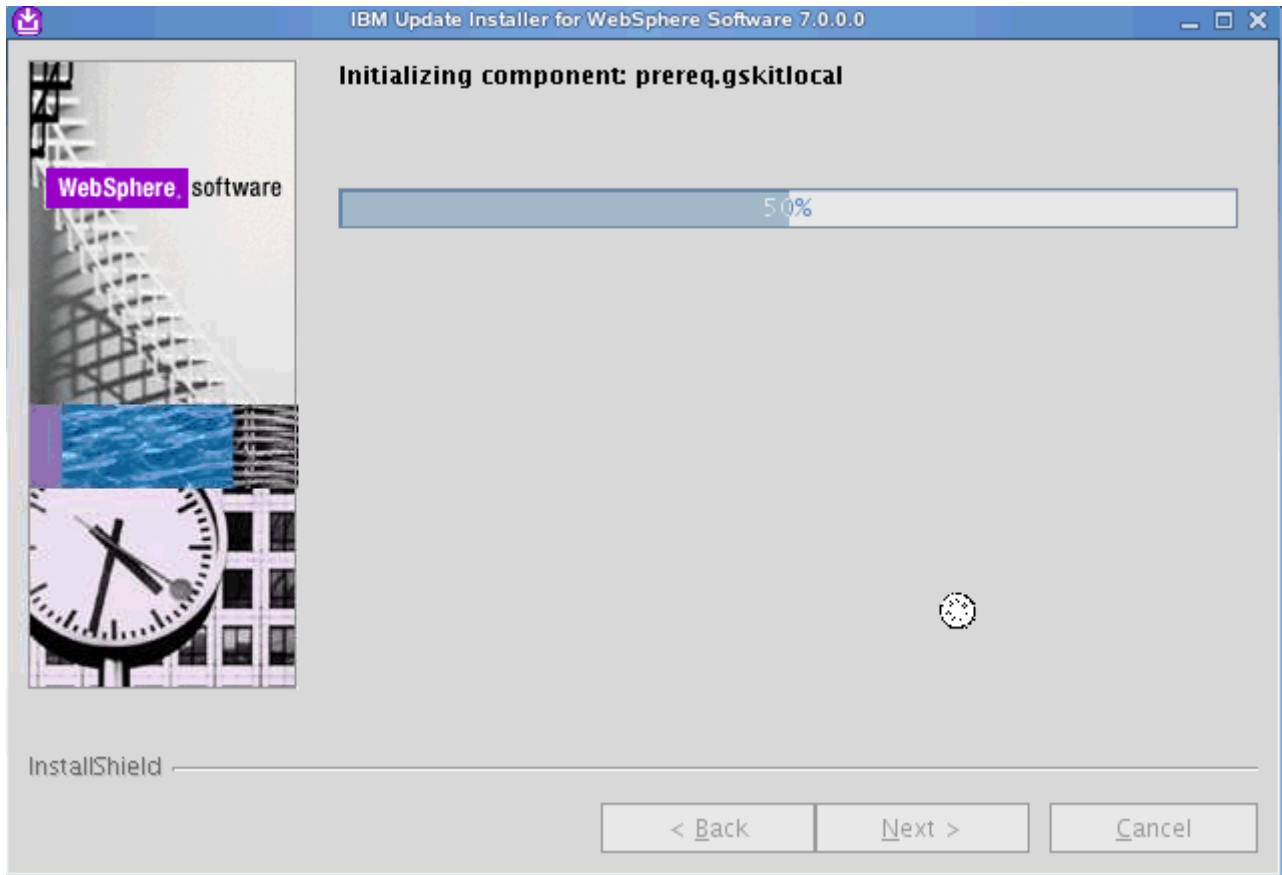


Figure 37. IBM Update Installer for WebSphere Software wizard: Installation in progress screen

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

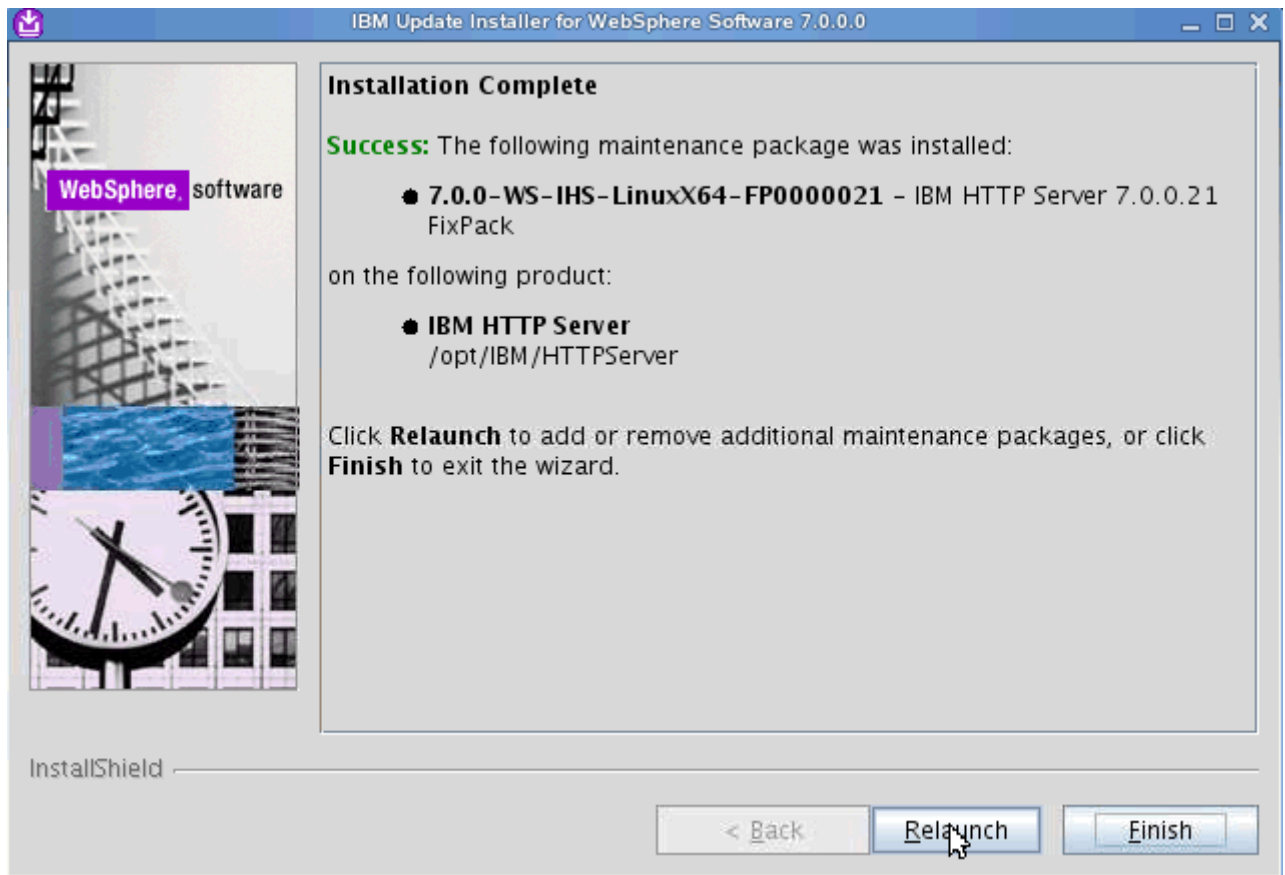


Figure 38. IBM Update Installer for WebSphere Software wizard: Installation Complete screen

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

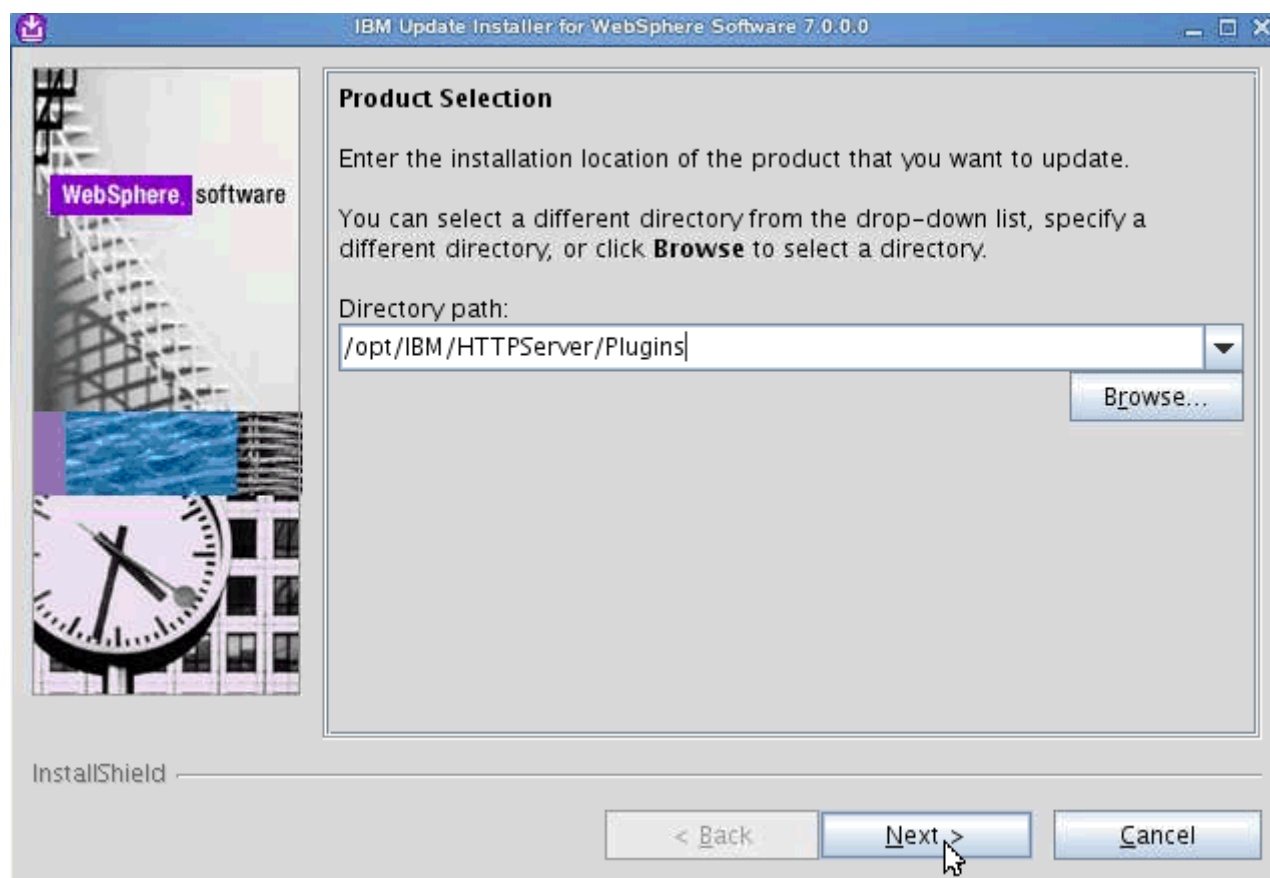


Figure 39. IBM Update Installer for WebSphere Software wizard: Product Selection screen

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

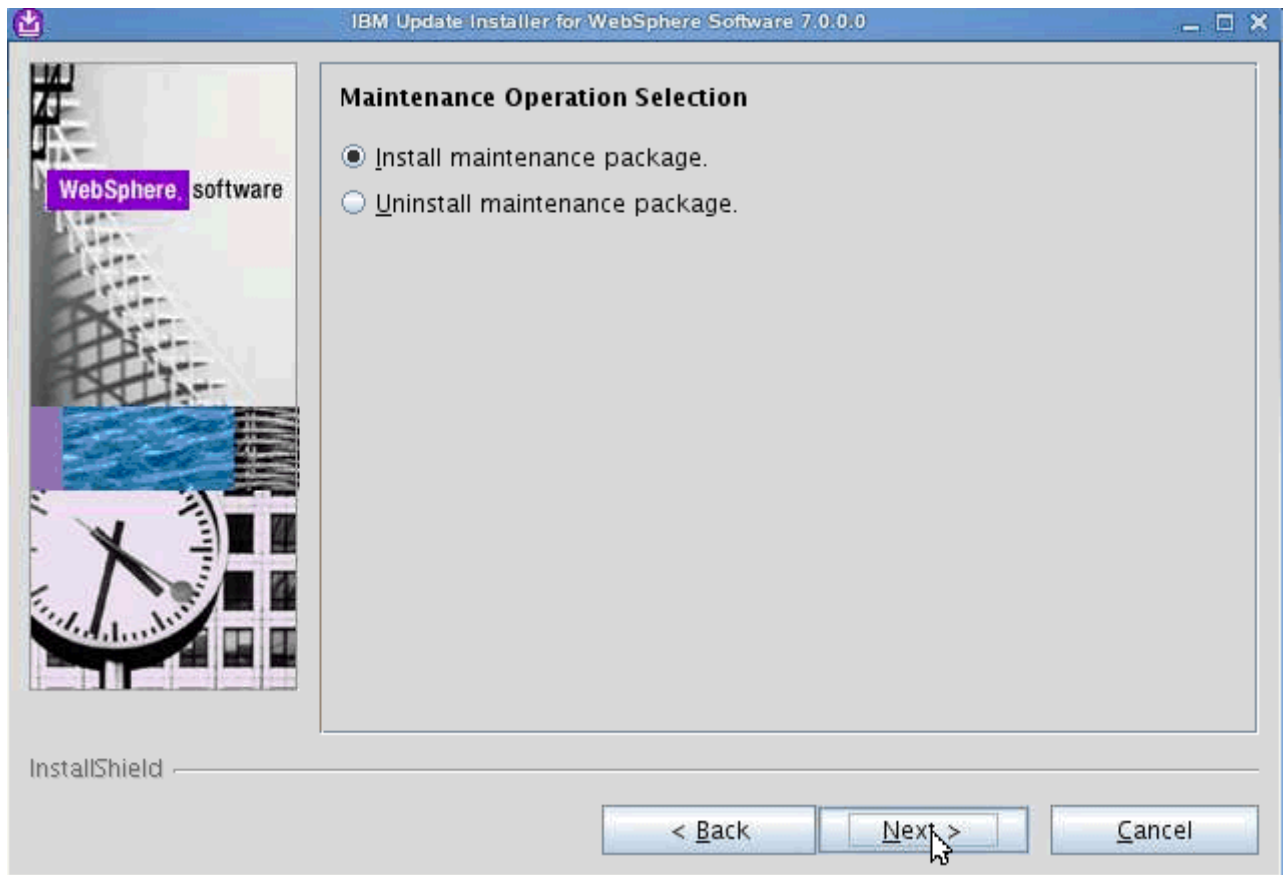


Figure 40. IBM Update Installer for WebSphere Software wizard: Maintenance Operation Selection screen

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

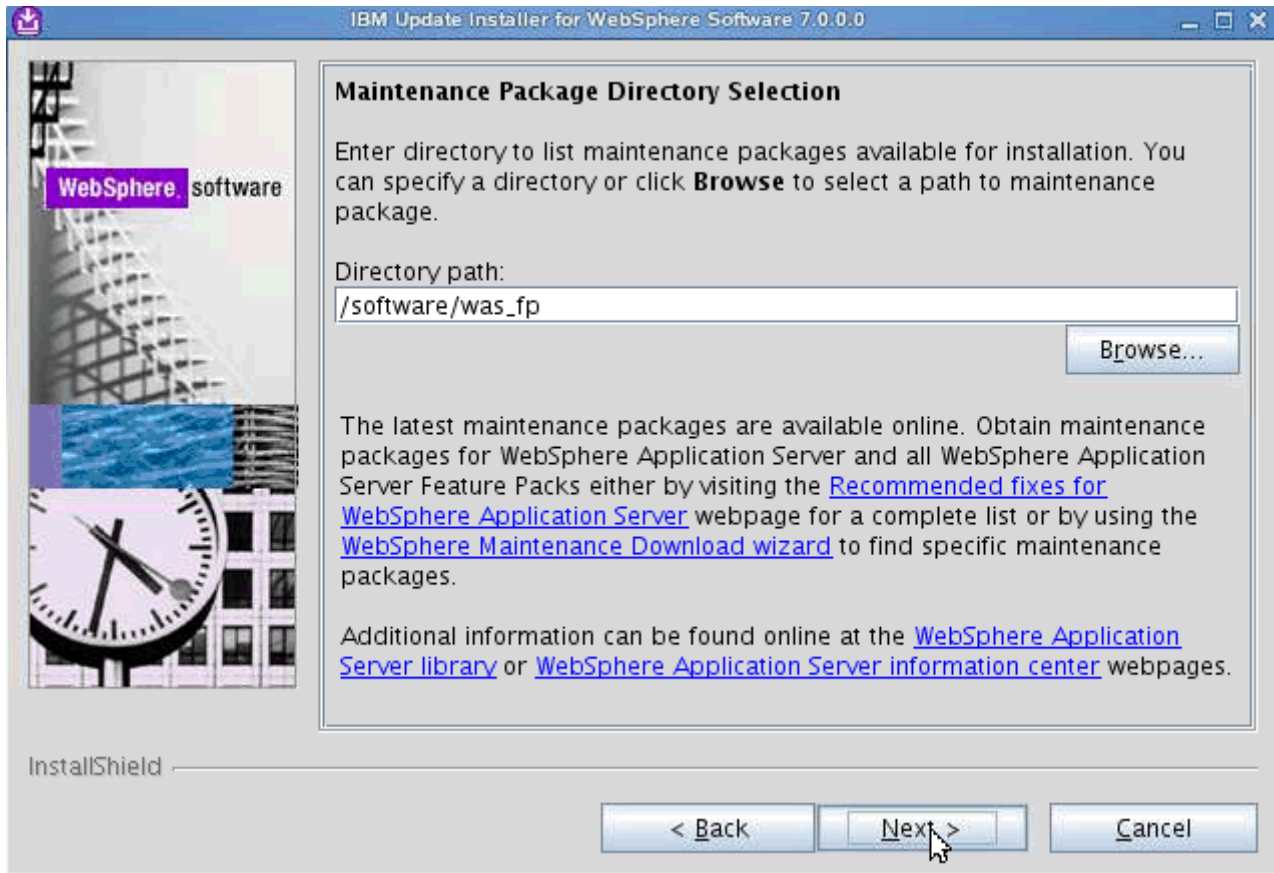


Figure 41. IBM Update Installer for WebSphere Software wizard: Maintenance Package Directory screen

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

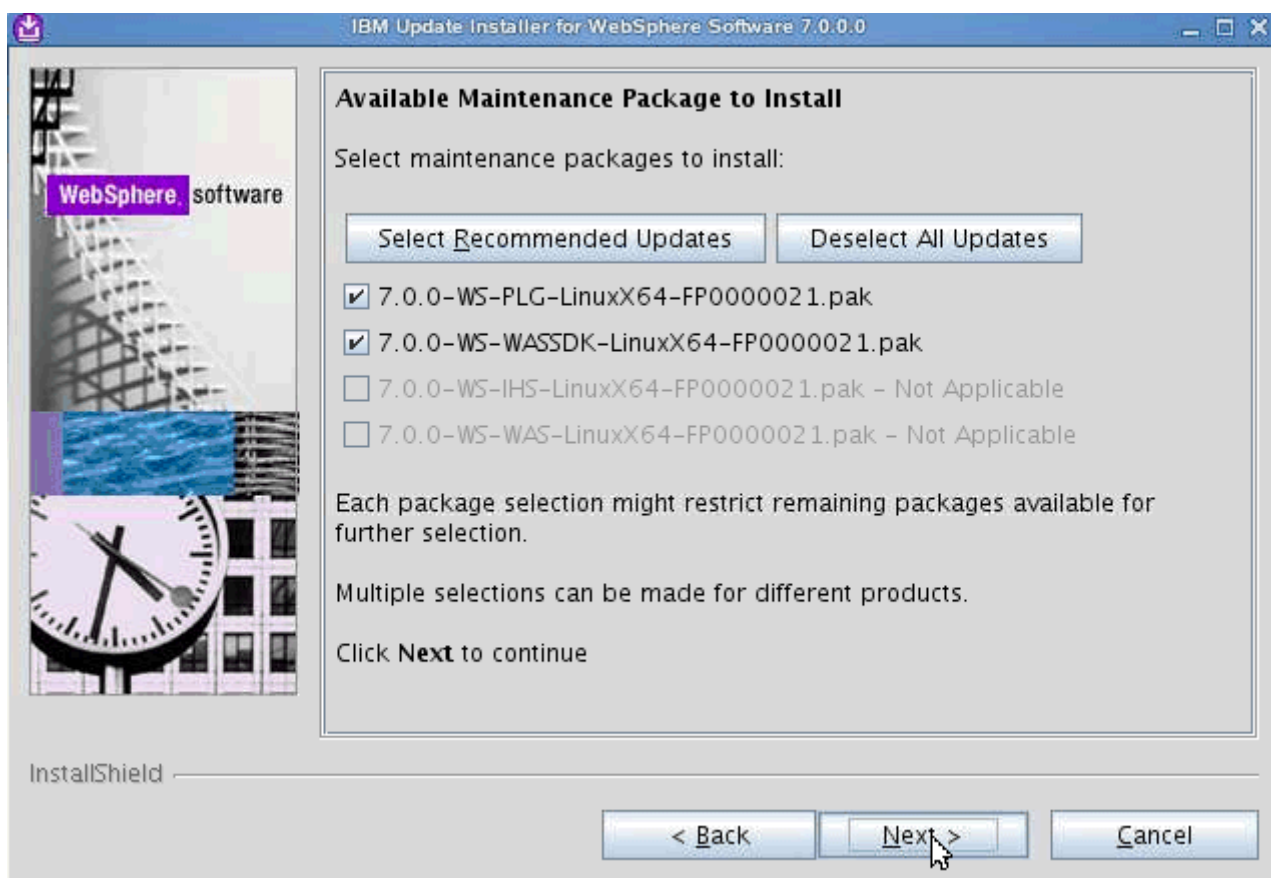


Figure 42. IBM Update Installer for WebSphere Software wizard: Available Maintenance Package to Install screen

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

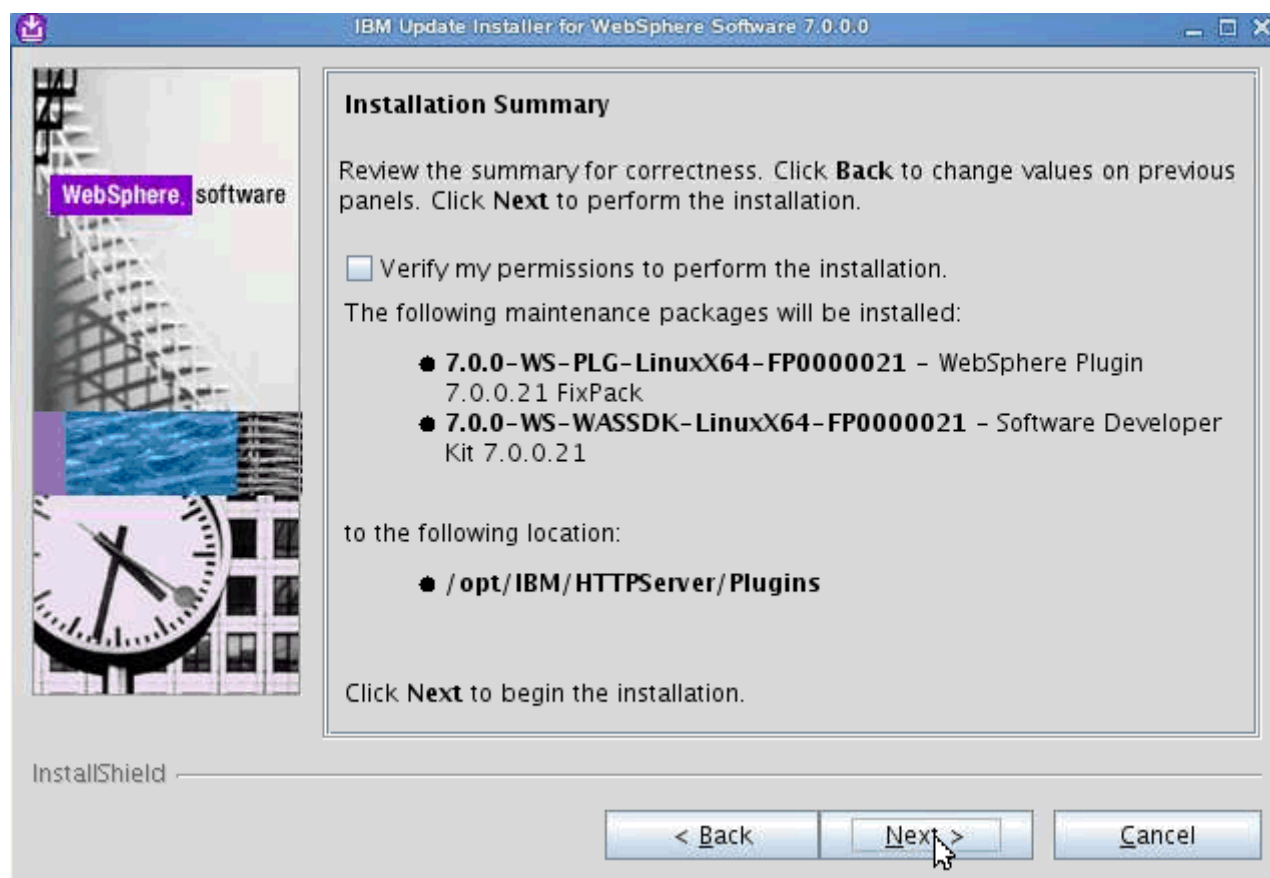


Figure 43. IBM Update Installer for WebSphere Software wizard: Installation Summary screen

The installation begins.

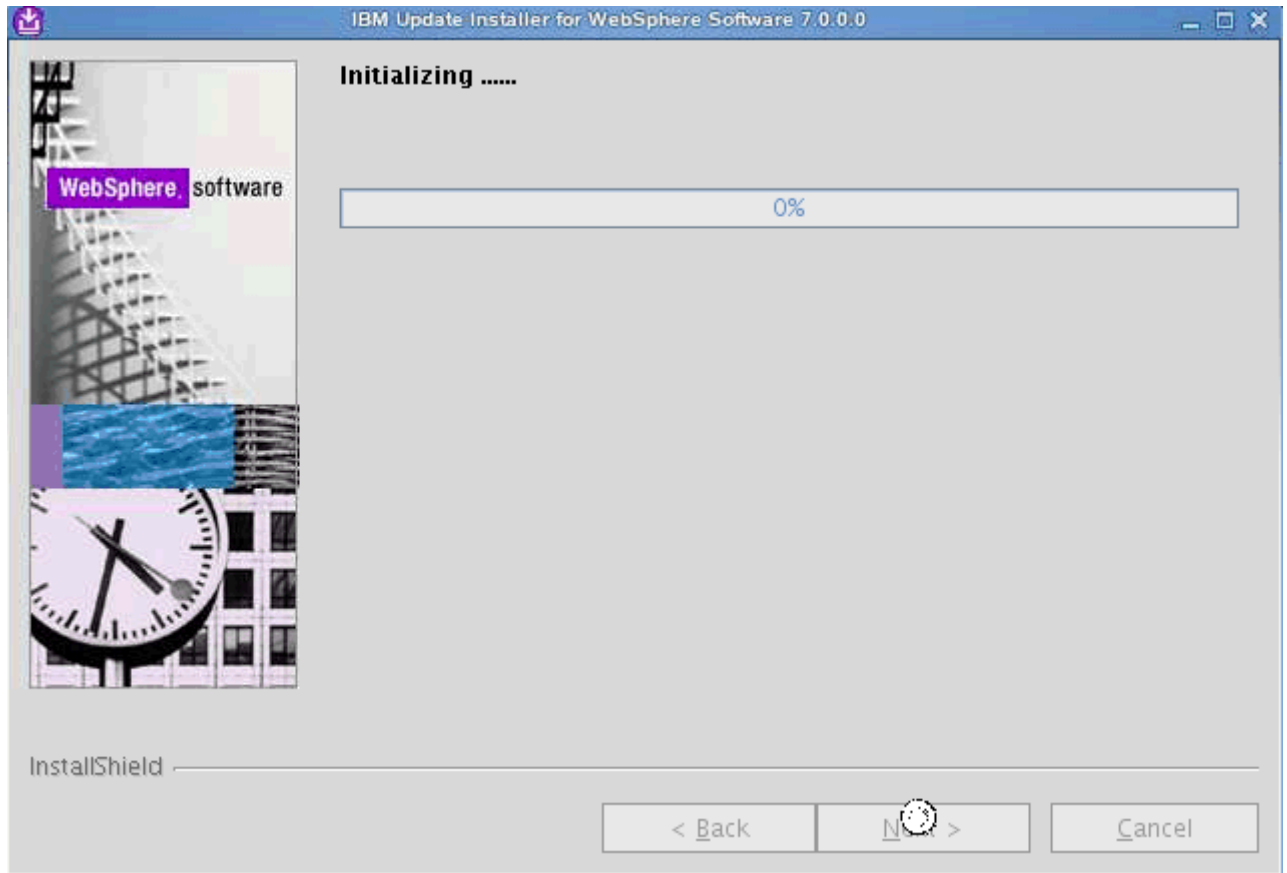


Figure 44. IBM Update Installer for WebSphere Software wizard: Installation in progress screen

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

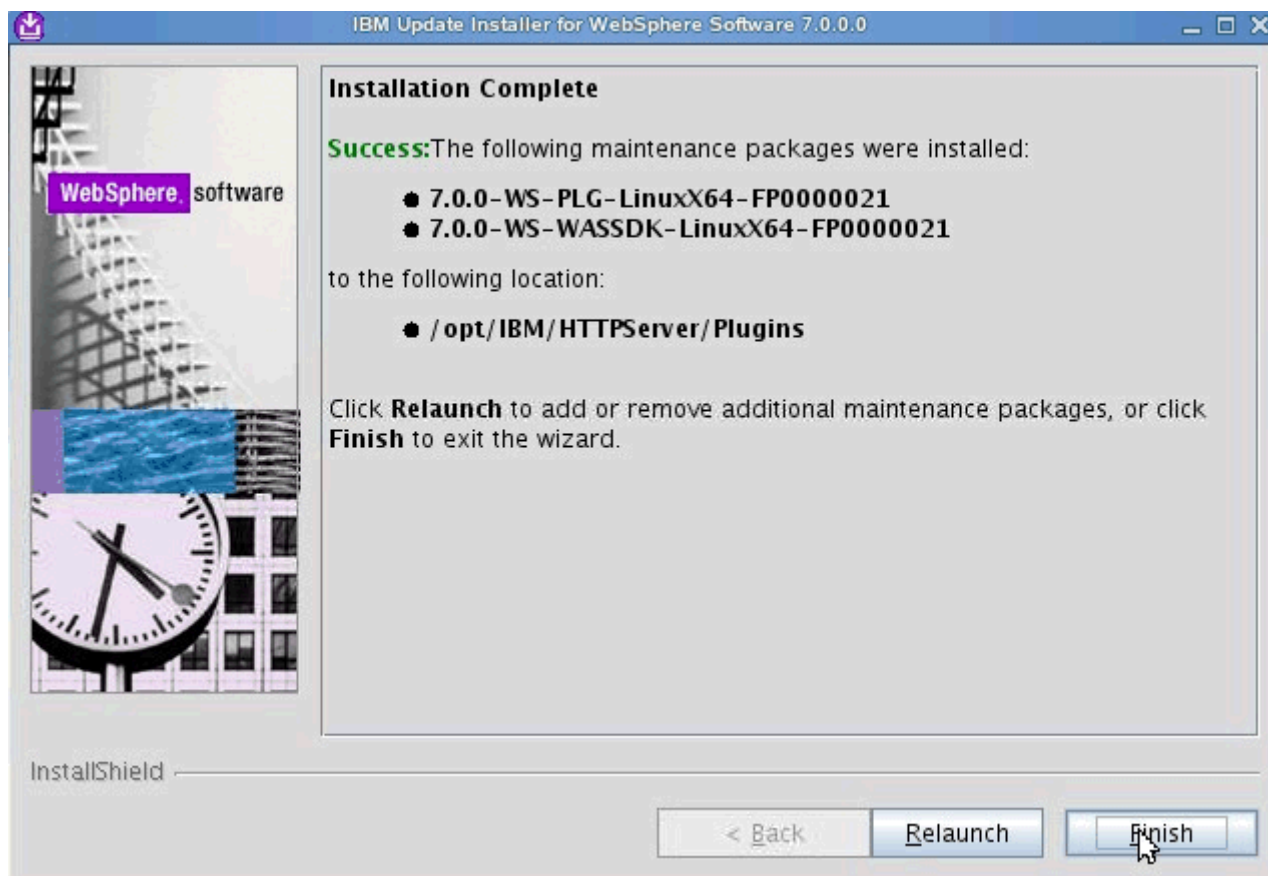


Figure 45. IBM Update Installer for WebSphere Software wizard: Installation Complete screen

Configure WebSphere Application Server security

Configure the federated repository

__ 1. Go to Security > Global security.

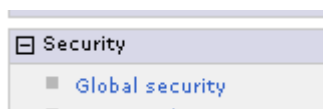


Figure 46. Global security

__ 2. Select **Enable application security**.

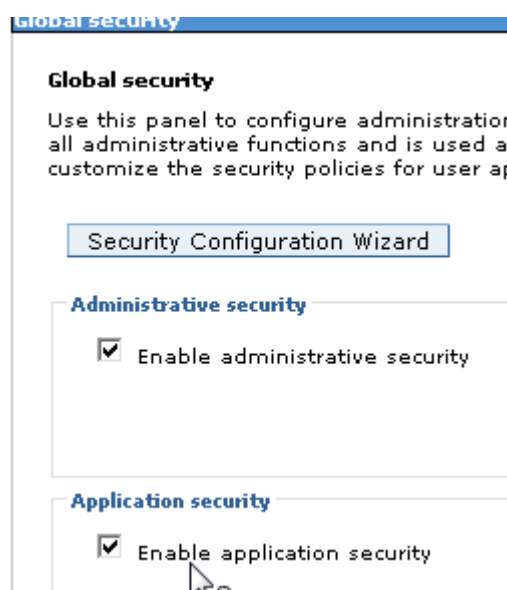


Figure 47. Application security enablement

__ 3. Click **Configure...**



Figure 48. User account repository

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

Ignore case for authorization

Repositories in the realm:

<input type="button" value="Add Base entry to Realm..."/> <input type="button" value="Use built-in repository"/> <input type="button" value="Remove"/>			
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 49. 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

<input type="button" value="Add"/> <input type="button" value="Delete"/>	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Select	Repository Identifier
You can administer the following resources:	
	InternalFileRepository
Total 1	

Figure 50. 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**.

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

Specifies the configuration for secure access to a Lightweight Directory Access Protocol (LDAP) repository with optional failover

General Properties

Repository identifier
eDir885

LDAP server

* Directory type
Novell Directory Services

* Primary host name Port
<Primary host name> 389

Failover server used when primary is not available:

Delete

Select	Failover Host Name	Port
	None	

Add

Support referrals to other LDAP servers
ignore

Security

Bind distinguished name
cn=admin,o=ibm

Bind password

Login properties
uid

LDAP attribute for Kerberos principal name

Certificate mapping
EXACT_DN

Certificate filter

Require SSL communications

Centrally managed

- [Manage endpoint security configurations](#)

Use specific SSL alias

 ■ [SSL configurations](#)

Figure 51. General properties window

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

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 identities in the file-based 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
defaultWIMFileBasedRealm

* Primary administrative user name
wasadmin

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"/>	l=eDir88,ou=Lotus,ou=Software Group,o=ibm	eDir885	LDAP:NDS
<input type="checkbox"/>	o=defaultWIMFileBasedRealm	InternalFileRepository	File
Total 2			

Figure 52. Adding base entry to the realm (1 of 2)

Global security > Federated repositories > l=eDir88,ou=Lotus,ou=Software Group,o=ibm

Specifies a set of identity entries in a repository that are referenced by a base entry into the directory information tree. If multiple repositories are included in the same realm, it might be necessary to define an additional distinguished name that uniquely identifies this set of entries within the realm.

General Properties

* Repository
eDir885

* Distinguished name of a base entry that uniquely identifies this set of entries in the realm
l=eDir88,ou=Lotus,ou=Softwa

Distinguished name of a base entry in this repository
l=eDir88,ou=Lotus,ou=Softwa

Figure 53. Adding base entry to the realm (2 of 2)

8. Restart all Deployment Manager and Nodes

DBWizard

Assume that DB2 and Tivoli Directory Integrator are already installed.

Preparing lcuser and Wizard

__ 1. Log in to the DB2 server as the root user and type the following command to create a user.

```
# whoami
root
# useradd -u 1004 -g db2iadm1 -m -d /db2home/lcuser lcuser -p password
```

Figure 54. Command to create a user in DB2 server

__ 2. Extract the Wizard package and change Wizards directory permission to DB2 administration.

```
# cd /usr/ICBuild/LCI4.0_20120614-2200
# whoami
root
# chmod -R 777 Wizards
```

Figure 55. Extracting wizard package and changing wizard directory permission

__ 3. Check DISPLAY value.

```
# xhost +
access control disabled, clients can connect from any host
# echo $DISPLAY
lcblade04:1.0
```

Figure 56. Checking display value

__ 4. Switch to DB2 administration user, db2inst1, and export DISPLAY.

```
bash-3.2$ whoami
db2inst1
bash-3.2$ export DISPLAY=lcblade04:1.0
```

Figure 57. Switching to DB2 administration user and exporting display

Create LC database



Information

For this step, the DB2 user is an administrative user.

1. Run `./dbWizard.sh` in the extracted Wizard folder.

```
bash-3.2$ pwd
/usr/ICBuild/LCI4.0_20120614-2200/Wizards
bash-3.2$ whoami
db2inst1
bash-3.2$ ./dbWizard.sh
```

Figure 58. Running `./dbWizard.sh`

2. The database wizard for IBM Connections 4.0 opens. Click **Next**.



Figure 59. Database wizard for IBM Connections 4.0: Welcome screen

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

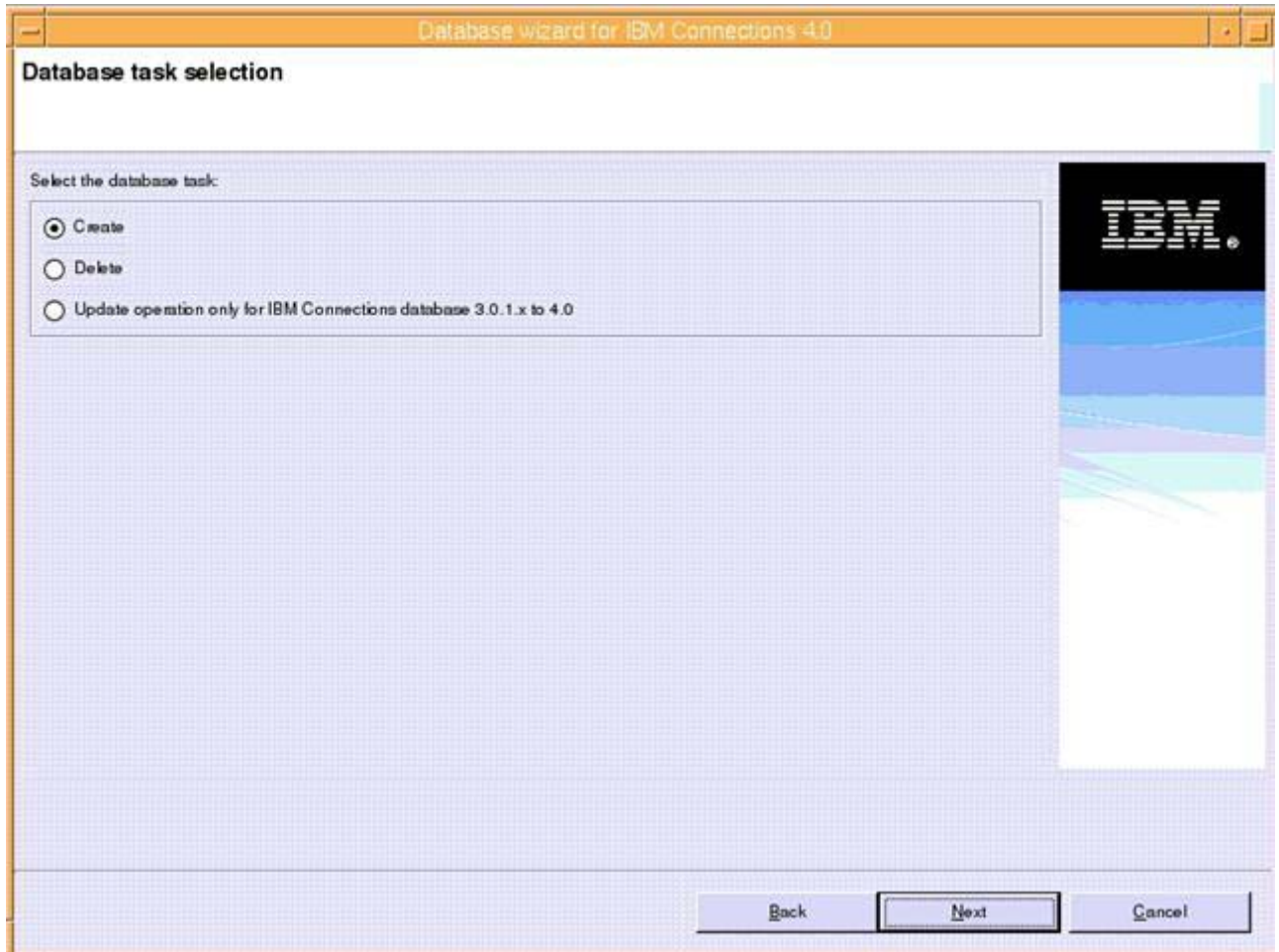


Figure 60. Database wizard for Lotus Connections 4.0: Database task selection screen

4. In the database selection screen, select **DB2 Universal Database (TM)** and click **Next**.

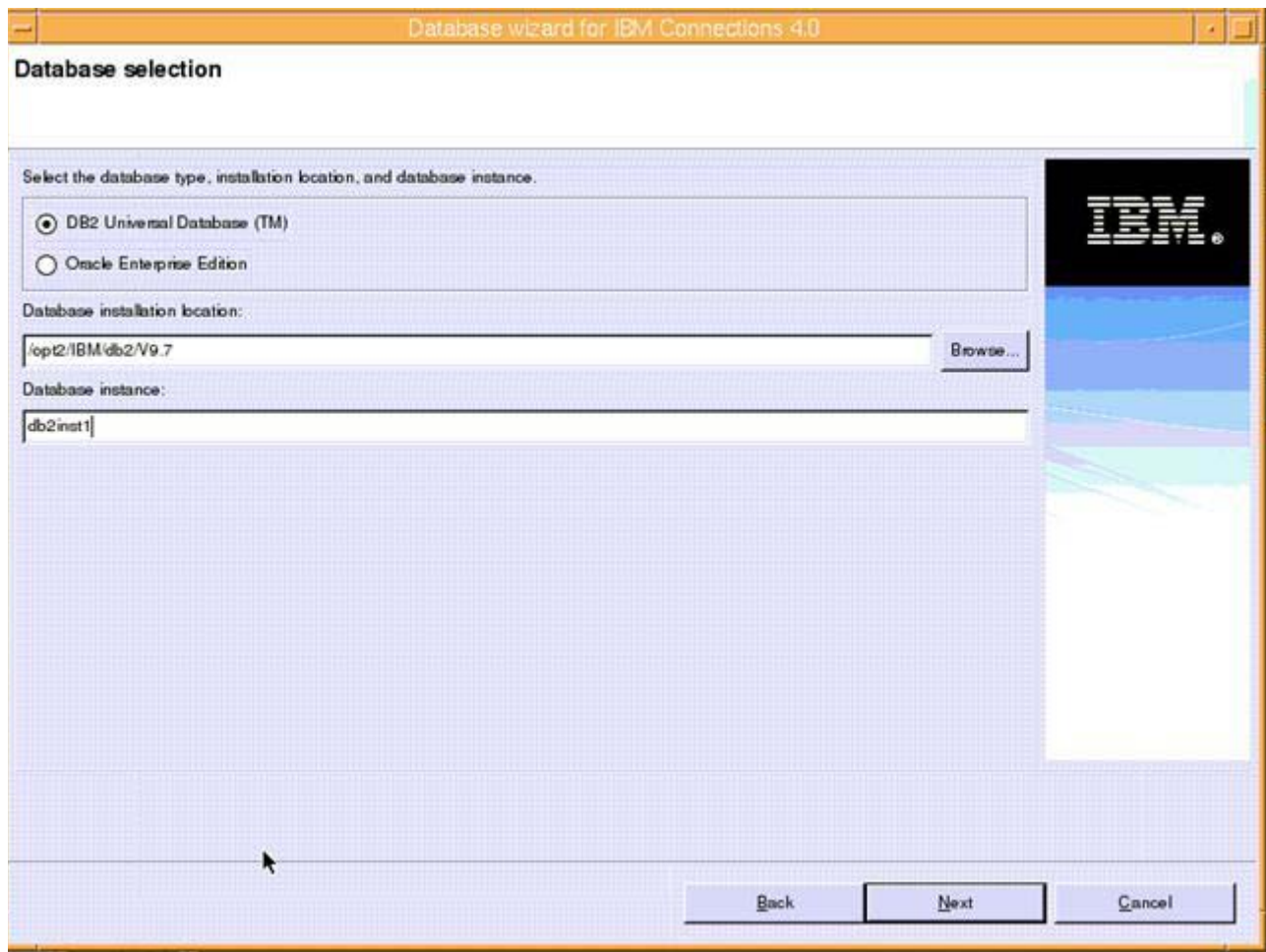


Figure 61. Database wizard for Lotus Connections 4.0: Database selection screen

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

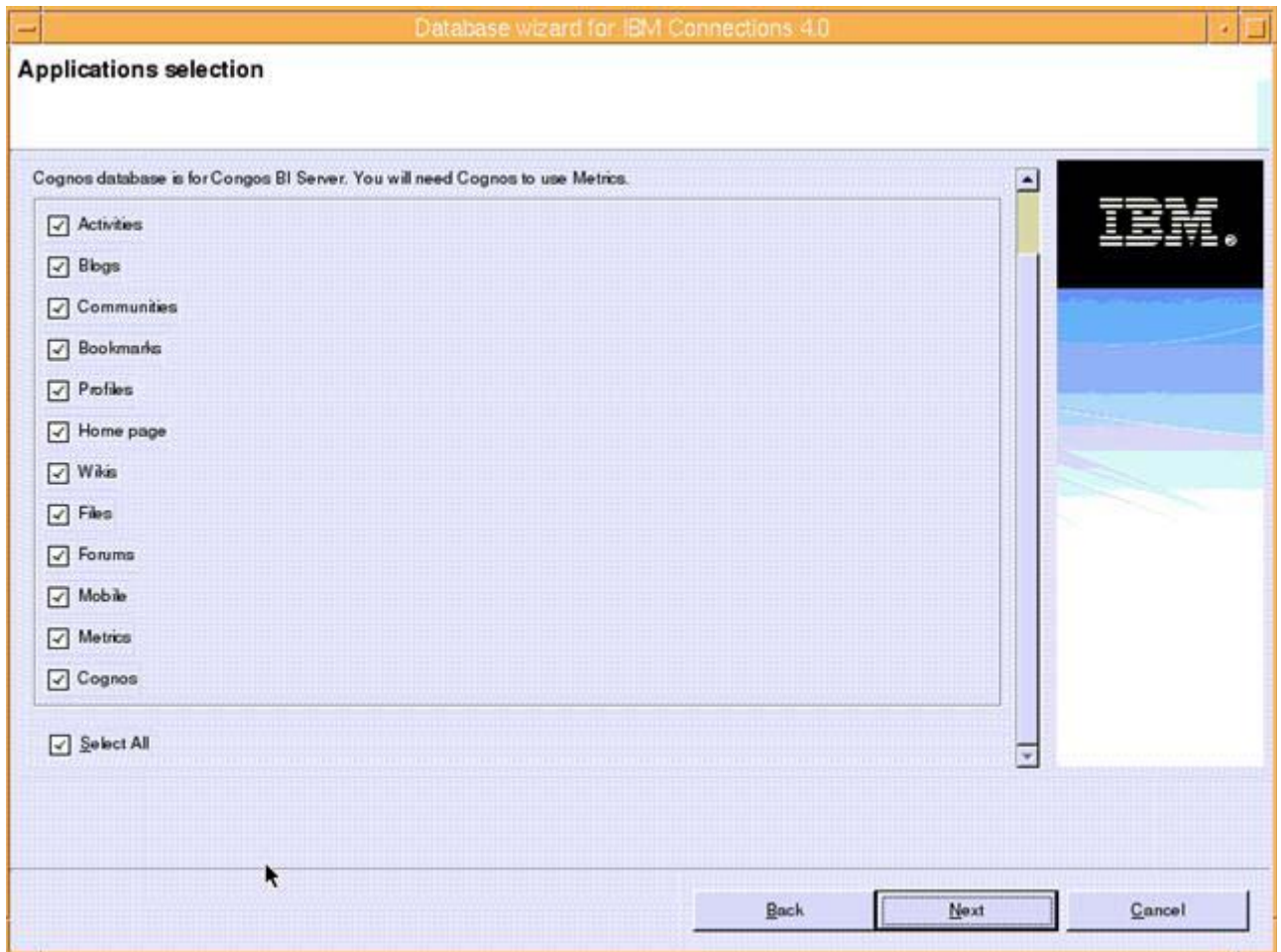


Figure 62. Database wizard for Lotus Connections 4.0: Applications selection screen

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

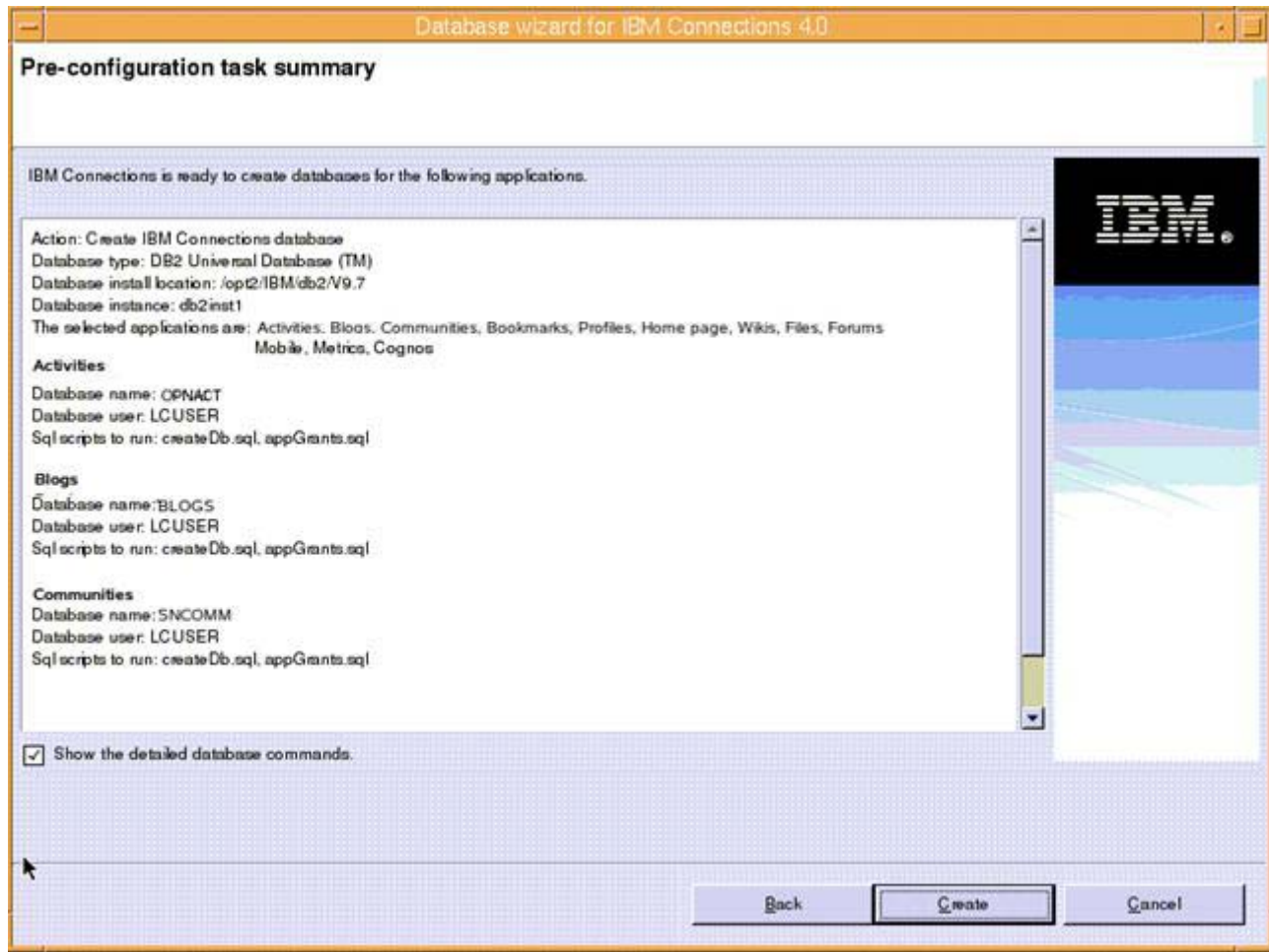


Figure 63. Database wizard for Lotus Connections 4.0: Pre-configuration task summary screen

Creation of the database starts.

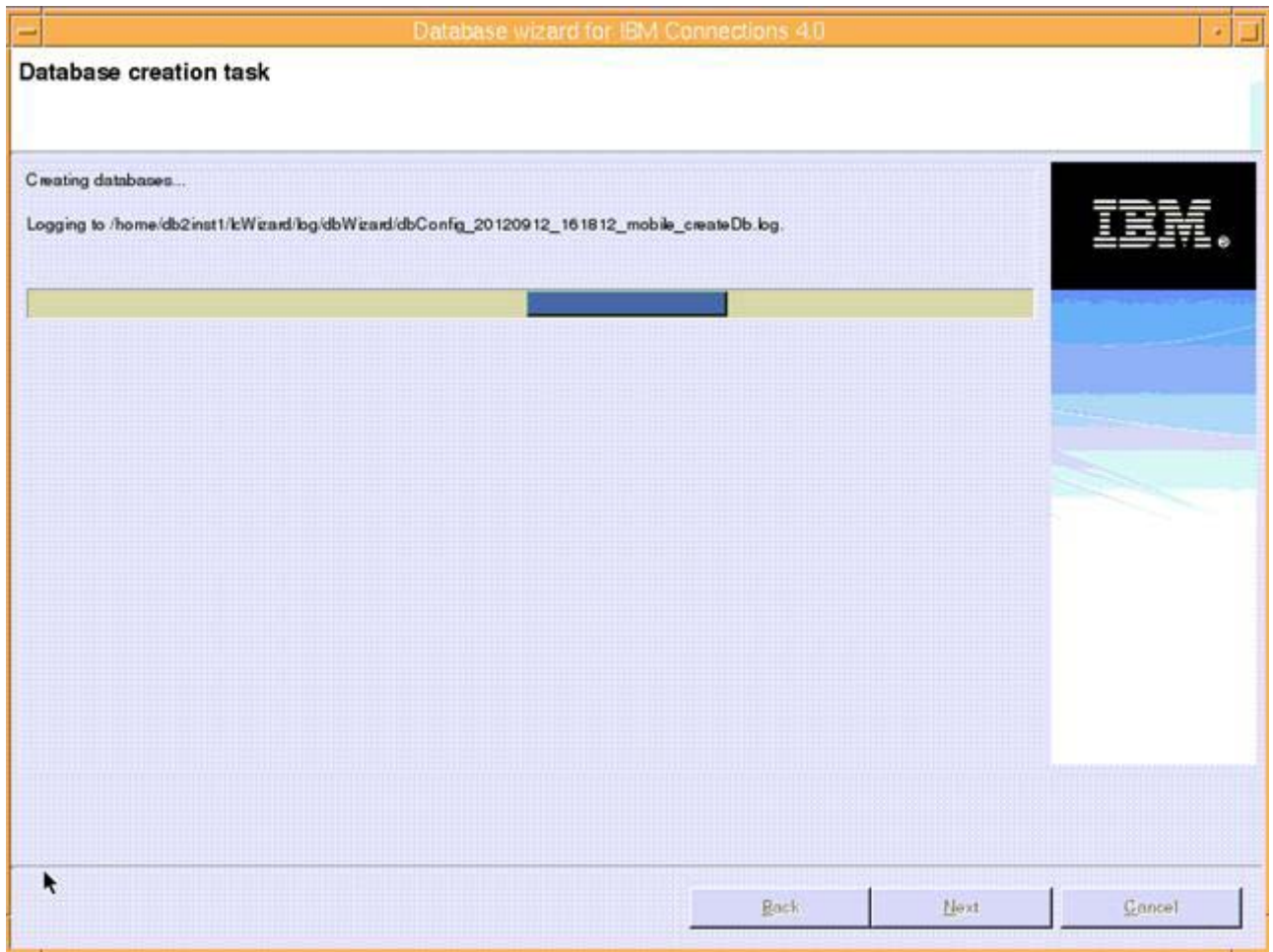


Figure 64. Database wizard for Lotus Connections 4.0: Database creation in progress

___ 7. After completed, review the result. Then, click **Finish**.

Populating the Profiles database by using Population Wizard

1. In the welcome screen of the population wizard, click **Next**.

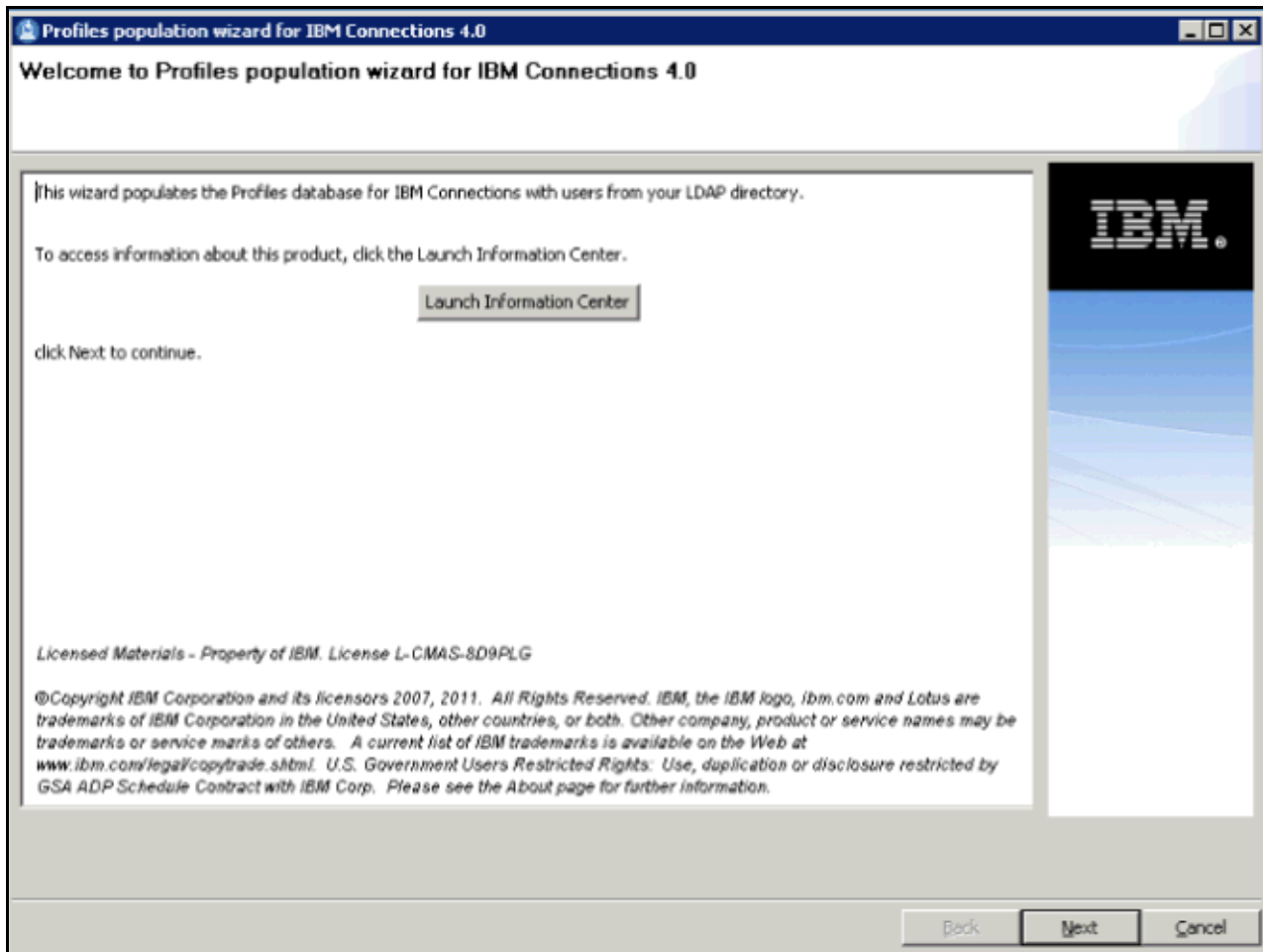


Figure 65. Profiles population wizard for IBM Connections 4.0: Welcome screen

2. Select the location to install the Tivoli Integrator and click **Next**.

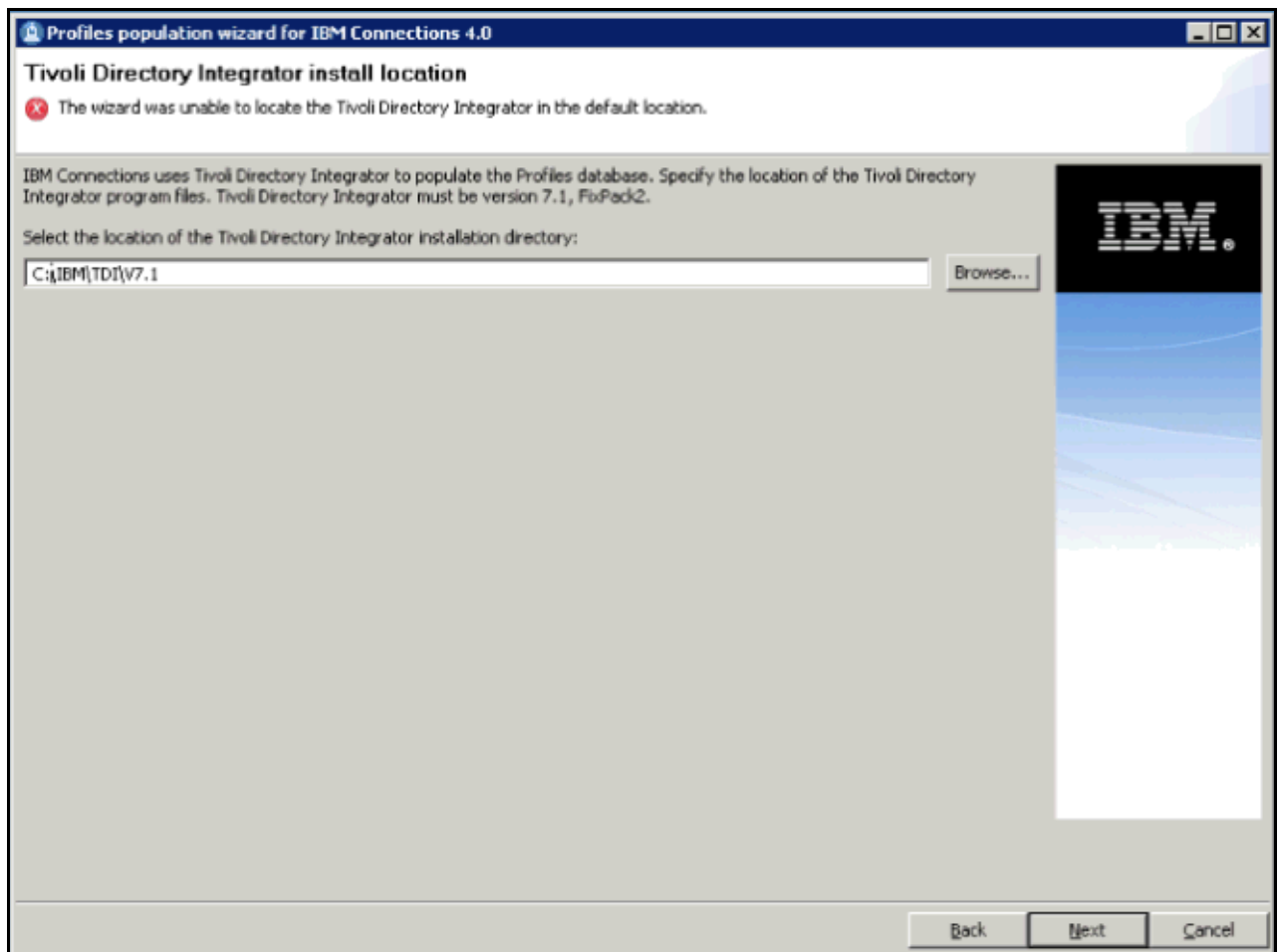


Figure 66. Profiles population wizard for IBM Connections 4.0: Tivoli Directory Integrator installation location screen

3. Select **DB2 Universal Database(TM)** as the database type and click **Next**.

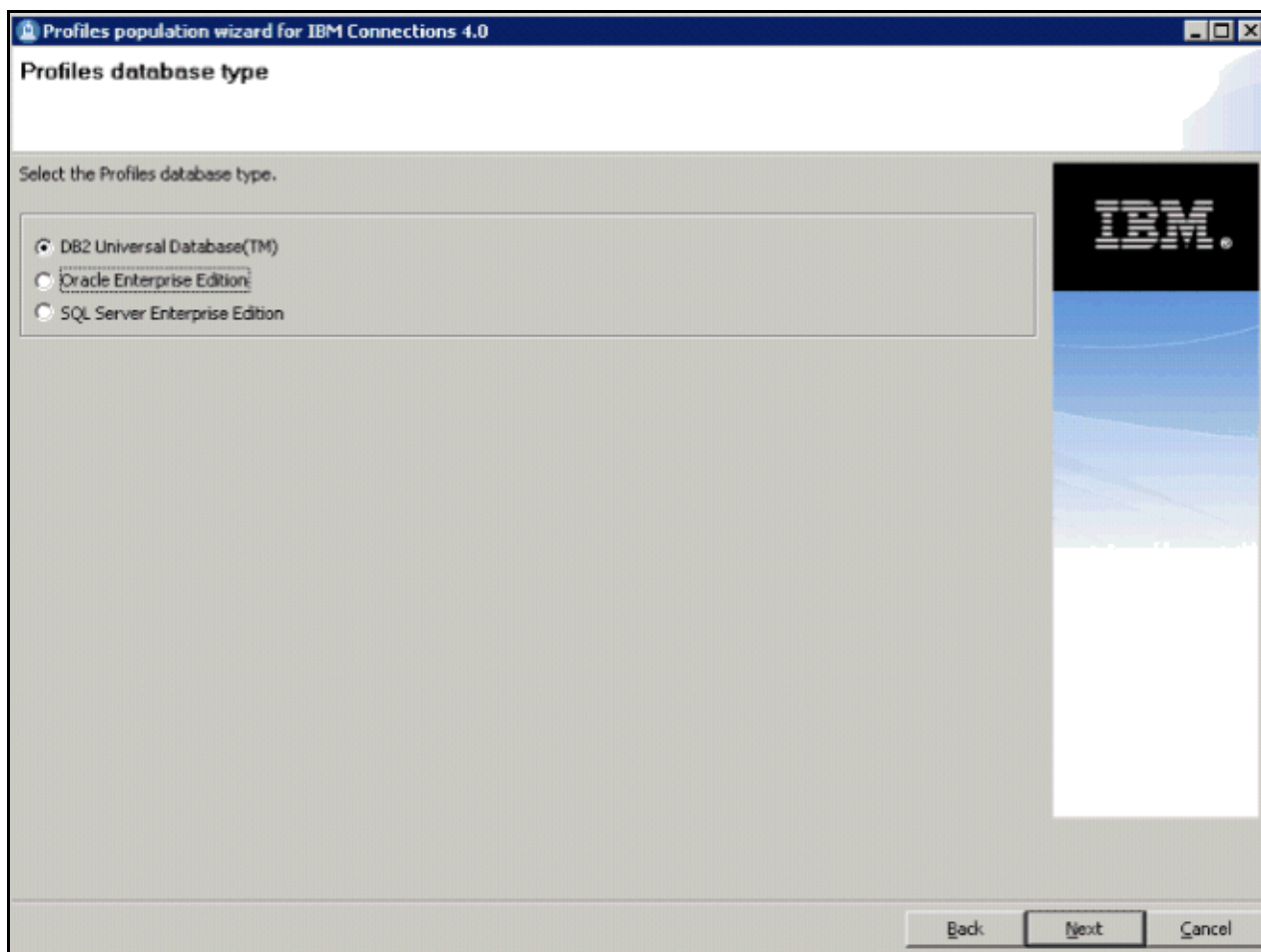
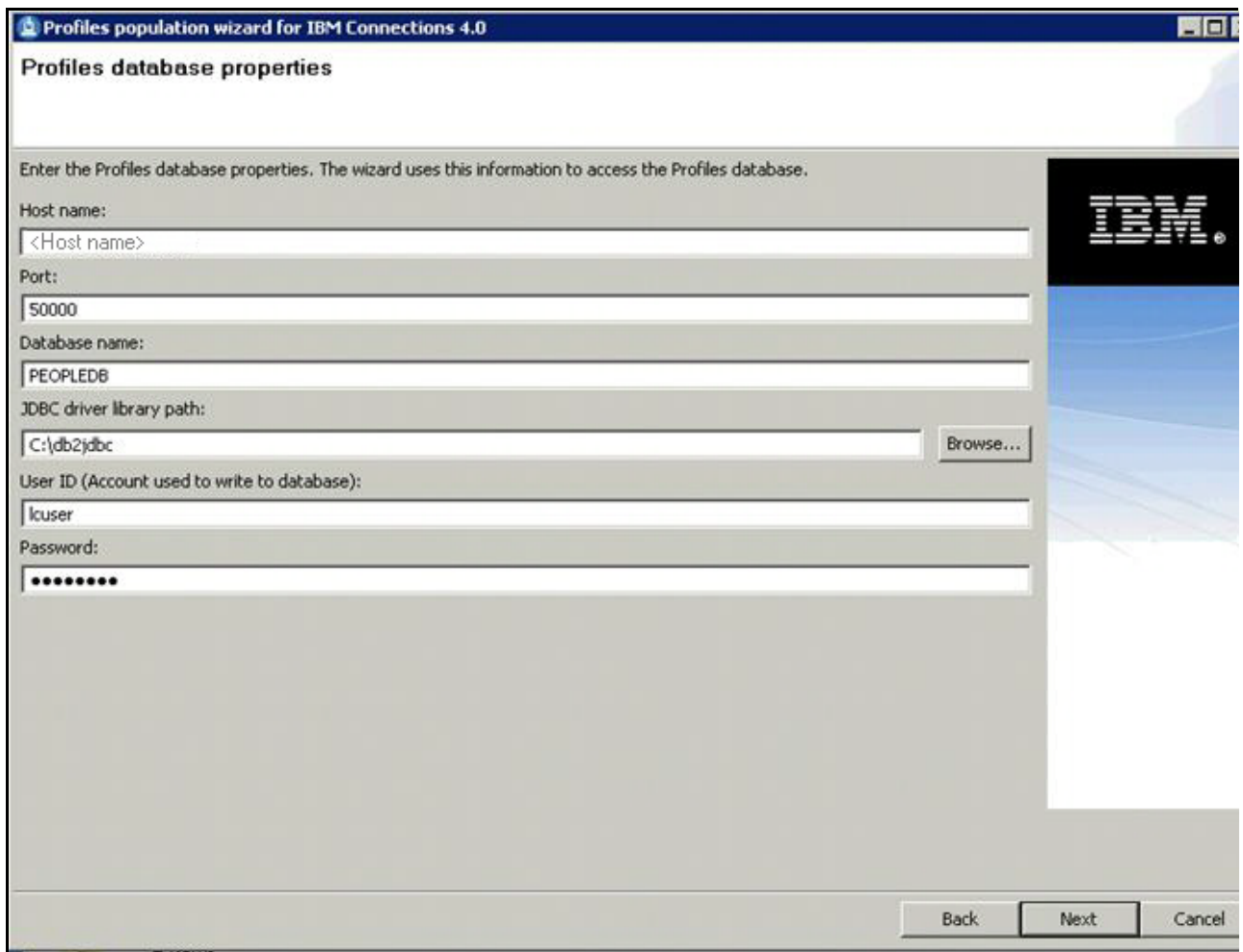


Figure 67. Profiles population wizard for IBM Connections 4.0: Profiles database type screen

4. Enter the database properties and click **Next**.



The screenshot shows a window titled "Profiles population wizard for IBM Connections 4.0" with the subtitle "Profiles database properties". Below the title bar, there is an instruction: "Enter the Profiles database properties. The wizard uses this information to access the Profiles database." The form contains the following fields and controls:

- Host name: A text box containing the placeholder text "<Host name>".
- Port: A text box containing the value "50000".
- Database name: A text box containing the value "PEOPLEDB".
- JDBC driver library path: A text box containing the value "C:\db2\dbc" and a "Browse..." button to its right.
- User ID (Account used to write to database): A text box containing the value "lcuser".
- Password: A text box filled with ten black dots.

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

Figure 68. Profiles population wizard for IBM Connections 4.0: Profiles database properties screen

___ 5. Specify the LDAP host name and server port and click **Next**.

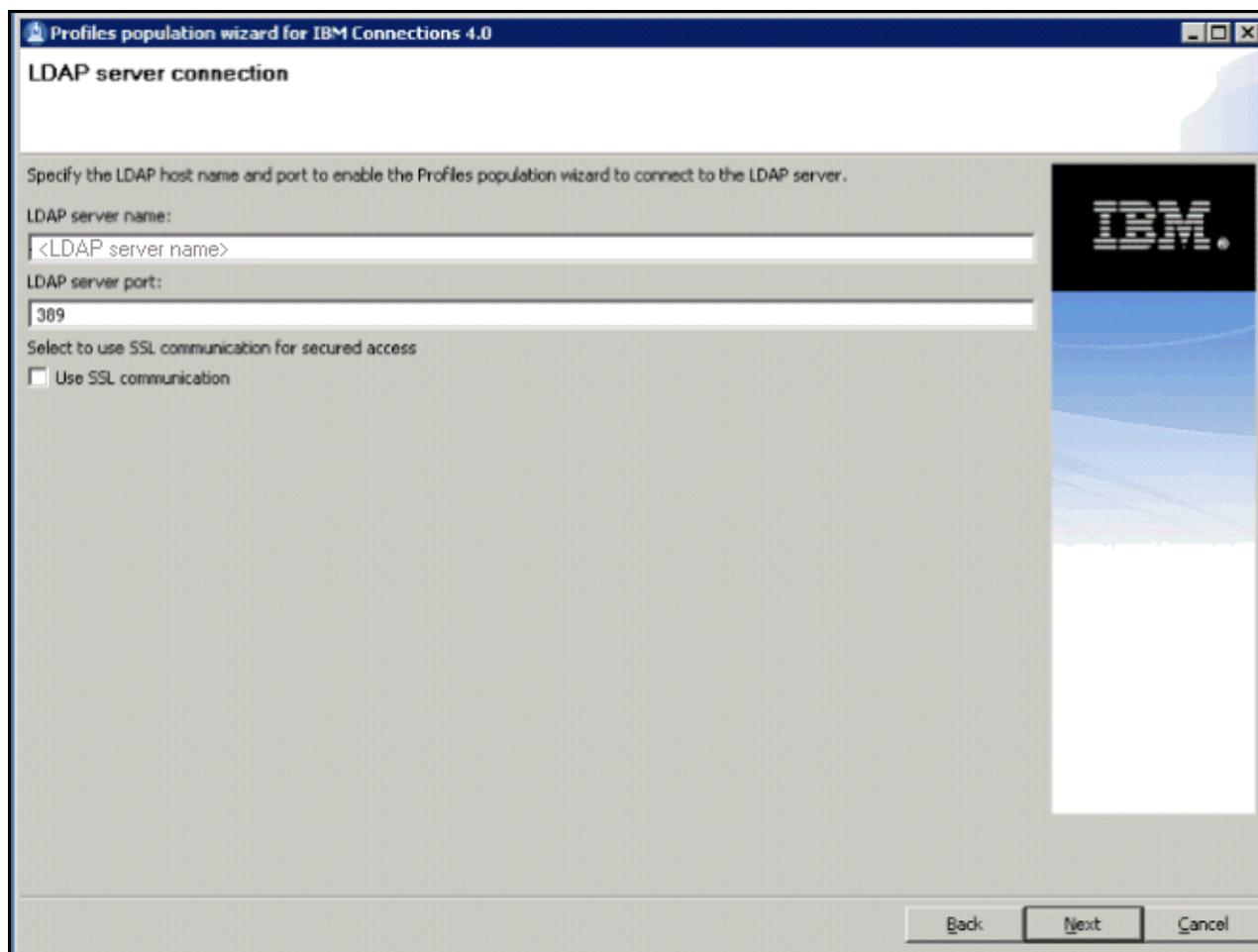
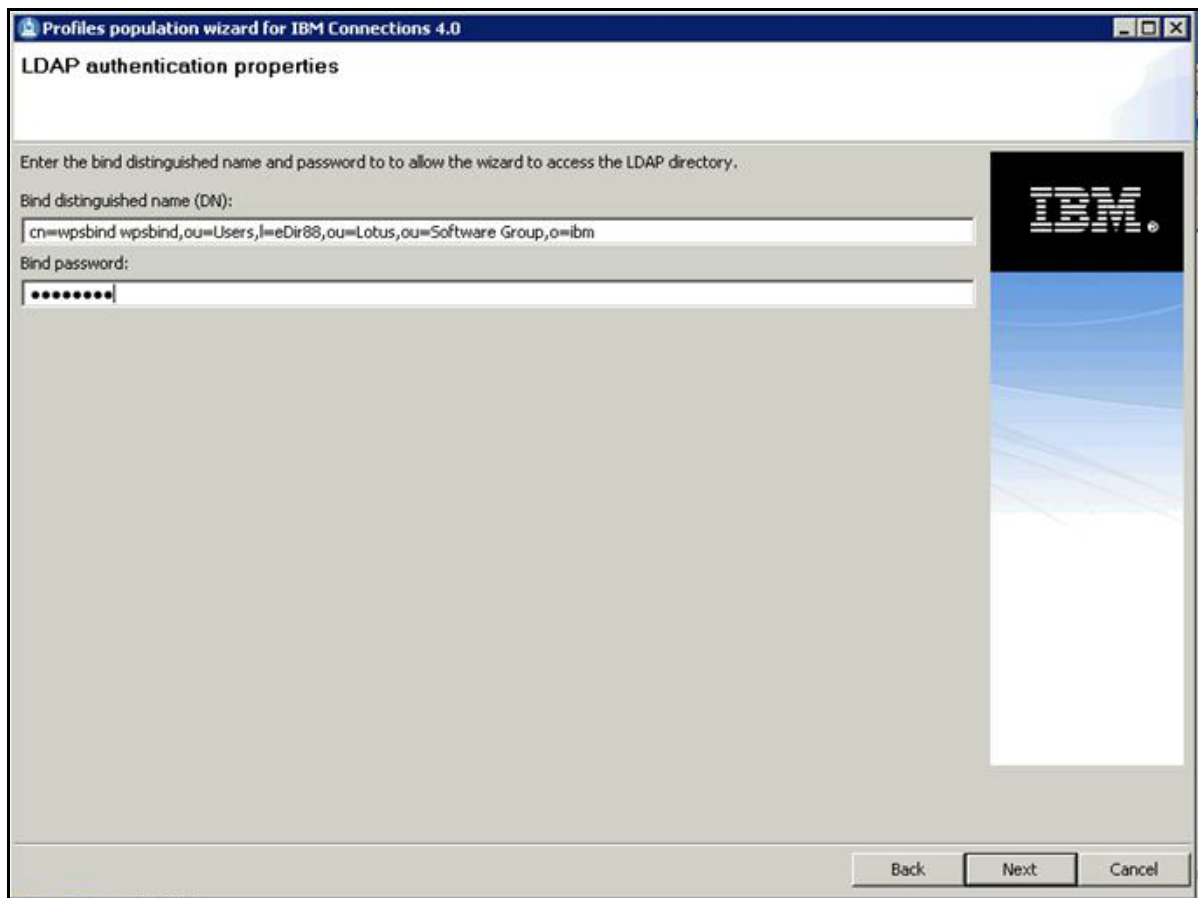


Figure 69. Profiles population wizard for IBM Connections 4.0: LDAP server connections screen

6. Enter the bind distinguished name and password and click **Next**.



Profiles population wizard for IBM Connections 4.0

LDAP authentication properties

Enter the bind distinguished name and password to allow the wizard to access the LDAP directory.

Bind distinguished name (DN):

Bind password:

Back Next Cancel

Figure 70. Profiles population wizard for IBM Connections 4.0: LDAP authentication properties screen

7. Enter the distinguished name and filter for LDAP user search and click **Next**.

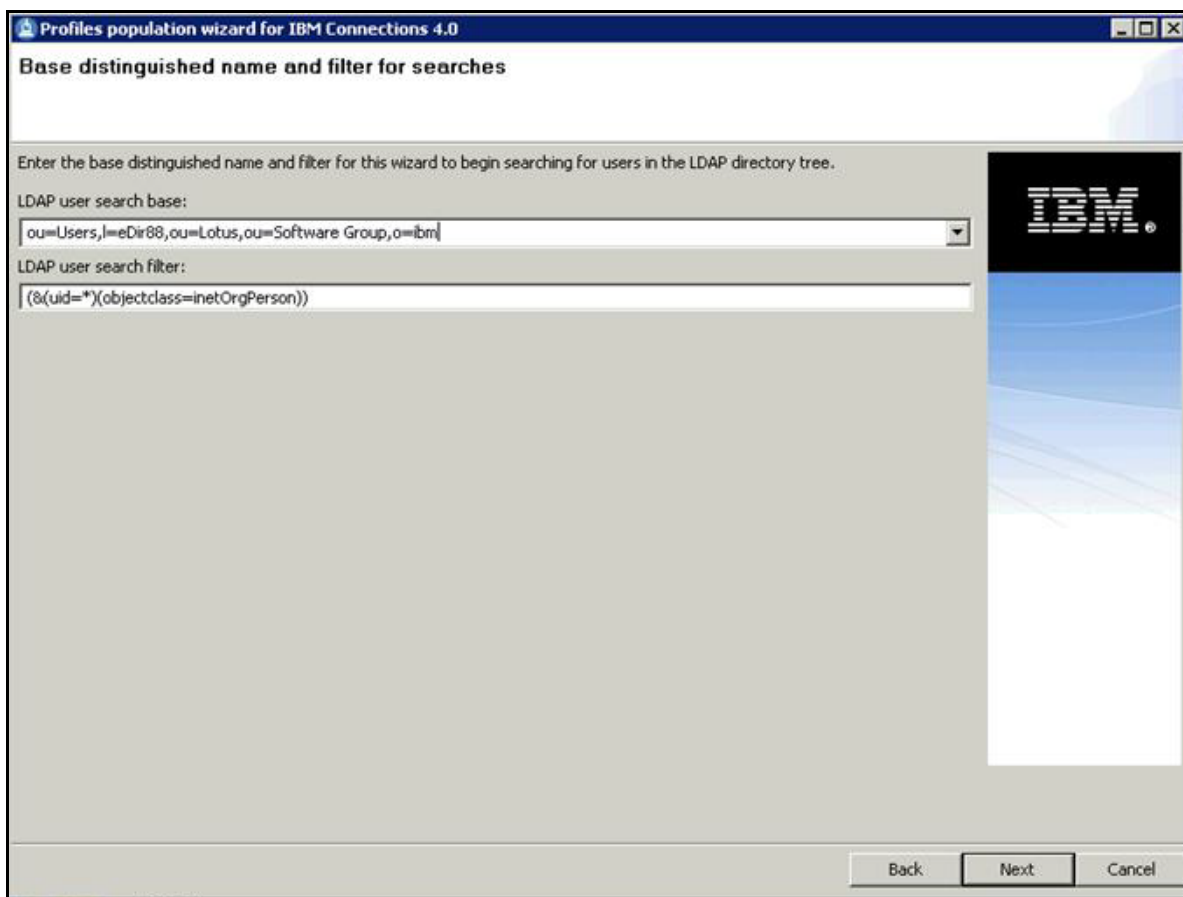


Figure 71. Profiles population wizard for IBM Connections 4.0: Base distinguished name and filter for searches screen

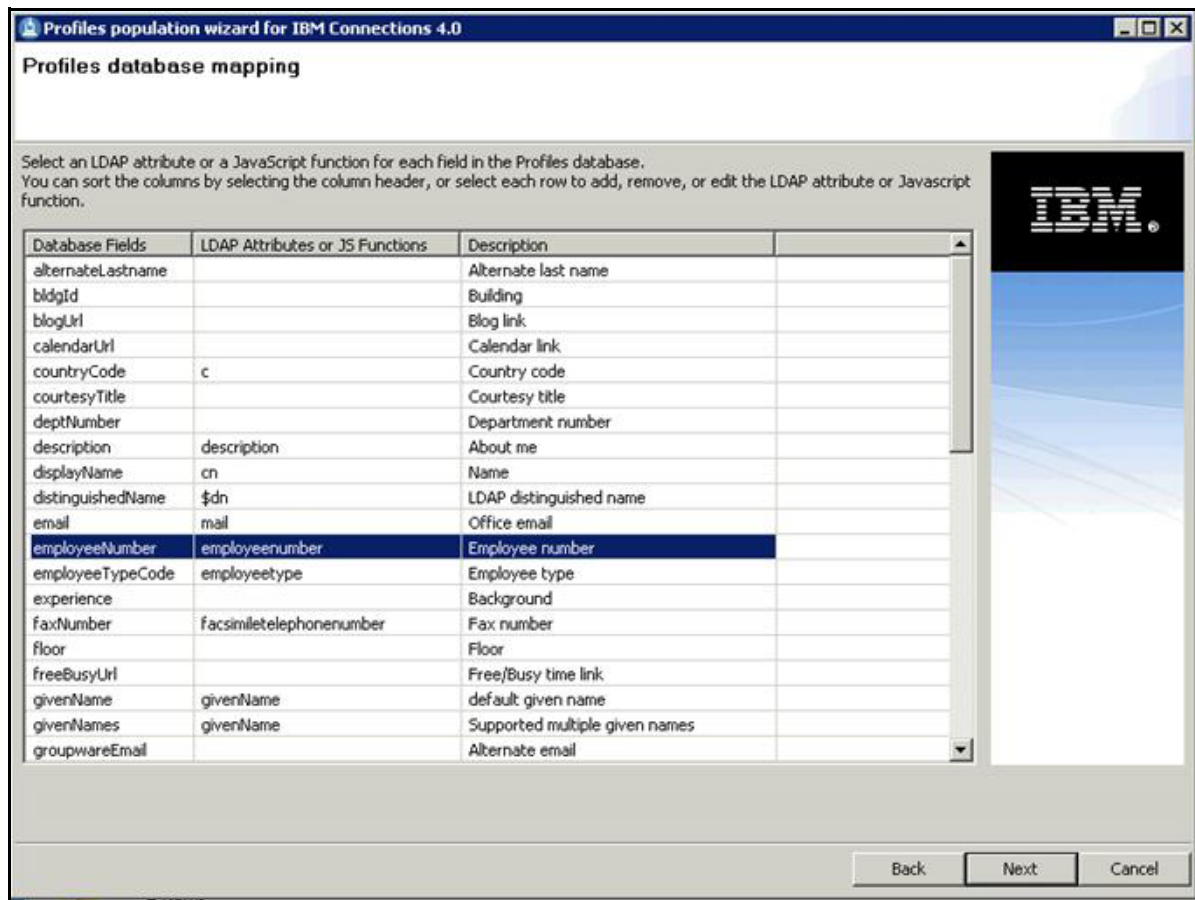
8. Select and LDAP attribute and click **Next**.

Figure 72. Profiles population wizard for IBM Connections 4.0: Profiles database mapping screen

9. Select the check box for each type of optional information that you want to add and click **Next**.

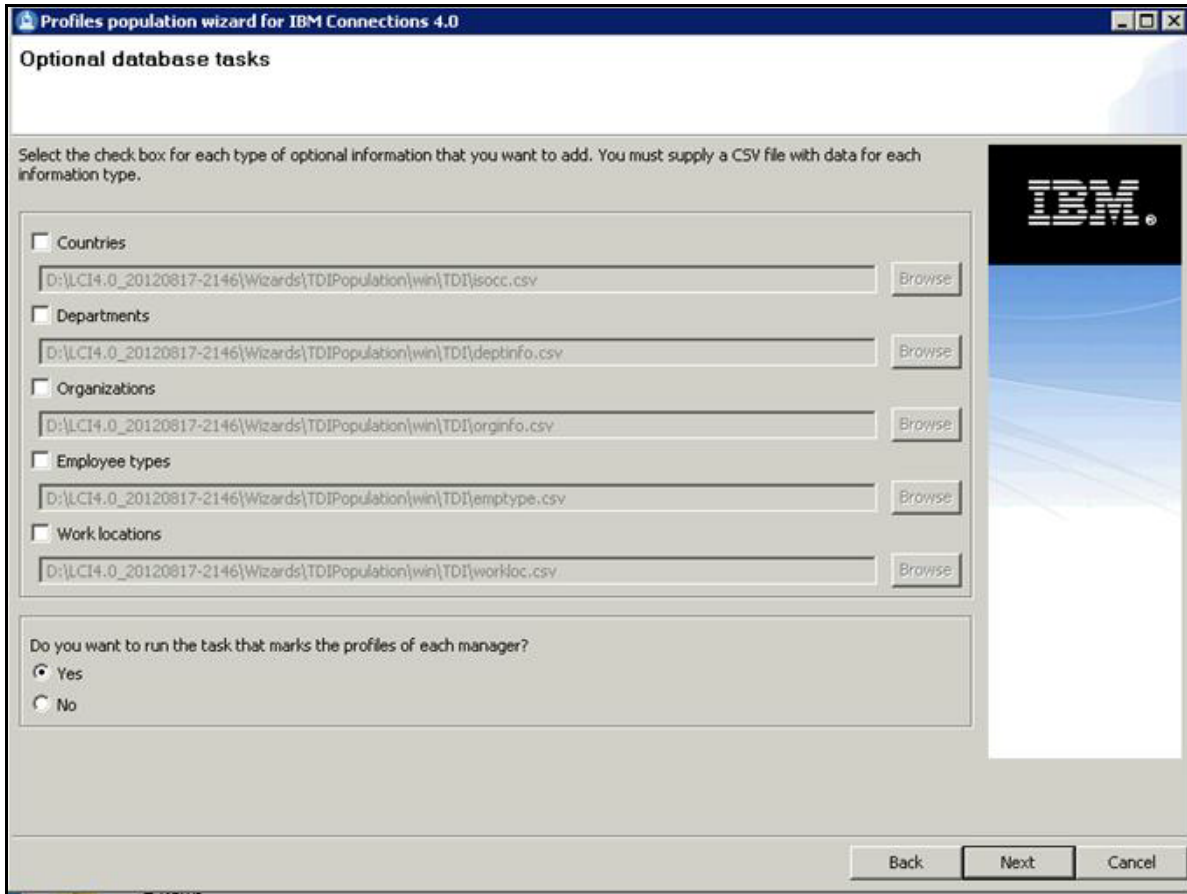


Figure 73. Profiles population wizard for IBM Connections 4.0: Optional database tasks screen

10. Check the population configuration summary and click **Configure**.

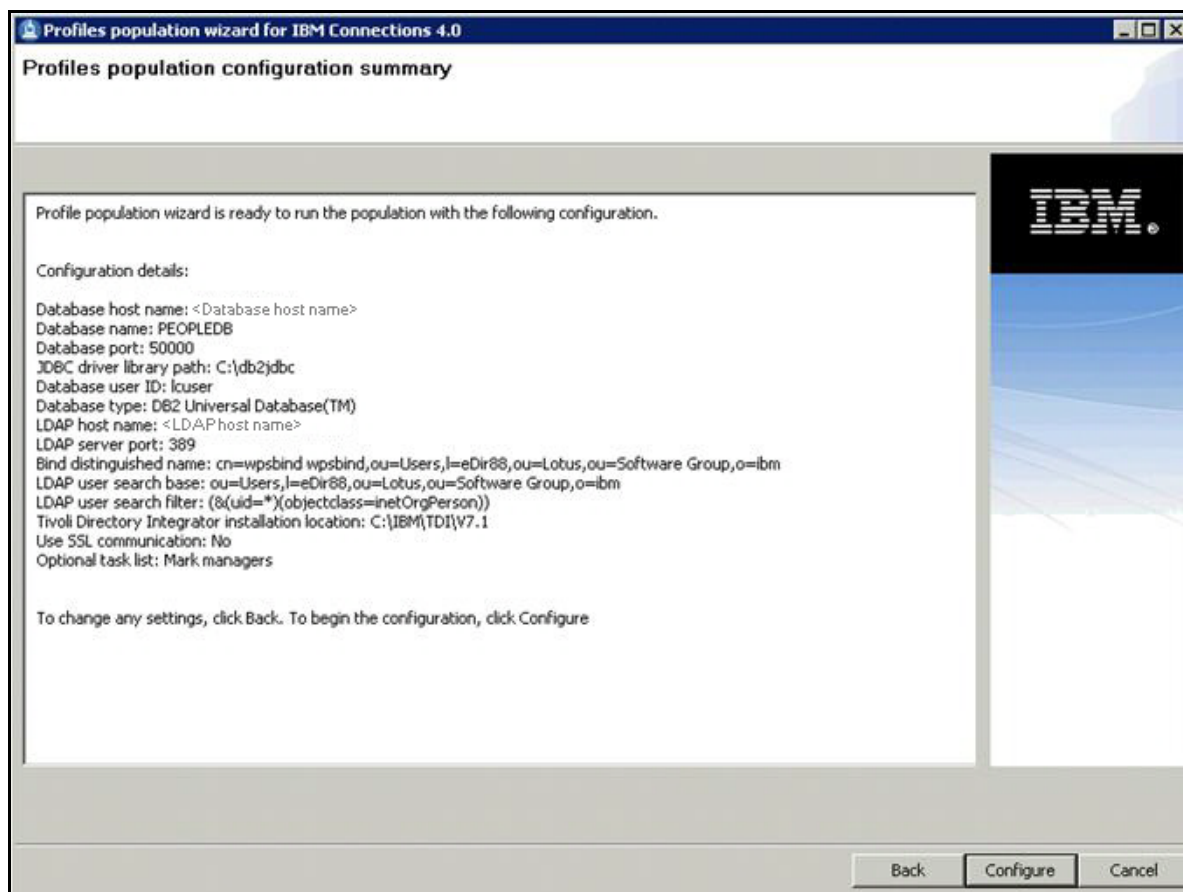


Figure 74. Profiles population wizard for IBM Connections 4.0: Profiles population configuration summary screen

___ 11. The population task begins.

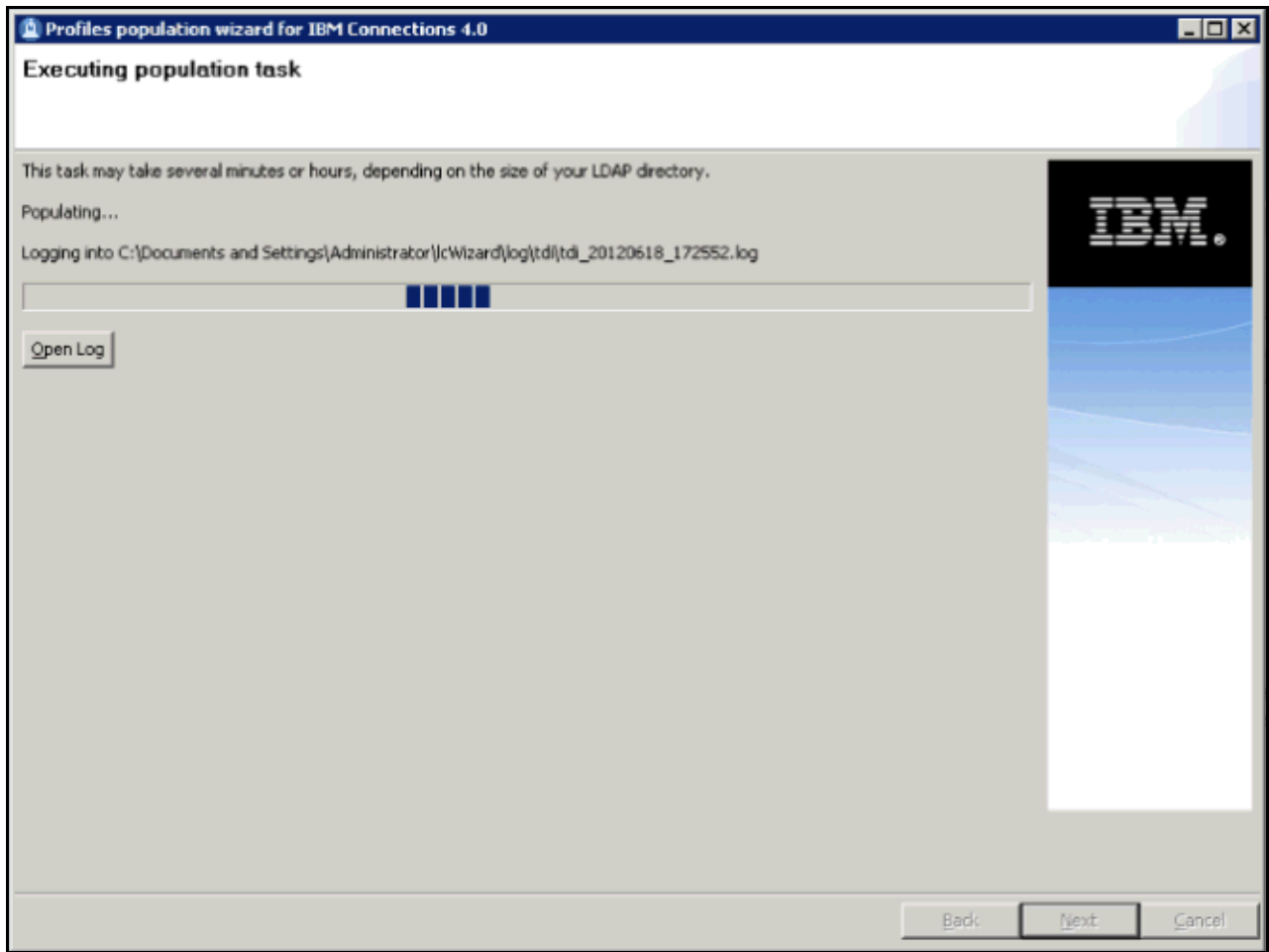
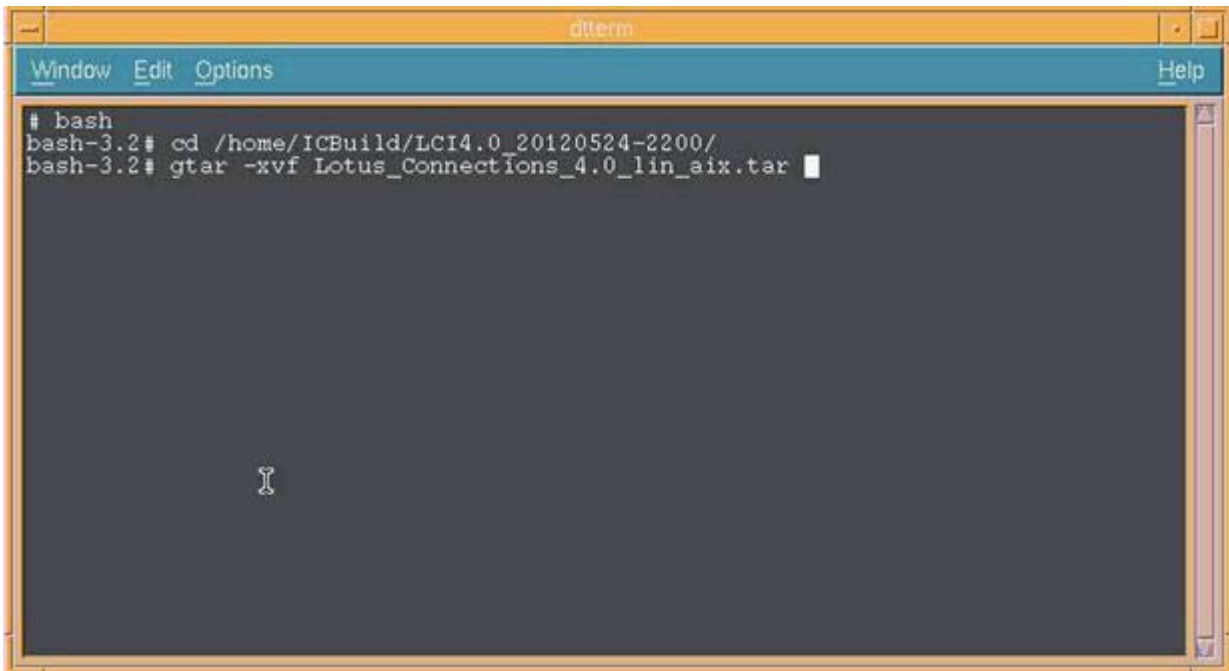


Figure 75. Profiles population wizard for IBM Connections 4.0: Population task in progress

Install Connections

Assume that WebSphere Network deployment is already installed.

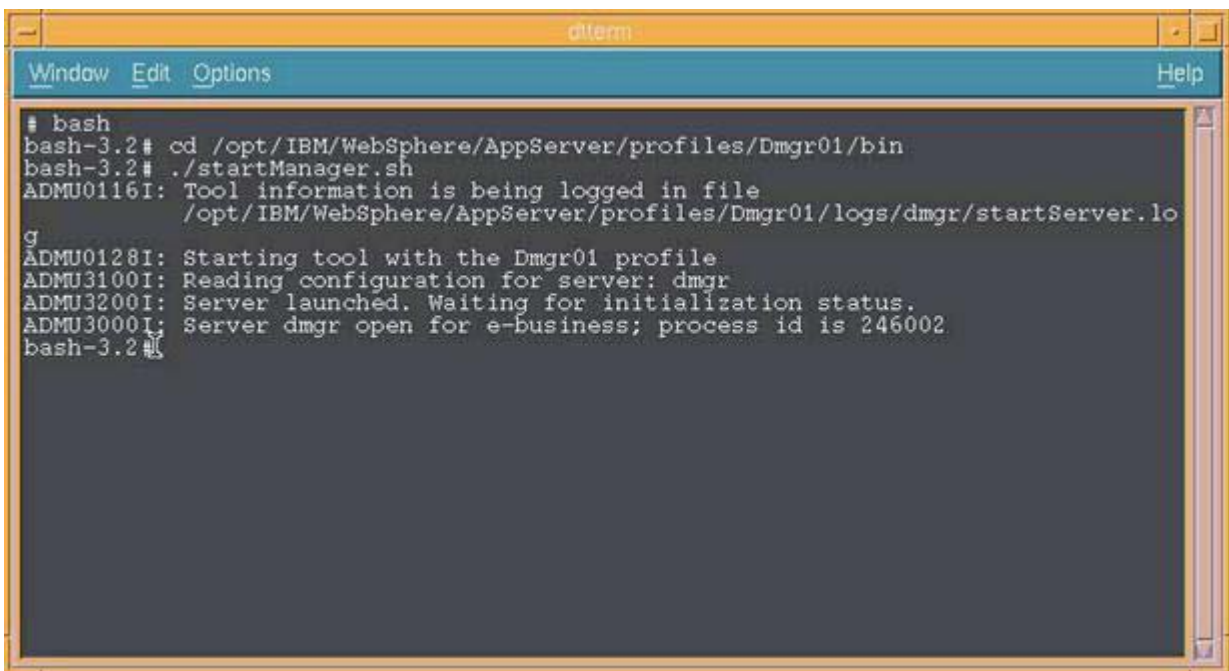
1. Extract the Installation files.



```
dterm
Window Edit Options Help
# bash
bash-3.2# cd /home/ICBuild/LCI4.0_20120524-2200/
bash-3.2# gtar -xvf Lotus_Connections_4.0_lin_aix.tar
```

Figure 76. Install Connections

2. Start WebSphere Application Server Network Deployment Manager.



```
dterm
Window Edit Options Help
# bash
bash-3.2# cd /opt/IBM/WebSphere/AppServer/profiles/Dmgr01/bin
bash-3.2# ./startManager.sh
ADMU0116I: Tool information is being logged in file
/opt/IBM/WebSphere/AppServer/profiles/Dmgr01/logs/dmgr/startServer.log
ADMU0128I: Starting tool with the Dmgr01 profile
ADMU3100I: Reading configuration for server: dmgr
ADMU3200I: Server launched. Waiting for initialization status.
ADMU3000I: Server dmgr open for e-business; process id is 246002
bash-3.2#
```

Figure 77. Starting WebSphere Application Server Network Deployment Manager

3. Start IBM Installation Manager.

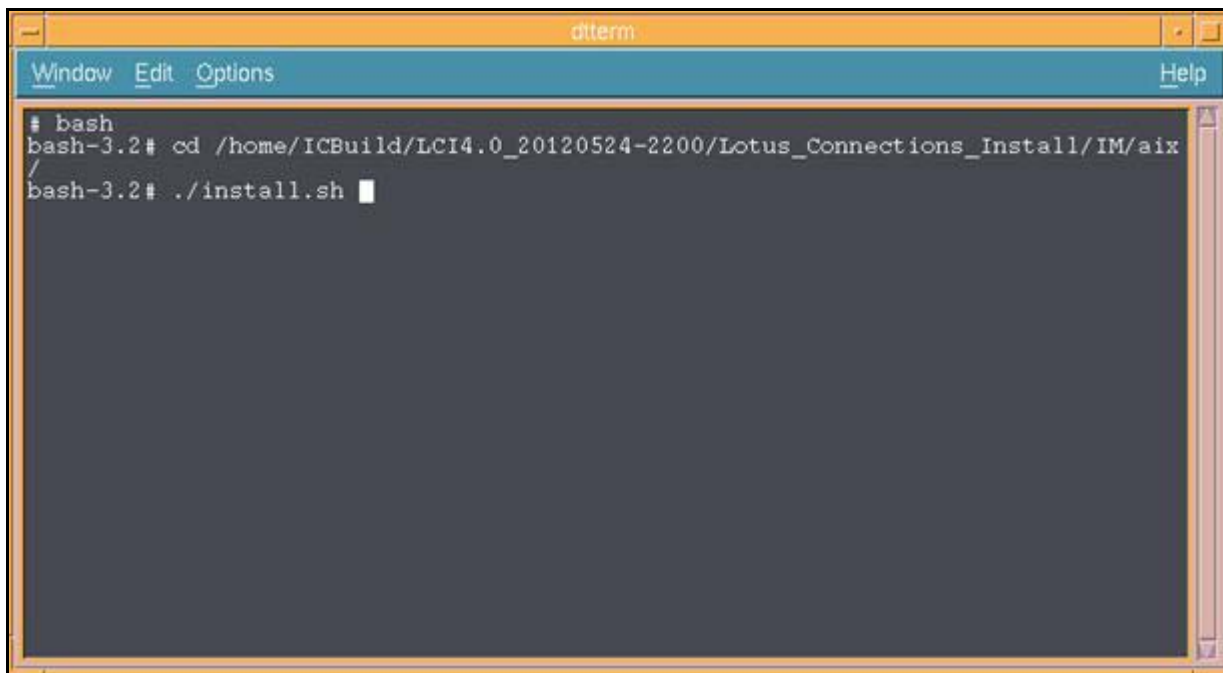


Figure 78. Starting IBM Installation Manager

4. In the Select packages to install window, select the packages that you want to install and click **Next** to continue.

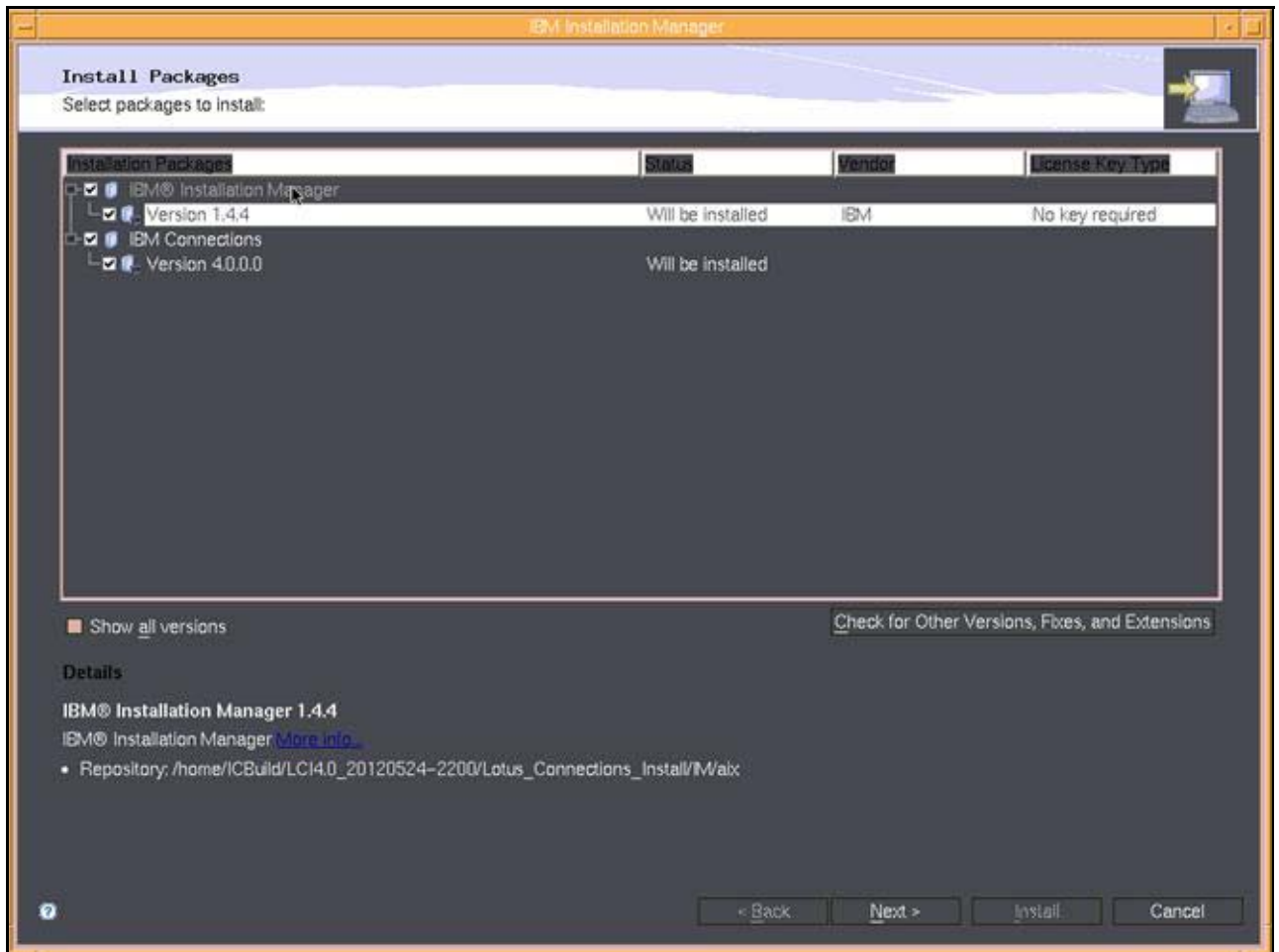


Figure 79. Extracting the installation files

- ___ 5. Review and accept the license agreement by clicking **I accept the terms in the license agreements**. Click **Next**.

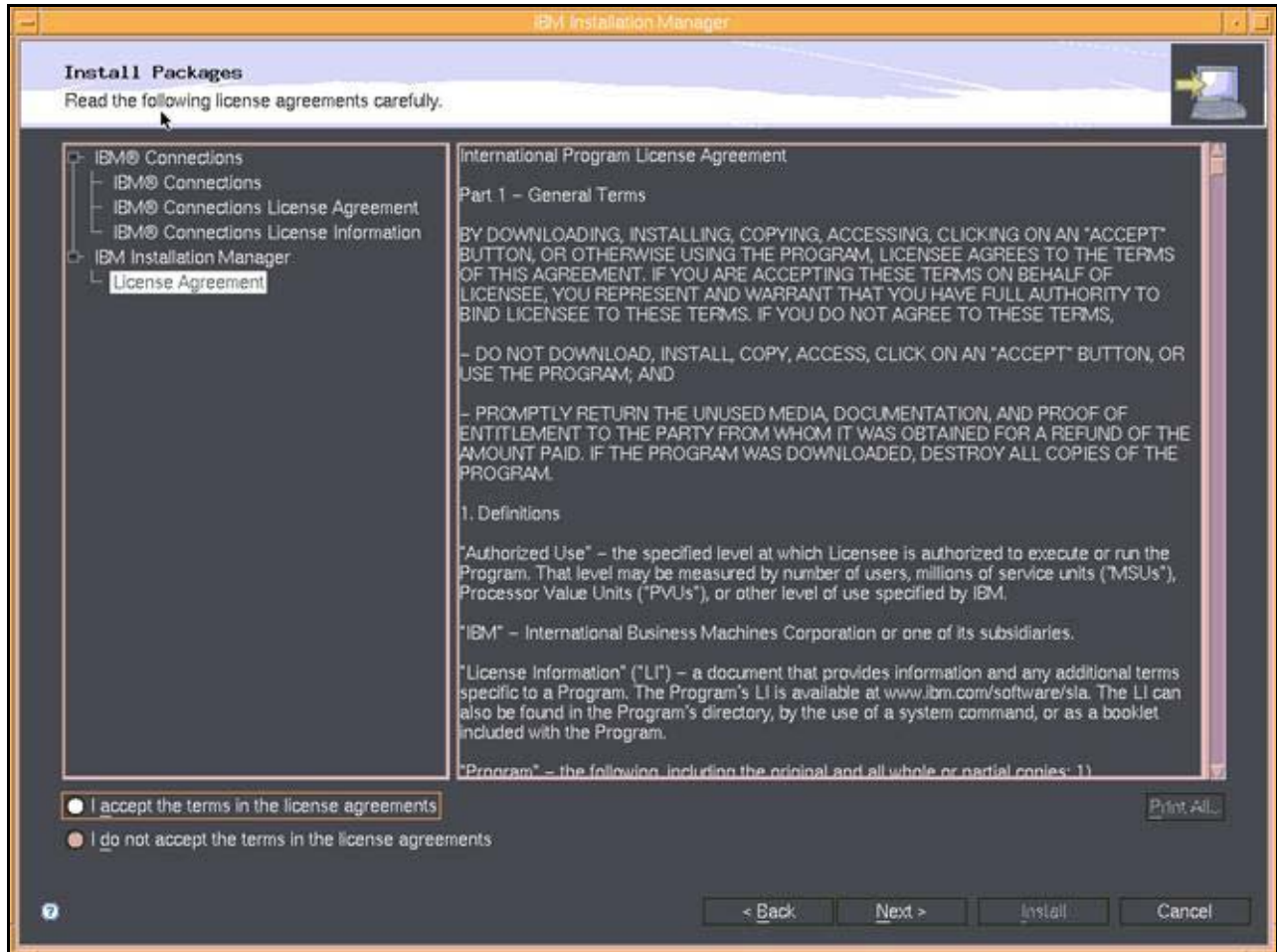


Figure 80. Accepting the terms in the license agreements

- ___ 6. Specify the location of shared directories for IBM Installation Manager.
- ___ a. Specify the location of the Shared Resources Directory.
 - ___ b. Specify the location of the Installation Manager Directory. This option appears only if IBM Installation Manager is not previously installed.

___ c. Click **Next**.

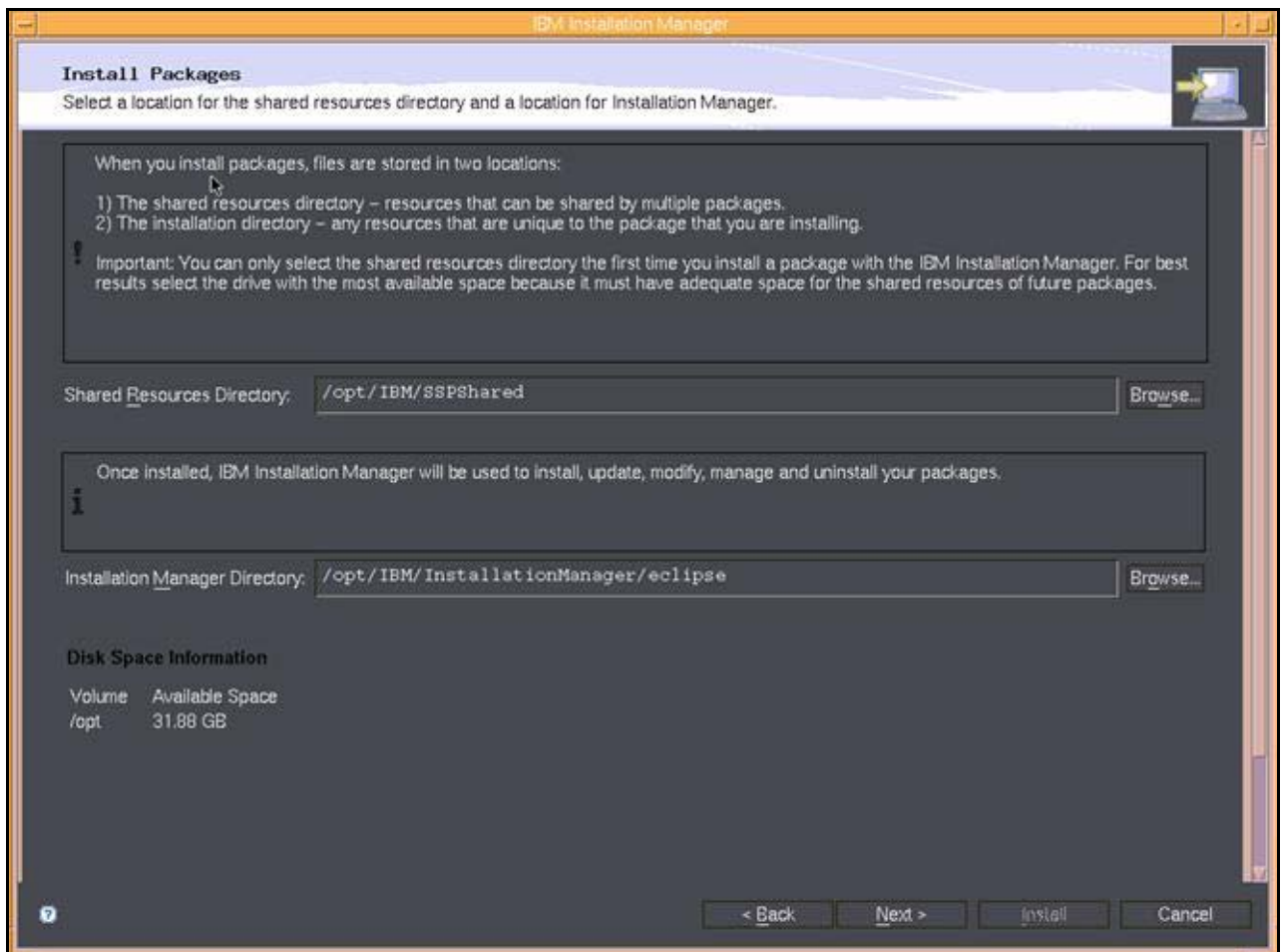


Figure 81. Specifying the location of shared directories for IBM Installation Manager

7. Specify the location of the installation directory for IBM Connections.

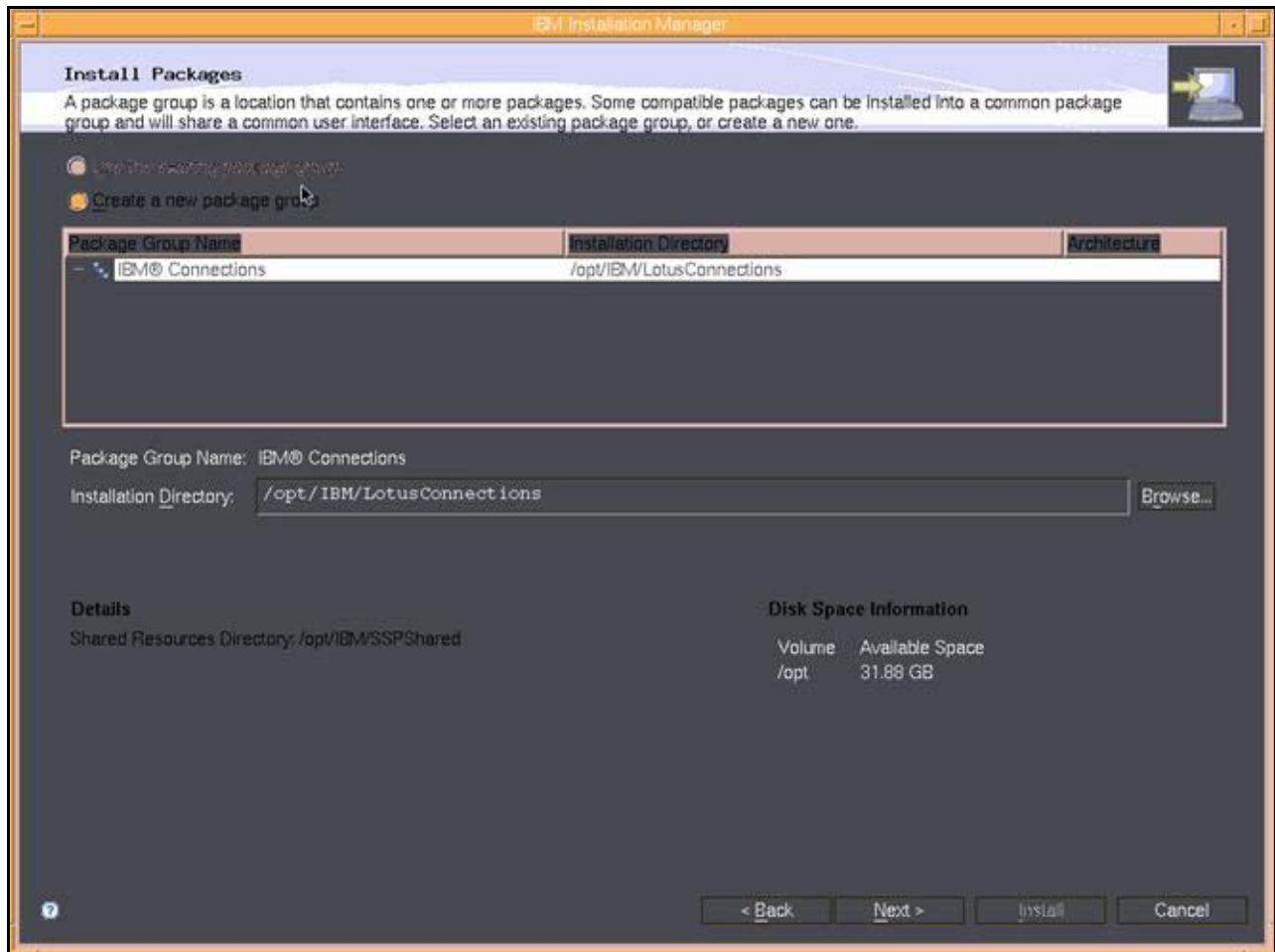


Figure 82. Specifying the location of the installation directory for IBM Connections

8. Confirm the applications that you want to install:

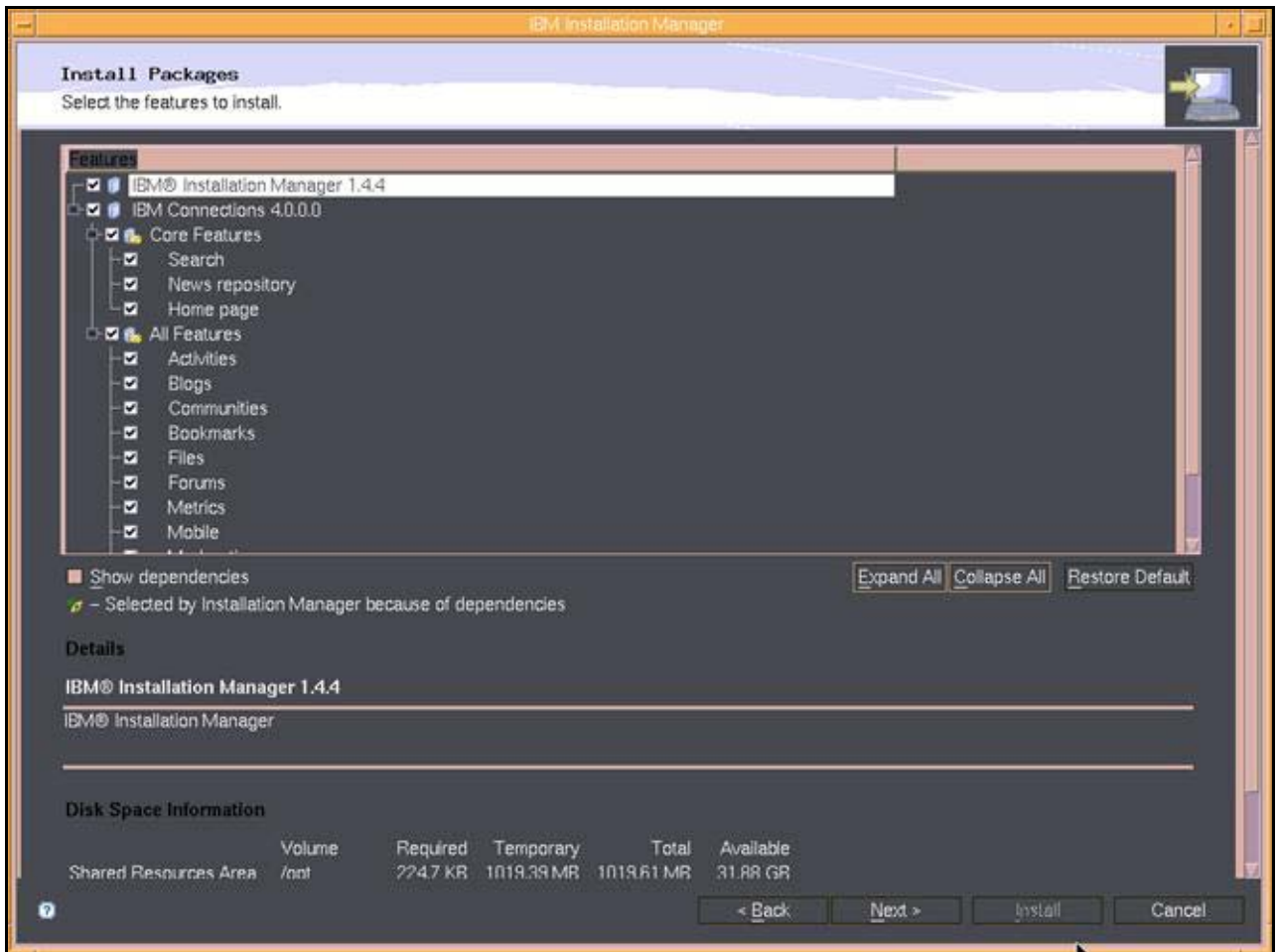


Figure 83. Selecting the features to install

- ___ a. Clear **Metrics**.
- ___ b. Click **Next**.

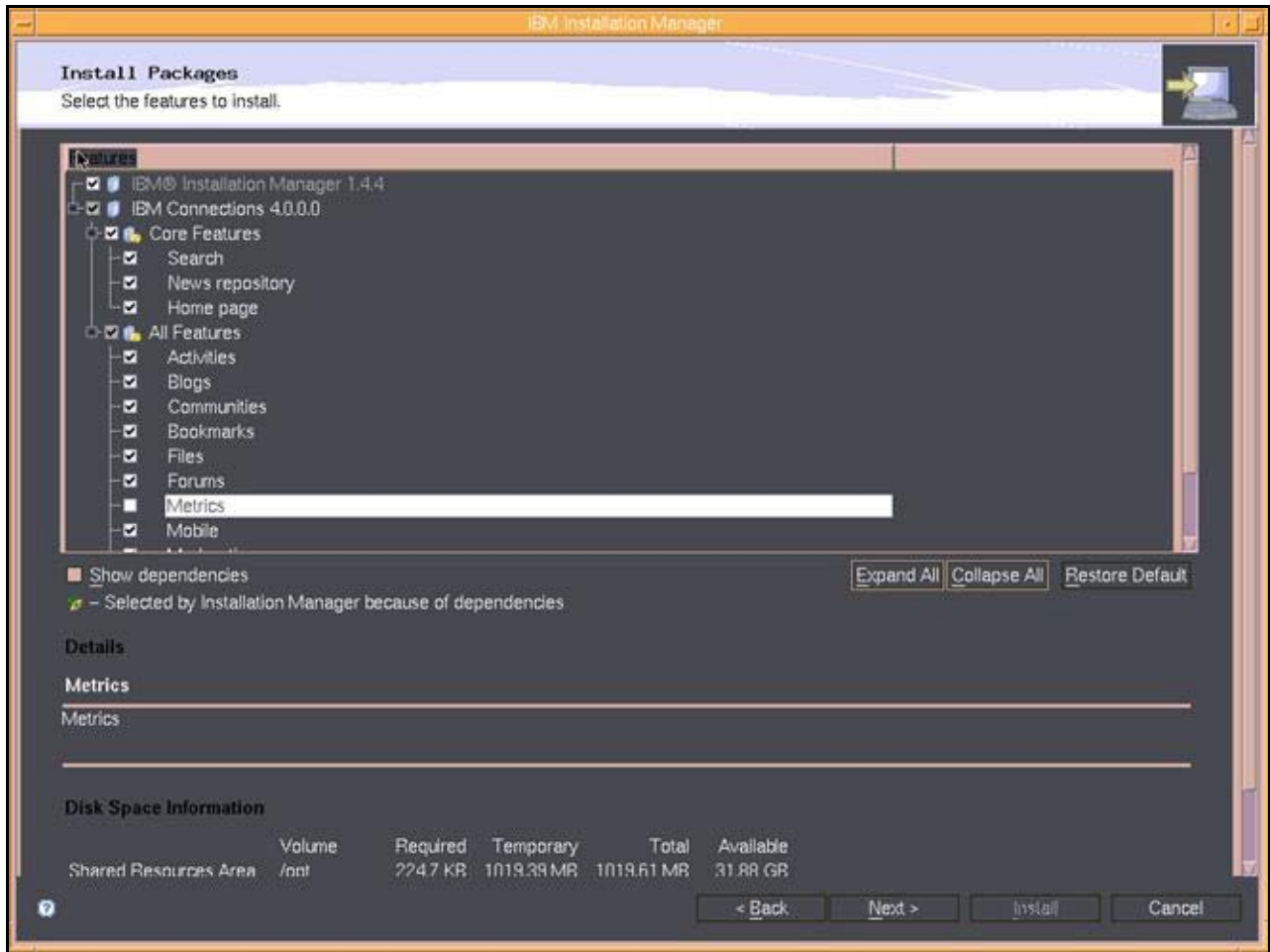


Figure 84. Selecting the features to install: clearing Metrics

- ___ 9. Enter the details of your WebSphere Application Server environment:
 - ___ a. Select the WebSphere Application Server installation location that contains the Deployment Manager.

- ___ b. Enter the properties of the WebSphere Application Server Deployment Manager.

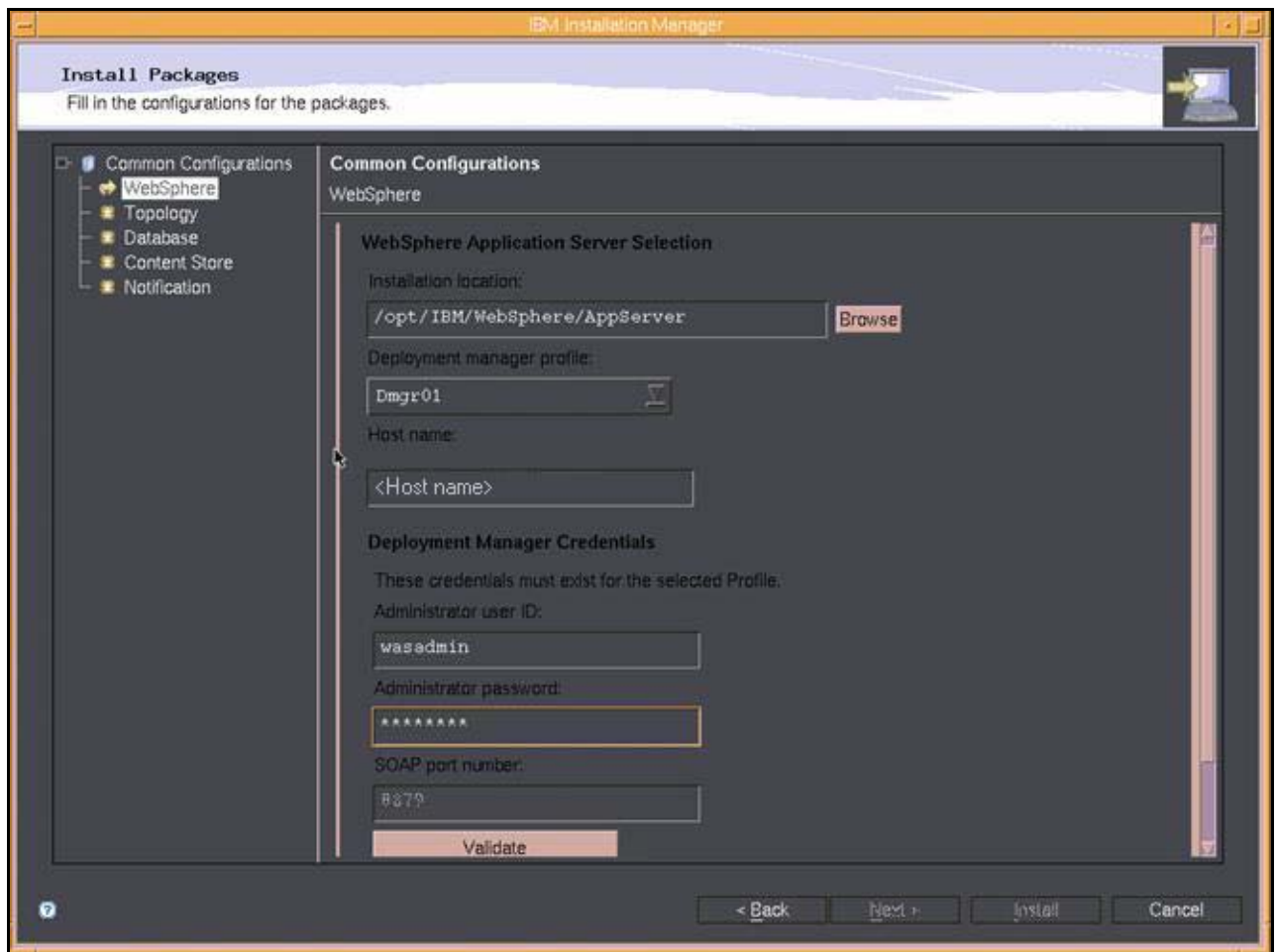


Figure 85. Entering the details of the WebSphere Application Server environment

- ___ c. Click **Validate** to verify the Deployment Manager information that you entered and that application security is enabled on WebSphere Application Server.

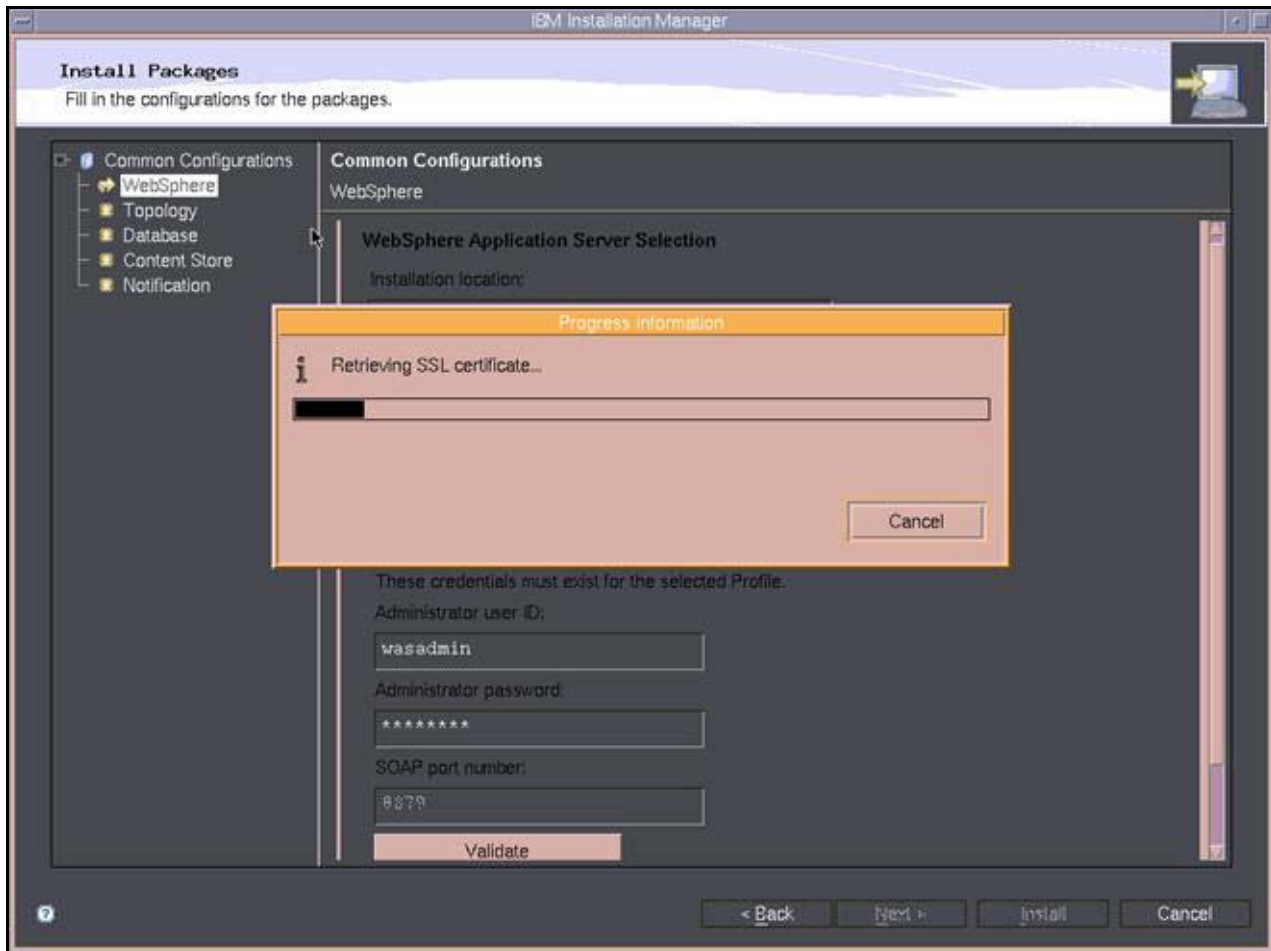


Figure 86. Verifying the Deployment Manager information



Note

If the verification fails, IBM Installation Manager displays an error message.

___ d. When the verification test is successful, click **Next**.

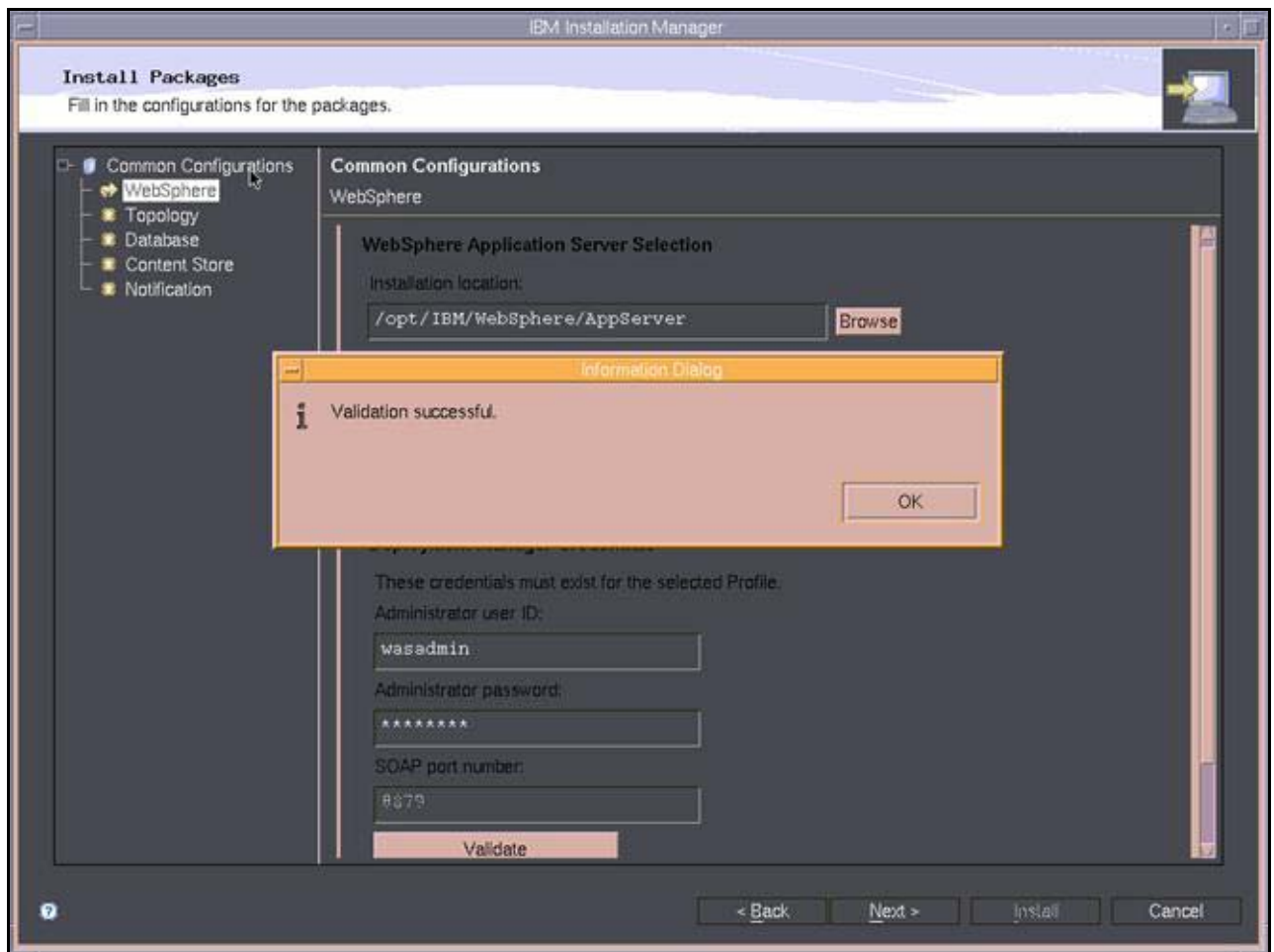


Figure 87. Validation successful message

10. Configure your topology and click **Next**.

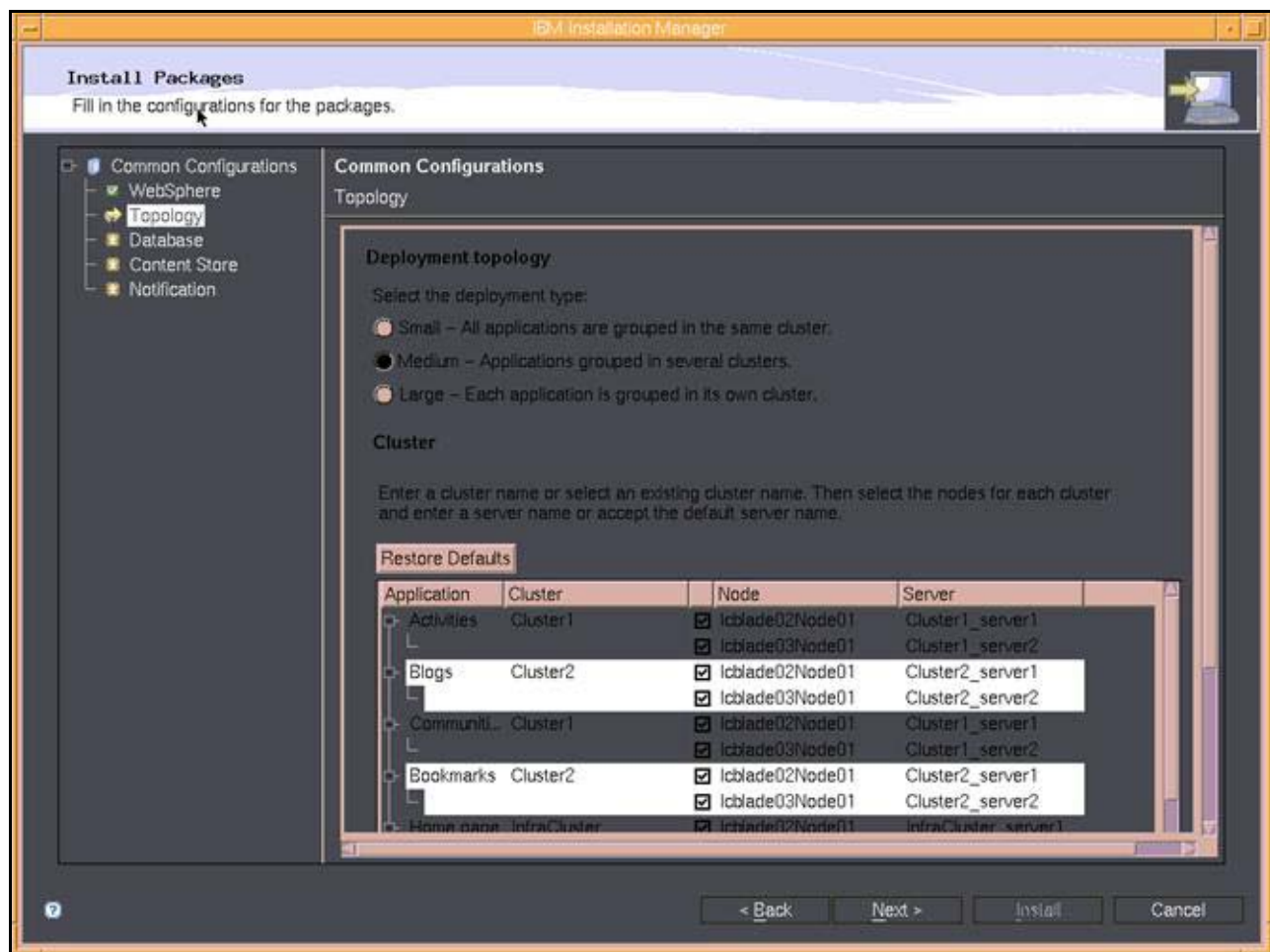


Figure 88. Configuring topology

11. Enter the database information.

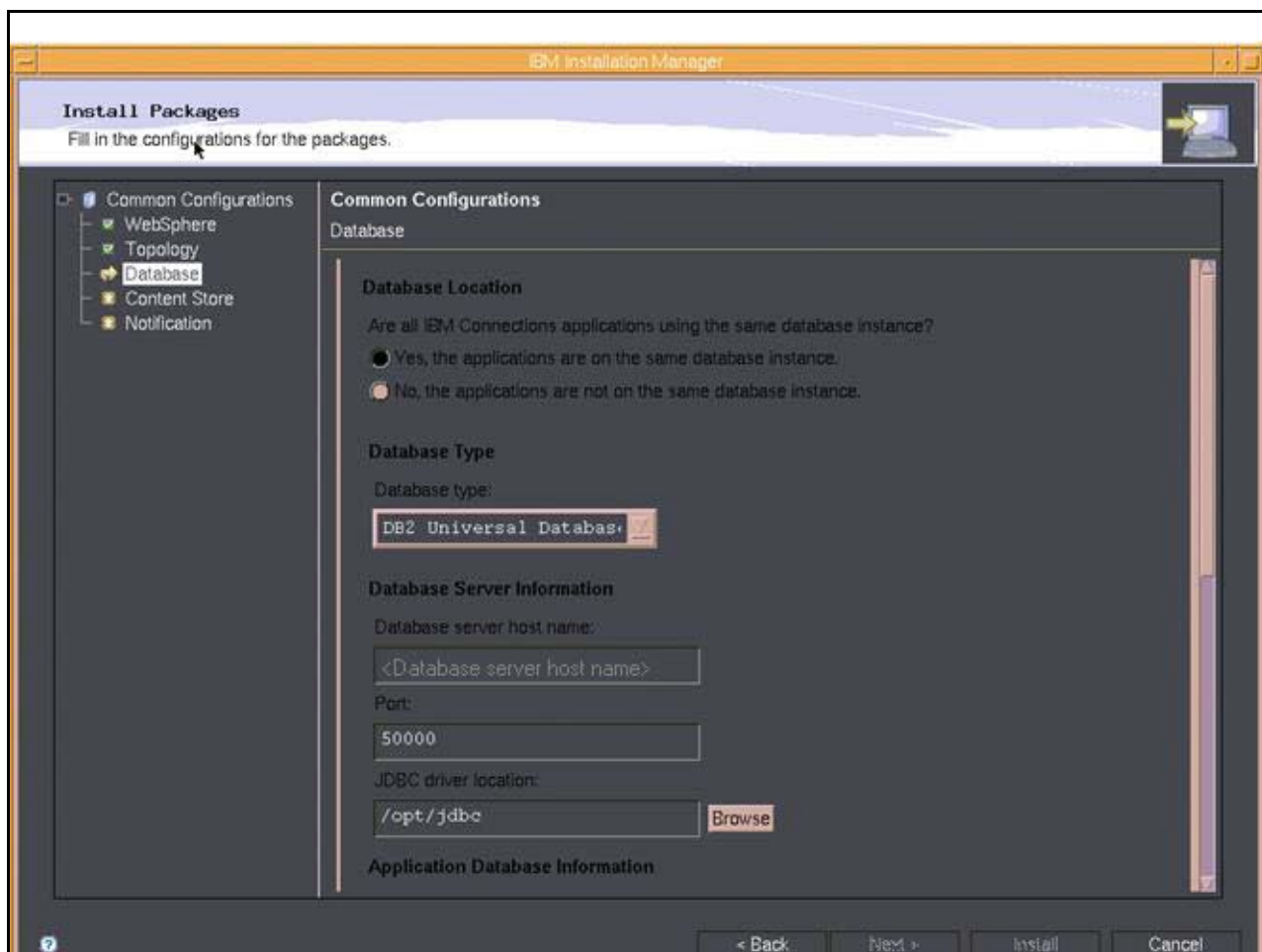


Figure 89. Entering the database information

- ___ a. Click **Validate**.
- ___ b. Click **OK** to close the validation message.

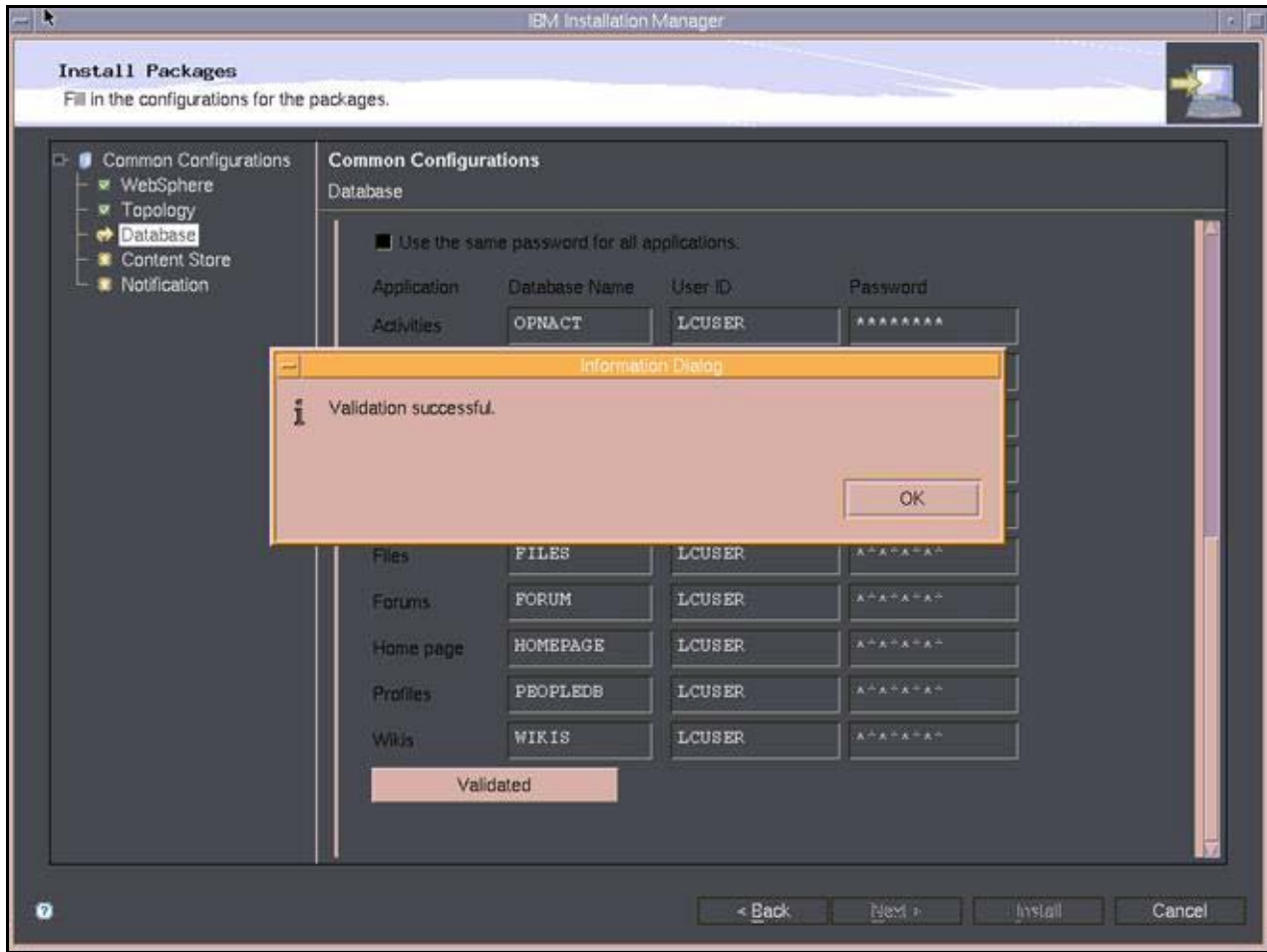


Figure 90. Validation successful message

12. Specify the locations of the content stores.

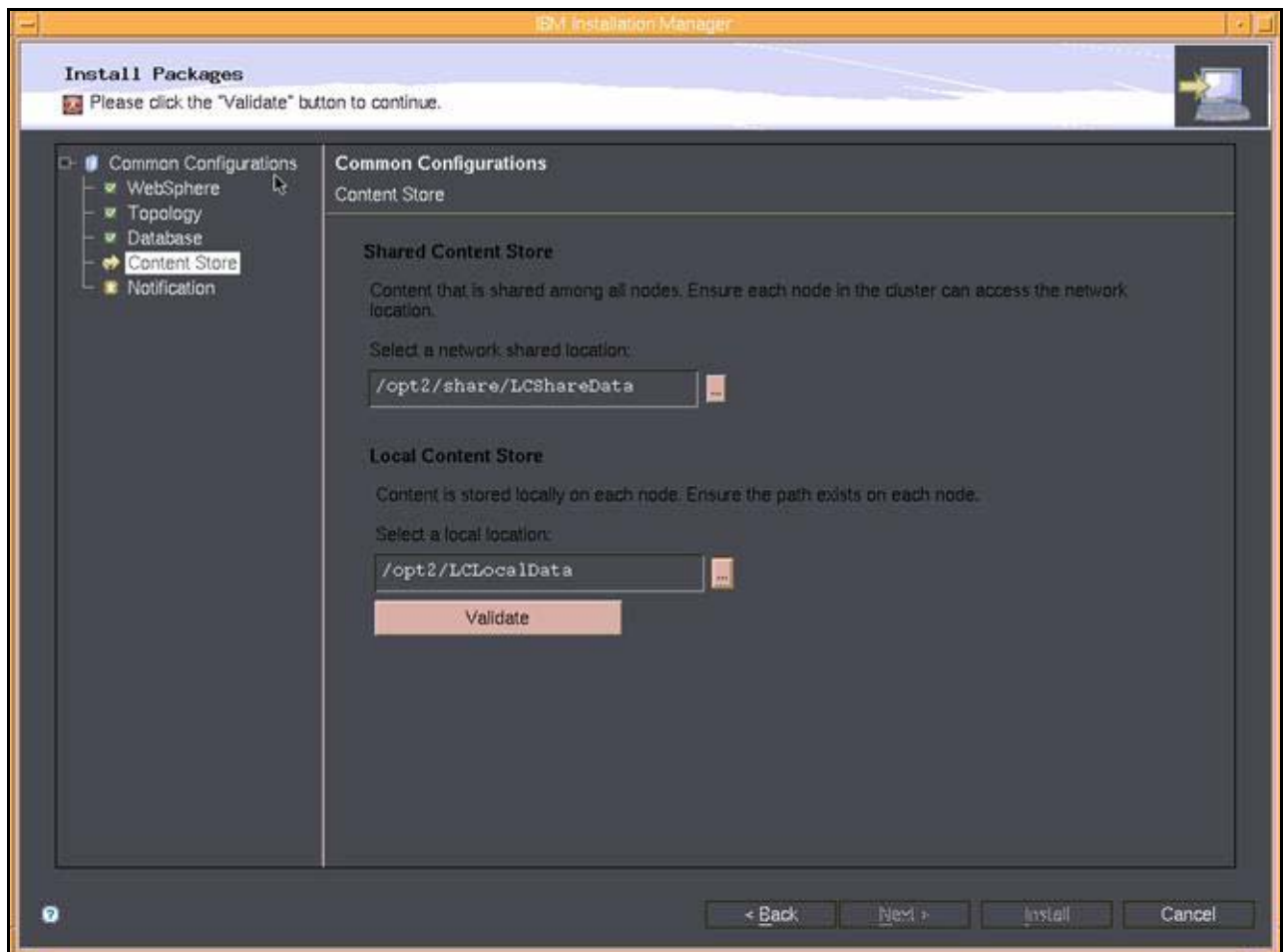


Figure 91. Specifying the locations of the content stores

- ___ a. Click **Validate**.
- ___ b. Click **OK** to close the validation message.

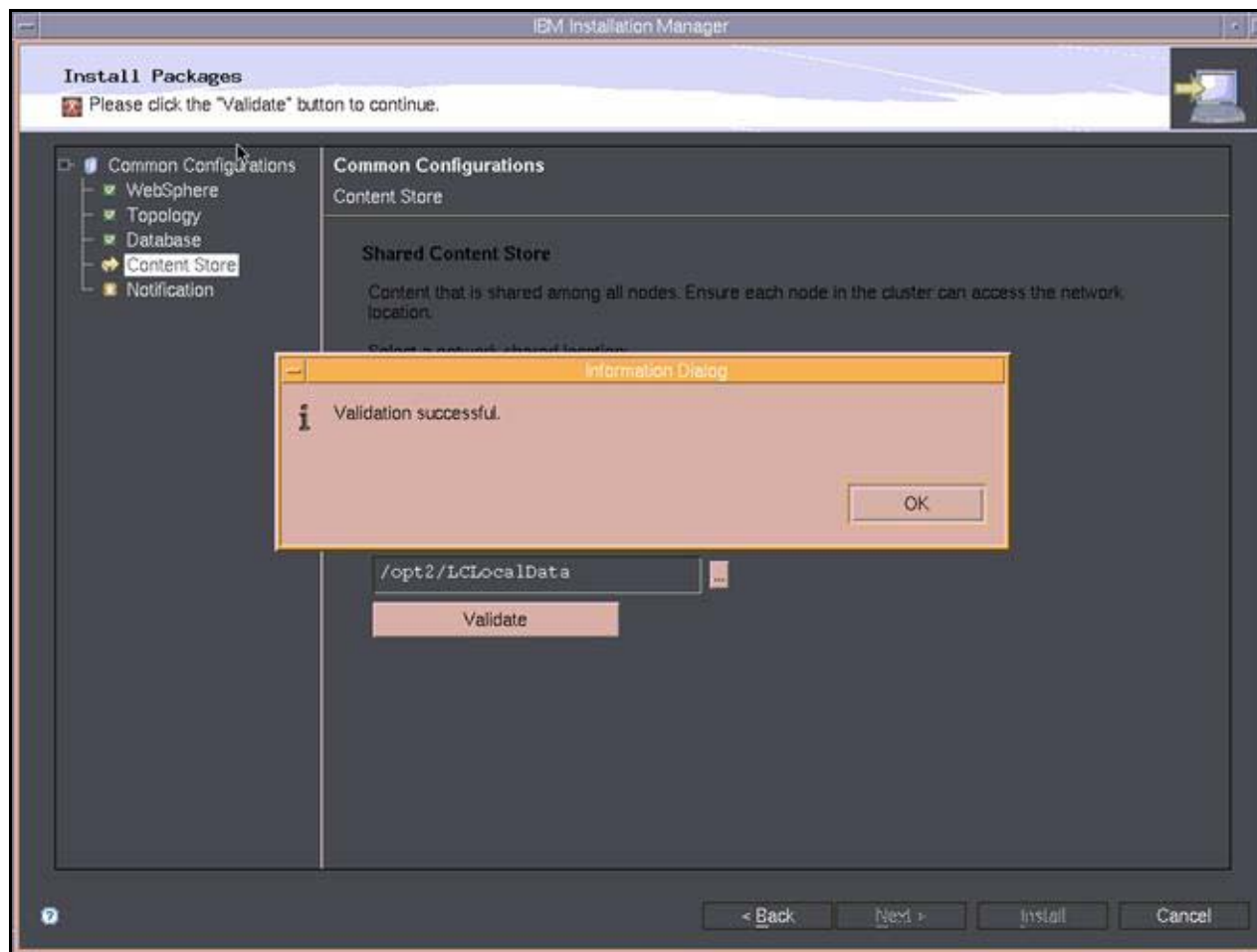


Figure 92. Validation successful message

13. Select a Notification solution and click **Next**.

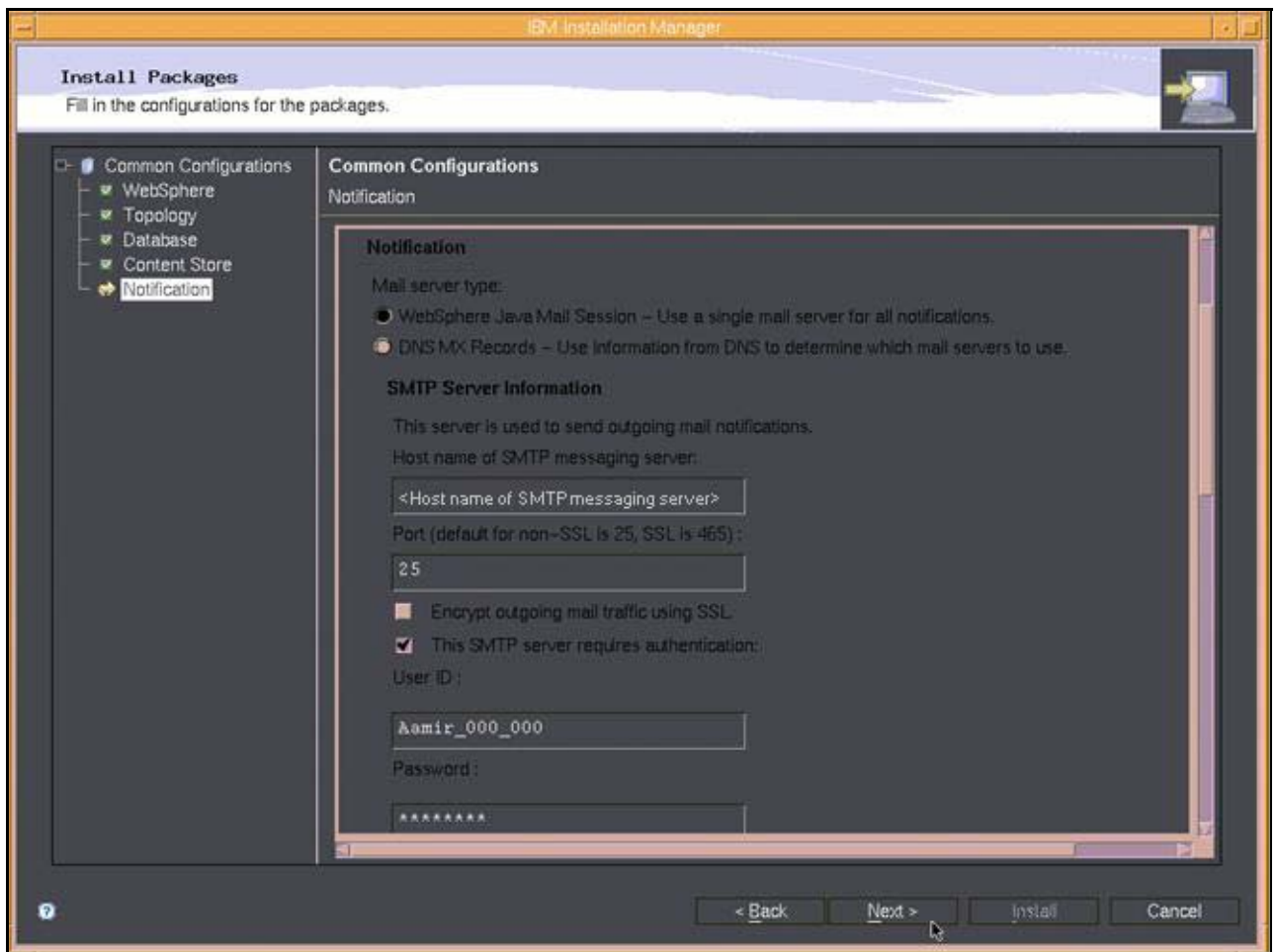


Figure 93. Selecting a notification solution (1 of 2)

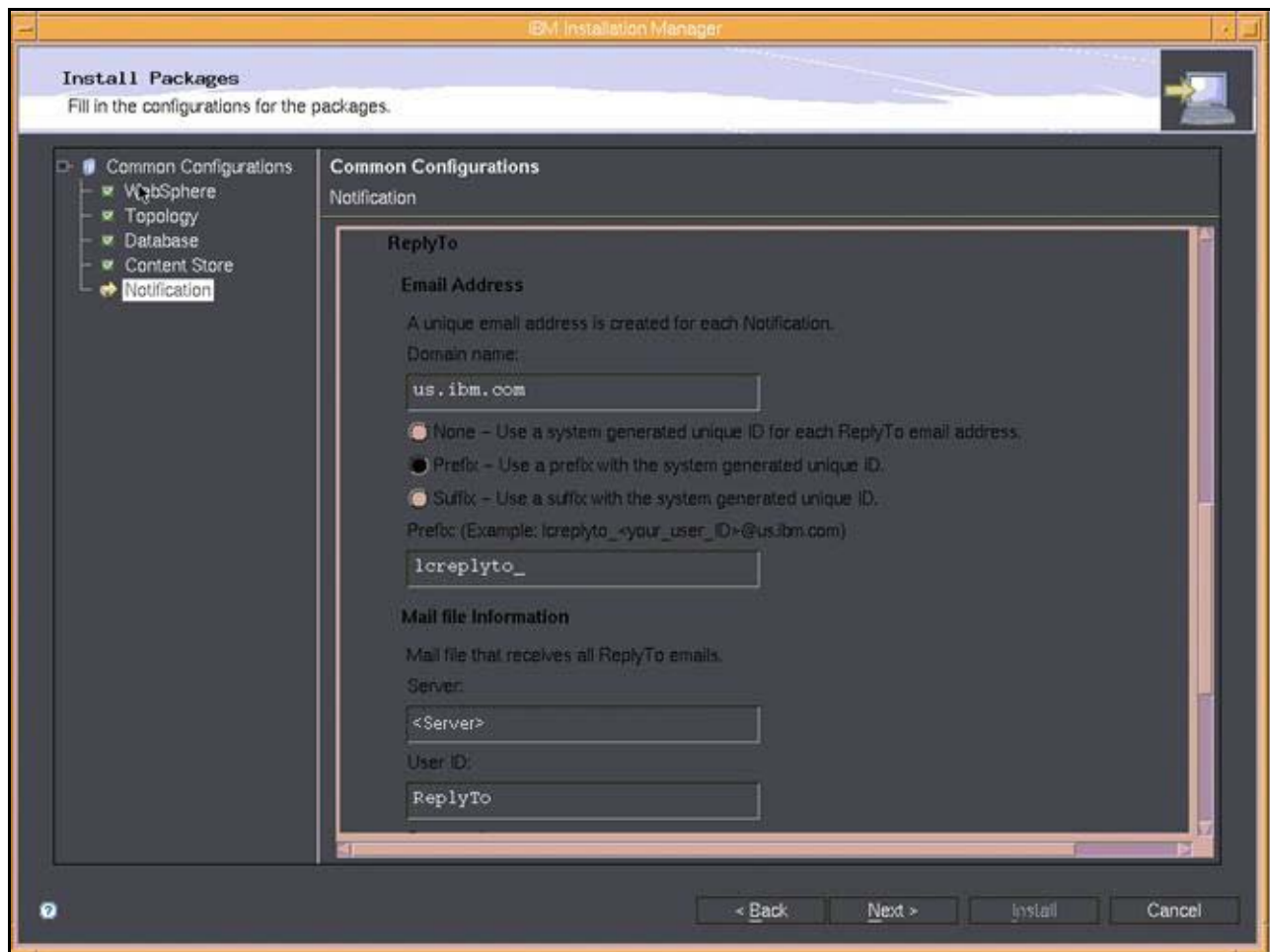


Figure 94. Selecting a notification solution (2 of 2)

14. Review the information that you entered. To revise your selections, click **Back**. To finalize the installation, click **Next**.

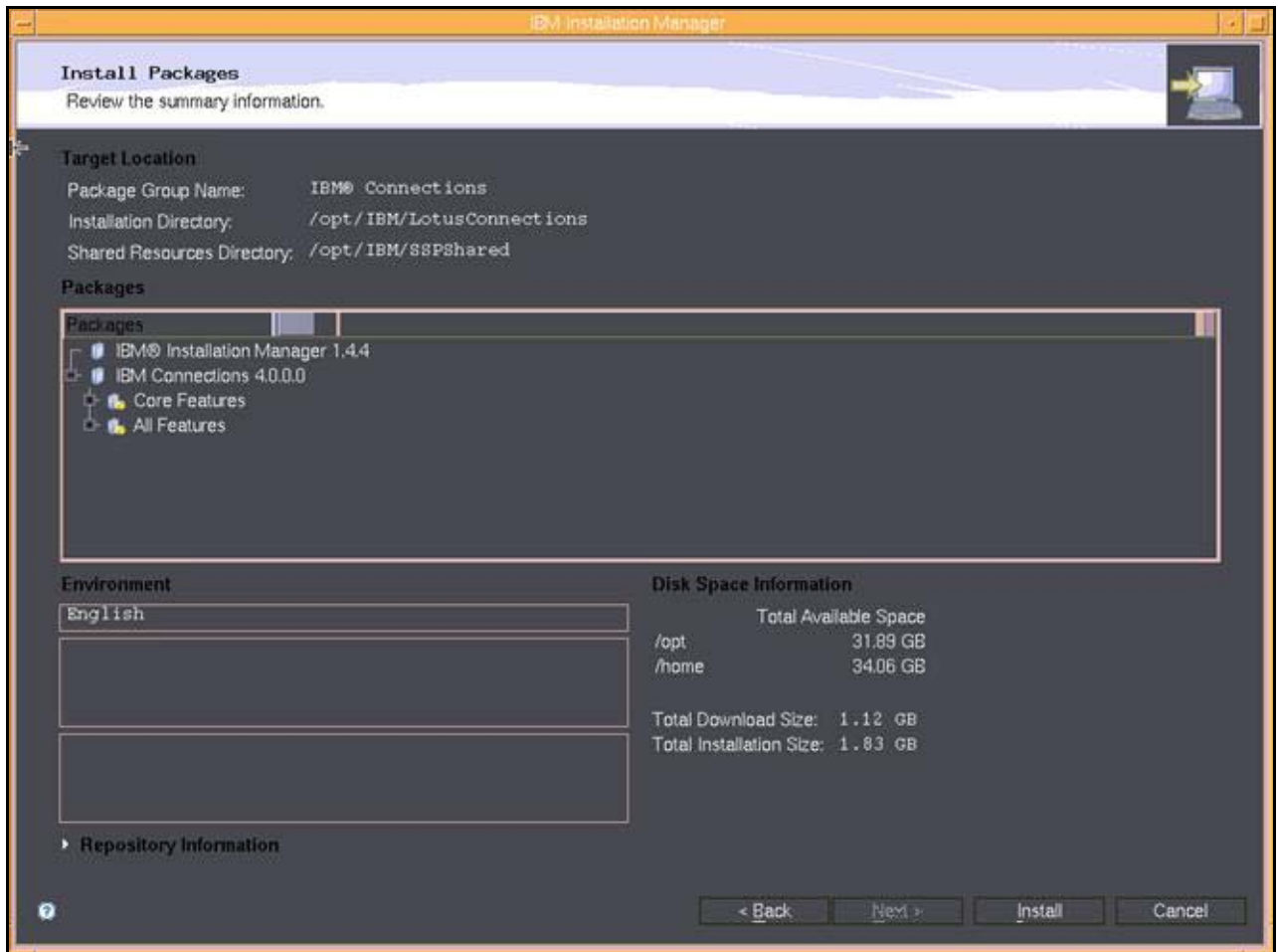


Figure 95. Summary information

15. To start the installation, click **Install**.

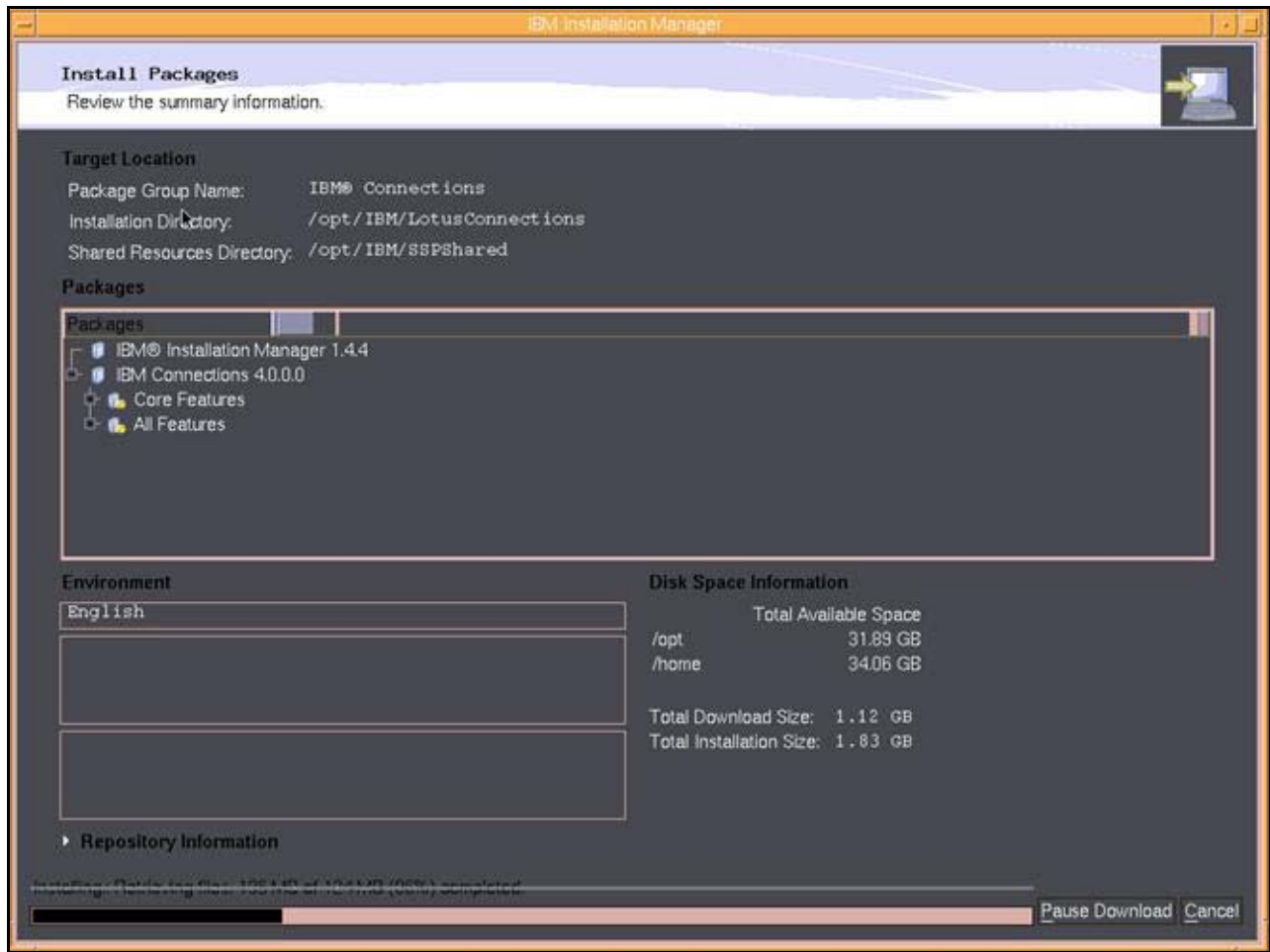


Figure 96. Installation in progress

16. Review the result of the installation. Click **Finish** to exit the installation wizard.

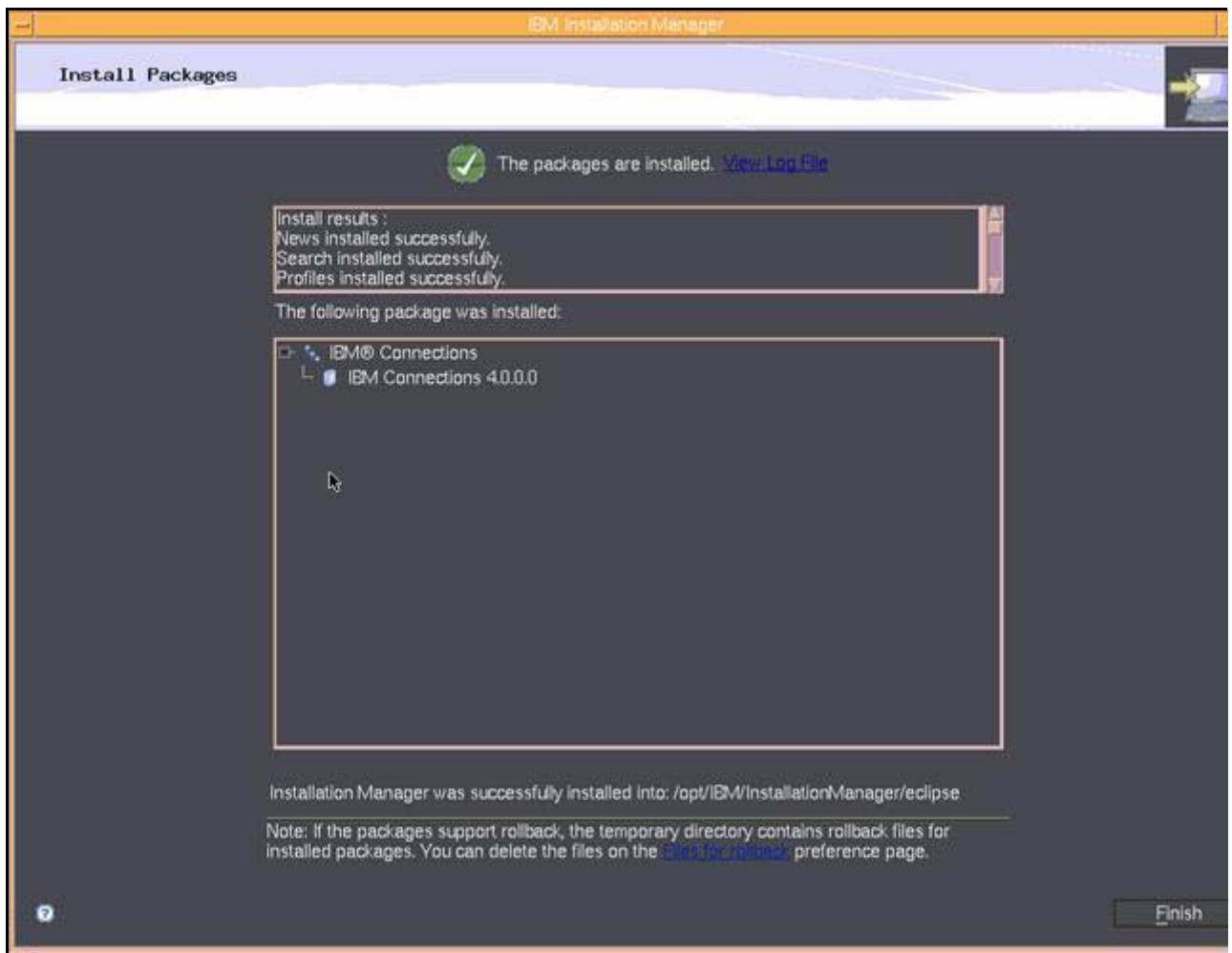
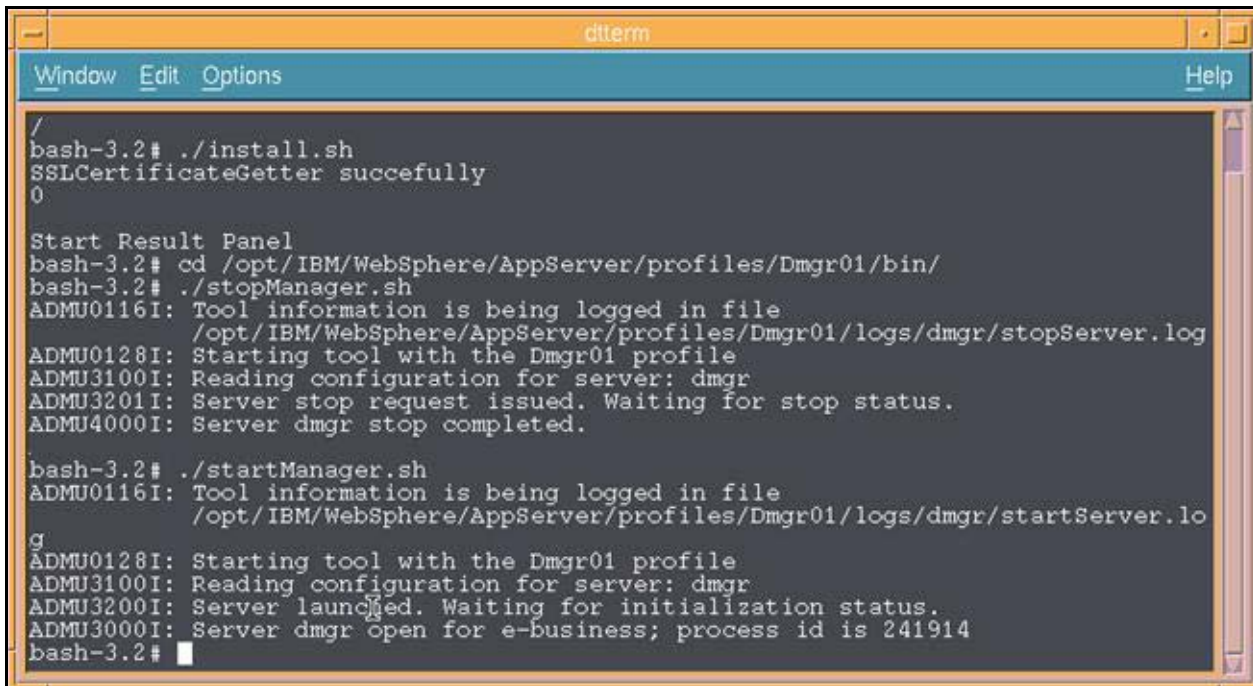


Figure 97. Installation completion

17. Restart the Deployment Manager.



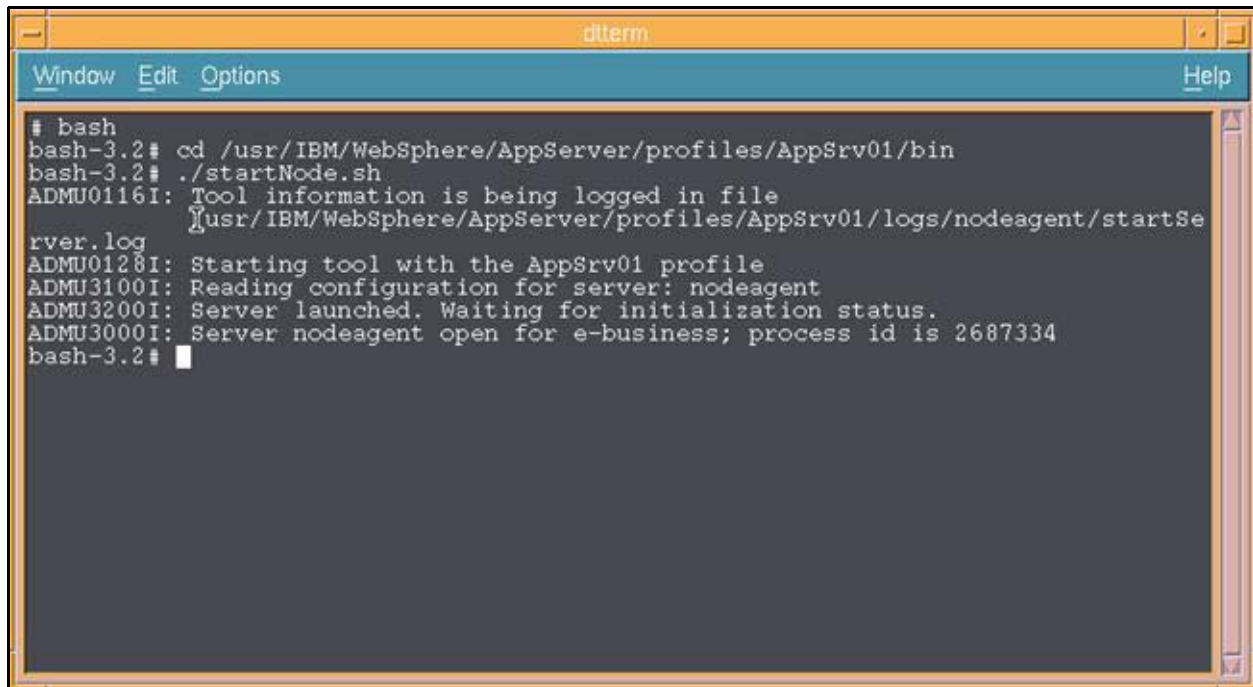
```
dterm
Window Edit Options Help
/
bash-3.2# ./install.sh
SSLCertificateGetter succefully
0

Start Result Panel
bash-3.2# cd /opt/IBM/WebSphere/AppServer/profiles/Dmgr01/bin/
bash-3.2# ./stopManager.sh
ADMU0116I: Tool information is being logged in file
/opt/IBM/WebSphere/AppServer/profiles/Dmgr01/logs/dmgr/stopServer.log
ADMU0128I: Starting tool with the Dmgr01 profile
ADMU3100I: Reading configuration for server: dmgr
ADMU3201I: Server stop request issued. Waiting for stop status.
ADMU4000I: Server dmgr stop completed.

bash-3.2# ./startManager.sh
ADMU0116I: Tool information is being logged in file
/opt/IBM/WebSphere/AppServer/profiles/Dmgr01/logs/dmgr/startServer.lo
g
ADMU0128I: Starting tool with the Dmgr01 profile
ADMU3100I: Reading configuration for server: dmgr
ADMU3200I: Server launched. Waiting for initialization status.
ADMU3000I: Server dmgr open for e-business; process id is 241914
bash-3.2#
```

Figure 98. Restarting the Deployment Manager

18. Start all the federated nodes and enter the startNode command.



```
dterm
Window Edit Options Help
# bash
bash-3.2# cd /usr/IBM/WebSphere/AppServer/profiles/AppSrv01/bin
bash-3.2# ./startNode.sh
ADMU0116I: Tool information is being logged in file
/usr/IBM/WebSphere/AppServer/profiles/AppSrv01/logs/nodeagent/startSe
rver.log
ADMU0128I: Starting tool with the AppSrv01 profile
ADMU3100I: Reading configuration for server: nodeagent
ADMU3200I: Server launched. Waiting for initialization status.
ADMU3000I: Server nodeagent open for e-business; process id is 2687334
bash-3.2#
```

Figure 99. Starting all the federated nodes

19. Log in to the Integrated Solutions Console on the Deployment Manager for a full synchronization of all nodes.

3. Post-installation

Configuring IBM HTTP Server with SSL

Defining IBM HTTP Server

1. Log in to the WebSphere Application Server Integrated Solutions Console on the Deployment Manager and select **System administration > Nodes**. Click **Add Node**.



Figure 100. Adding a node from the system administration

2. Choose **Unmanaged node**.

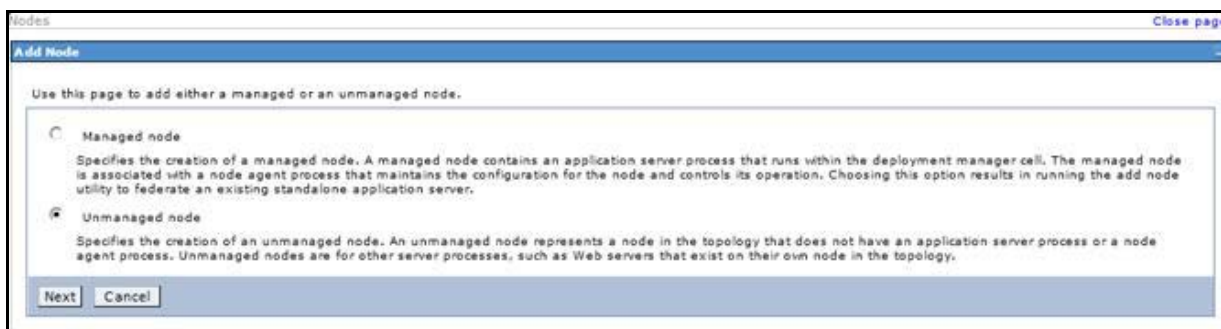


Figure 101. Selecting node type

3. Input node name and host name.

Nodes > New

Use this page to view or change the configuration for a node that does not have a node agent running to manage the node.

Configuration

General Properties

* Name

* Host Name

* Platform Type

The additional properties for this node are listed below.

Additional Properties

■ Custom

Figure 102. Inputting node name and host name

4. Click **OK** and then **Save**.

5. Select **Servers > Server Types > Web servers** and click **New**.

6. Select the node that you just created and input server name as **webserver1**.

Cell=lcblade01Cell01, Profile=Dmgr01

Create new Web server definition

Use this page to create a new Web server.

→ **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

Step 4: Confirm new Web server

Select a node for the Web server and select the Web server type

Select a node that corresponds to the Web server you want to add.

Select node

* Server name

* Type

Figure 103. Inputting server name

7. Click **Next** and then **Next**.

Use this page to create a new Web server.

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

Step 4: Confirm new Web server

Select a Web server template

Select the template that corresponds to the server that you want to create.

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

Previous Next Cancel

Figure 104. Selecting a web server template

8. Modify the HTTP server installation path and input username/password for IBM HTTP Server administration.

Use this page to create a new Web server.

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

Step 4: Confirm new Web server

Enter the properties for the new Web server

Enter the Web server properties.

* Port: 80

* Web server installation location: /opt/IBM/HTTPServer

* Plug-in installation location: /opt/IBM/HTTPServer/Plugins

Application mapping to the Web server: All

Enter the IBM Administration Server properties.

* Administration Server Port: 8008

* Username: ihsadmin

* Password: *****

* Confirm password: *****

Use SSL

Previous Next Cancel

Figure 105. Entering the properties for the new web server

9. Click **Next** and then **Finish**.



Figure 106. Confirming new web server

10. Click **Save**.



Figure 107. Saving the new web server

11. Synchronize all the nodes.

12. Start IBM HTTP Server and IBM HTTP Server administration.

```

/opt/IBM/HTTPServer/bin
# ./apachectl start
# ./adminctl start
./adminctl start: admin http started
#
    
```

Figure 108. Starting IBM HTTP Server and IBM HTTP Server administration

13. Select **Servers > Server Types > Web servers**.

___ 14. Select the check box for webserver1. Click **Generate Plug-in**.

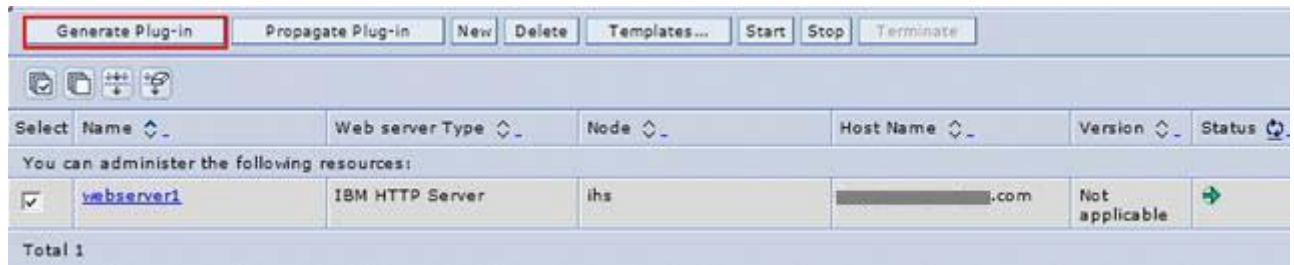


Figure 109. Generating a plug-in for the new web server

___ 15. Select the check box for your webserver1. Click **Propagate Plug-in**.



Figure 110. Propagating the plug-in for the new web server

___ 16. Restart IBM HTTP Server.

```
bash-3.2# cd /opt/IBM/HTTPServer/bin
bash-3.2# ./apachectl restart
```

Figure 111. Restarting IBM HTTP Server

Configuring IBM HTTP Server for SSL

1. Start iKeyman on IBM HTTP Server computer.

```
/opt/IBM/HTTPServer/bin  
bash-3.2# ./ikeyman
```

Figure 112. Starting the iKeyman on IBM HTTP Server computer

2. Create a key file. Click **New**. Select **CMS** for the Key database type. Enter a name and location for the new key file. Click **OK**.

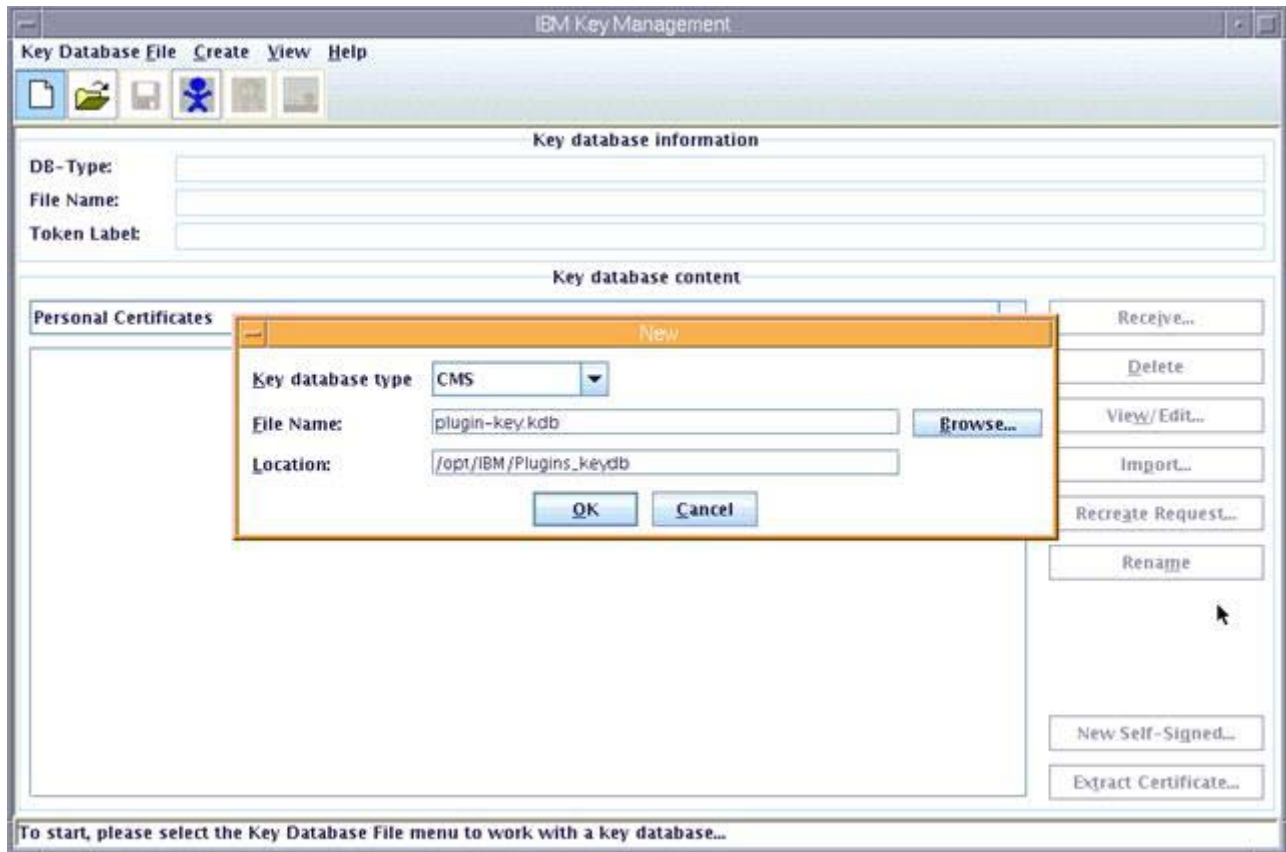


Figure 113. Creating a key file

- ___ 3. Enter your password in the Password Prompt dialog box, and confirm the password. The password is `WebAS`. Select **Stash the password to a file** and then click **OK**.

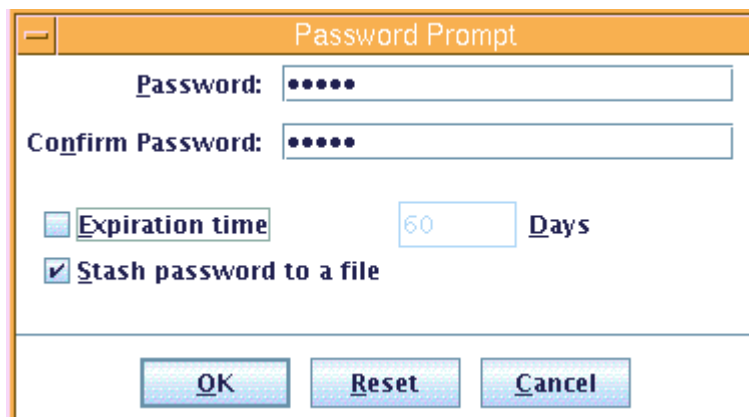


Figure 114. Password Prompt

- ___ 4. The new key database should display in the iKeyman utility with default signer certificates. Click **New Self-Signed...**

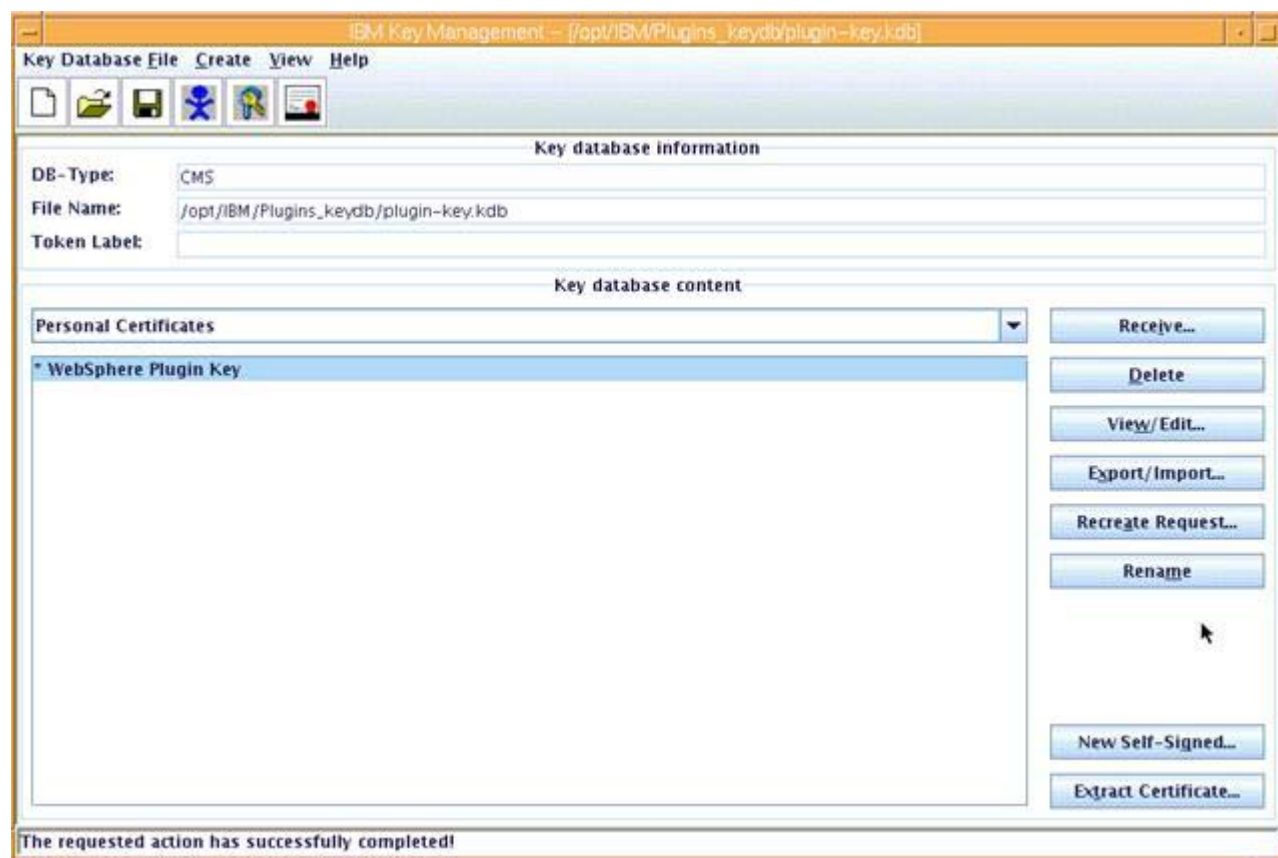


Figure 115. Key database

- ___ 5. Input a label name and set the validity period to be as long as you want but no longer than 9999 days. Click **OK**.

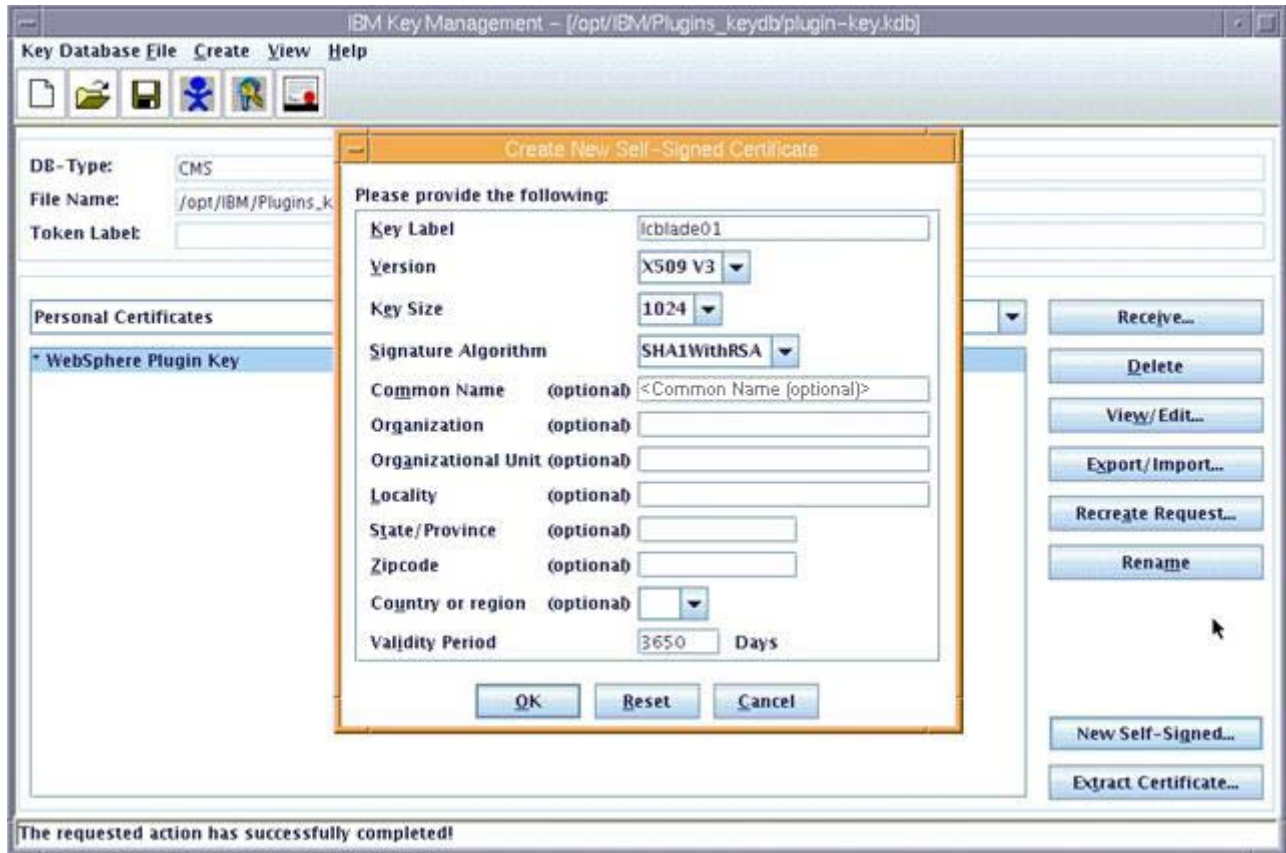


Figure 116. Creating New Self-Signed Certificate

- ___ 6. You can set this key to be default key by clicking **Yes**.

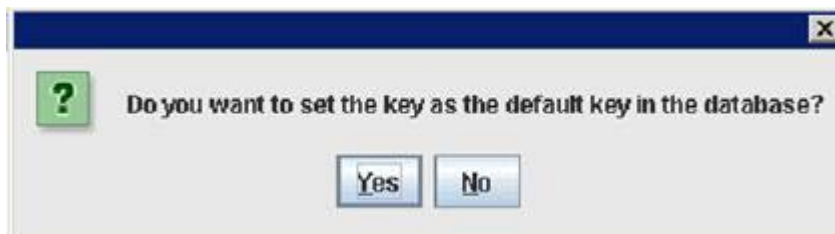


Figure 117. Setting the key as the default key

- ___ 7. Close iKeyman.
- ___ 8. Find the file httpd.conf under /opt/IBM/HTTPServer/conf, open it with your favorite text editor and at the end of the file, add the following lines:

```
LoadModule rewrite_module modules/mod_rewrite.so
LoadModule ibm_ssl_module modules/mod_ibm_ssl.so
<IfModule mod_ibm_ssl.c>
Listen 0.0.0.0:443
```

```
<VirtualHost *:443>
  ServerName lcblade01.cn.ibm.com
  #DocumentRoot /opt/IBM/HTTPServer/htdocs
  SSLEnable
</VirtualHost>
</IfModule>
SSLDisable
Keyfile /opt/IBM/Plugins_keydb/plugin-key.kdb
SSLStashFile /opt/IBM/Plugins_keydb/plugin-key.sth
```

___ 9. Restart HTTP server.

```
bash-3.2# cd /opt/IBM/HTTPServer/bin
bash-3.2# ./apachectl restart
```

Figure 118. Restarting HTTP server

___ 10. Verify you can access `https://<your IHS host>` and get IBM HTTP Server page successfully.

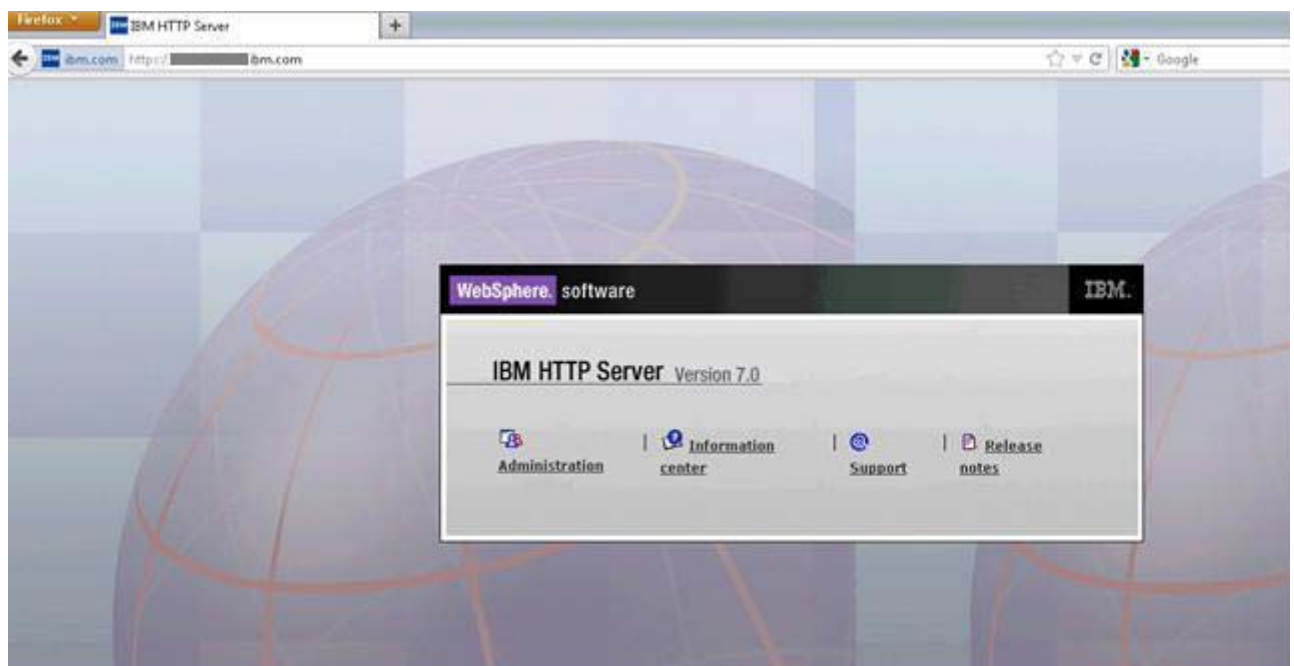


Figure 119. `https://<your IHS host>`

Adding certificates to the WebSphere truststore

1. Go to **Security > SSL certificate and key management > Key stores and certificates > CellDefaultTrustStore > Signer certificates**. Click **Retrieve from port**.

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

Manages signer certificates in key stores.

Preferences

Add Delete Extract Retrieve from port

Select	Alias	Issued to	Fingerprint (SHA Digest)	Expiration
You can administer the following resources:				
<input type="checkbox"/>	datapower	OU=Root CA, O="DataPower Technology, Inc.", C=US	A9:8A:A4:B5:BC:26:2F:5D:2A:80:93:CA:BA:F4:31:05:F2:54:14:17	Valid from Jun 12, 2003 to Jun 7, 2023.
<input type="checkbox"/>	root	CN=.....ibm.com, OU=Root Certificate, OU=icblade01Cell01, OU=icblade01CellManager01, O=IBM, C=US	95:BB:EC:B6:57:87:C9:0B:37:96:81:CF:1D:23:7C:39:24:94:D3:4A	Valid from Apr 12, 2012 to Apr 9, 2027.
Total 3				

Figure 120. Signer certificates

___ 2. Input host name and port number.

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 121. Inputting host name and port number

___ 3. Click **OK** and then **Save**.

Import WebSphere Application Server root certificate to HTTP server.

__ 1. Start iKeyman on IBM HTTP Server computer.

```
/opt/IBM/HTTPServer/bin
bash-3.2# ./ikeyman
```

Figure 122. Starting iKeyman on IBM HTTP Server computer

__ 2. Export Deployment Manager root certificate. Open `root-key.p12` under `/opt/IBM/WebSphere/AppServer/profiles/Dmgr01/config/cells/cell_name/nodes/DMmanager_name/`. Key database type is PKCS12. Click **OK**.

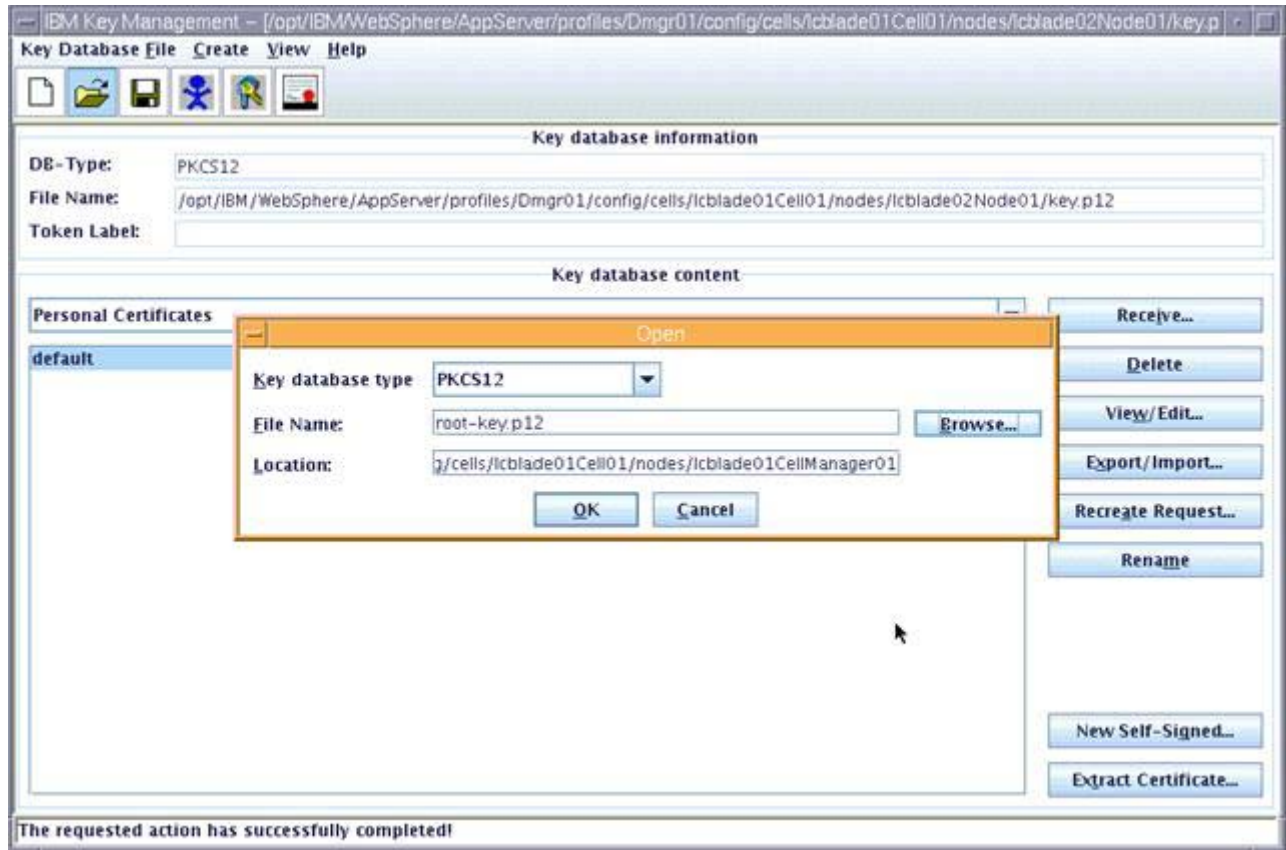


Figure 123. Export Deployment Manager root certificate

__ 3. Introduce the password when prompted.



Note

The password is `WebAS`.

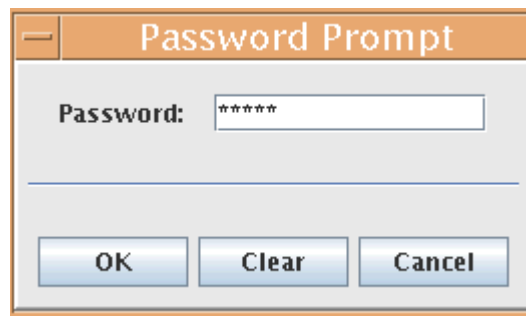


Figure 124. Password prompt

4. Click **Extract Certificate**. Enter a name and location for the new certification file. Click **OK**.

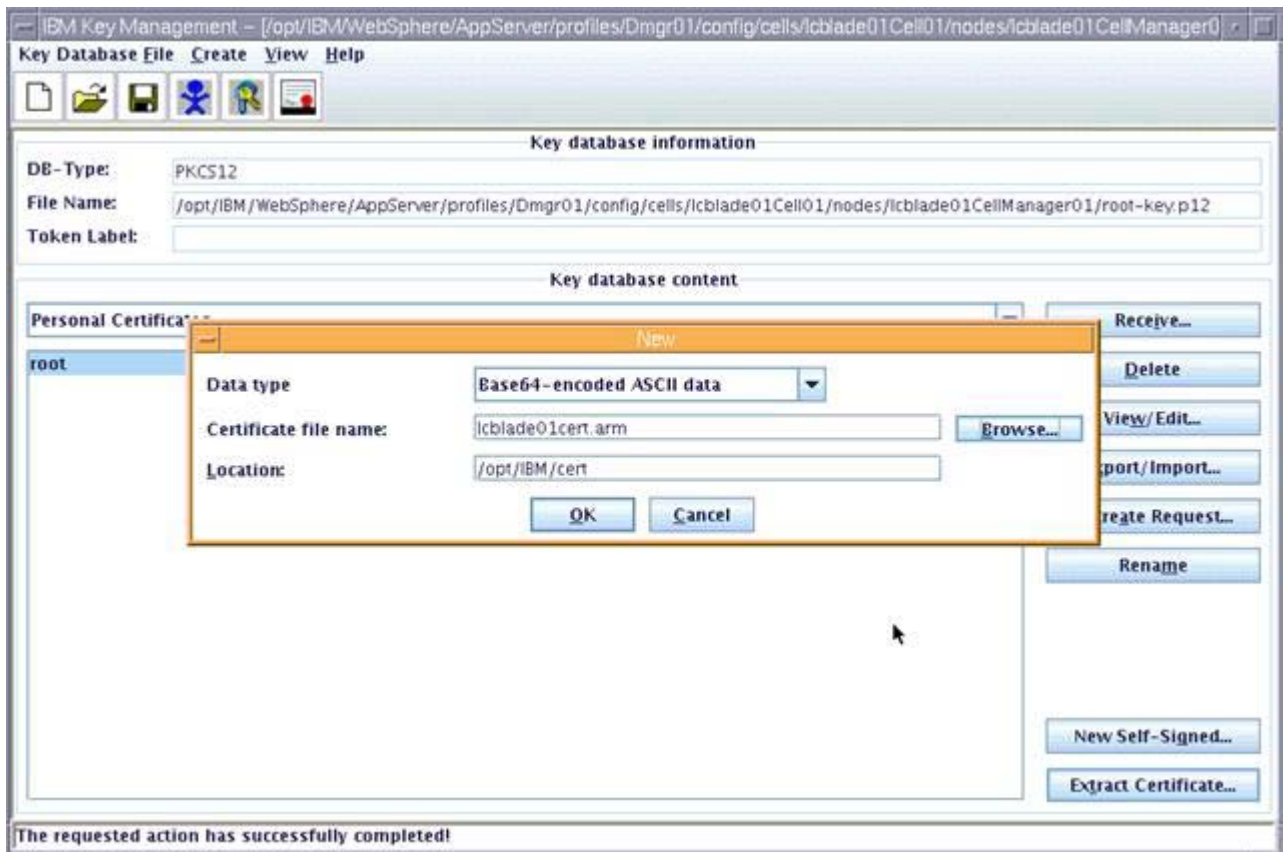


Figure 125. Extracting certificate

- 5. Export Node1 certificate. Open key.p12 under /opt/IBM/WebSphere/Appserver/profiles/Dmgr01/config/cells/cell_name/nodes/node1_name/. Key database type is PKCS12. Click **OK**.

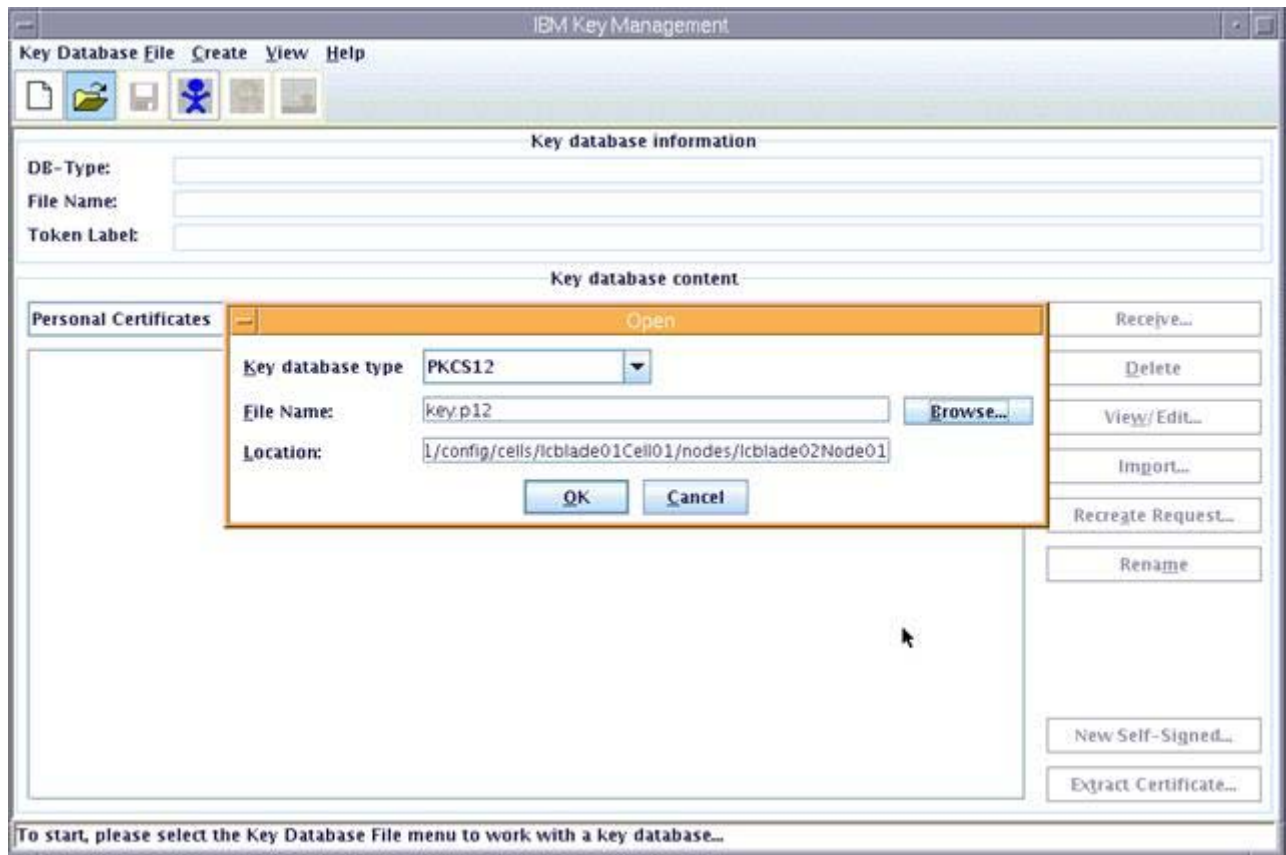


Figure 126. Exporting Node1 certificate

- 6. Introduce the password when prompted.



Note

The password is webAS.

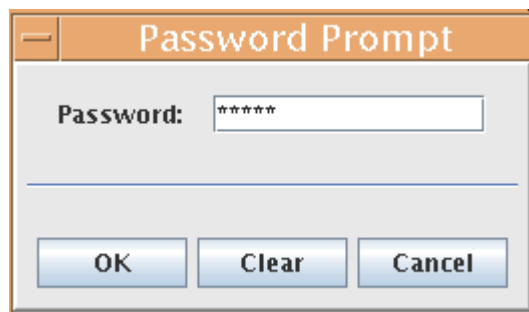


Figure 127. Password Prompt

7. Click **Extract Certificate**. Enter a name and location for the new certification file. Click **OK**.

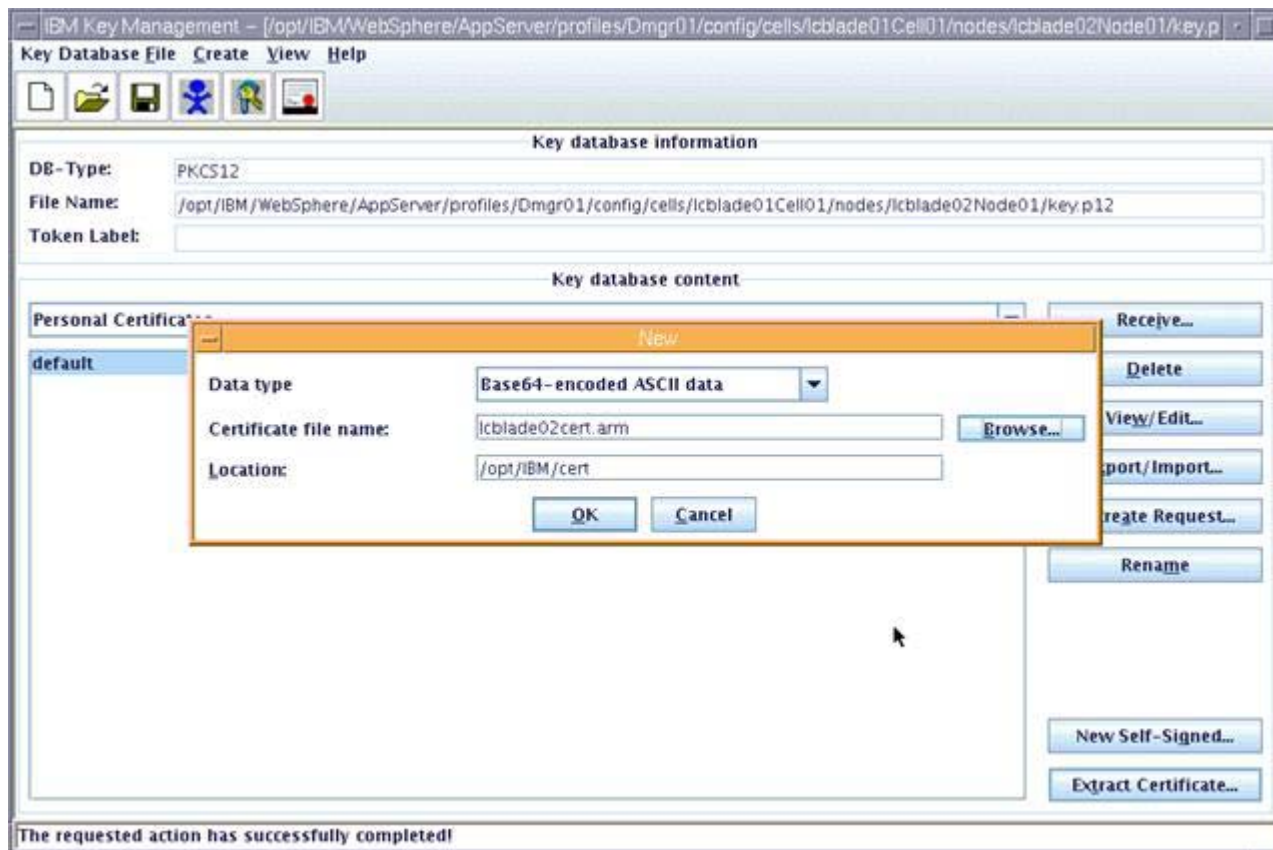


Figure 128. Extracting certificate

- 8. Export Node2 certificate. Open key.p12 under /opt/IBM/WebSphere/AppServer/profiles/Dmgr01/config/cells/lcblade01Cell01/nodes/lcblade03Node01/key.p12. Key database type is PKCS12.

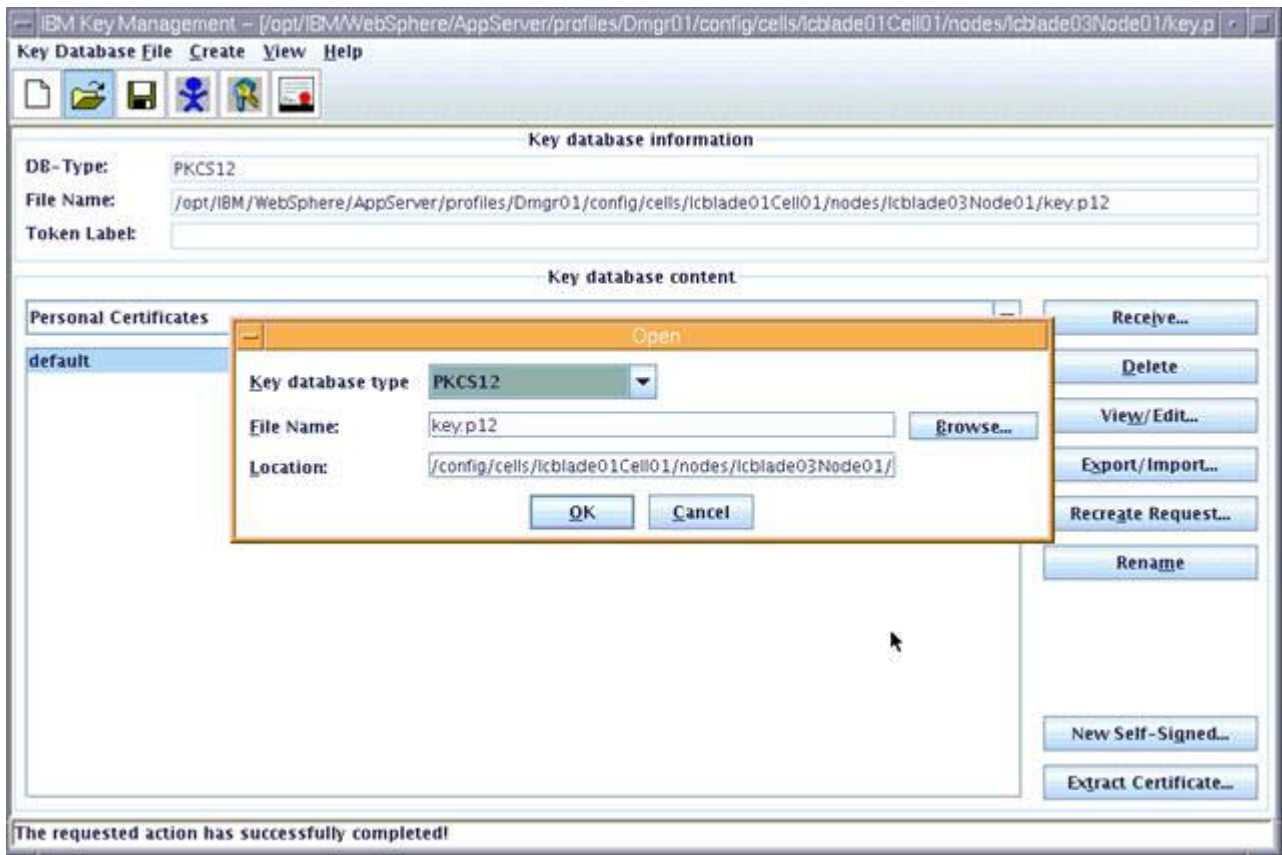


Figure 129. Exporting Node2 certificate

- 9. Introduce the password when prompted.



Note

The password is webAS.



Figure 130. Password Prompt

10. Click **Extract Certificate**. Enter a name and location for the new certification file. Click **OK**.

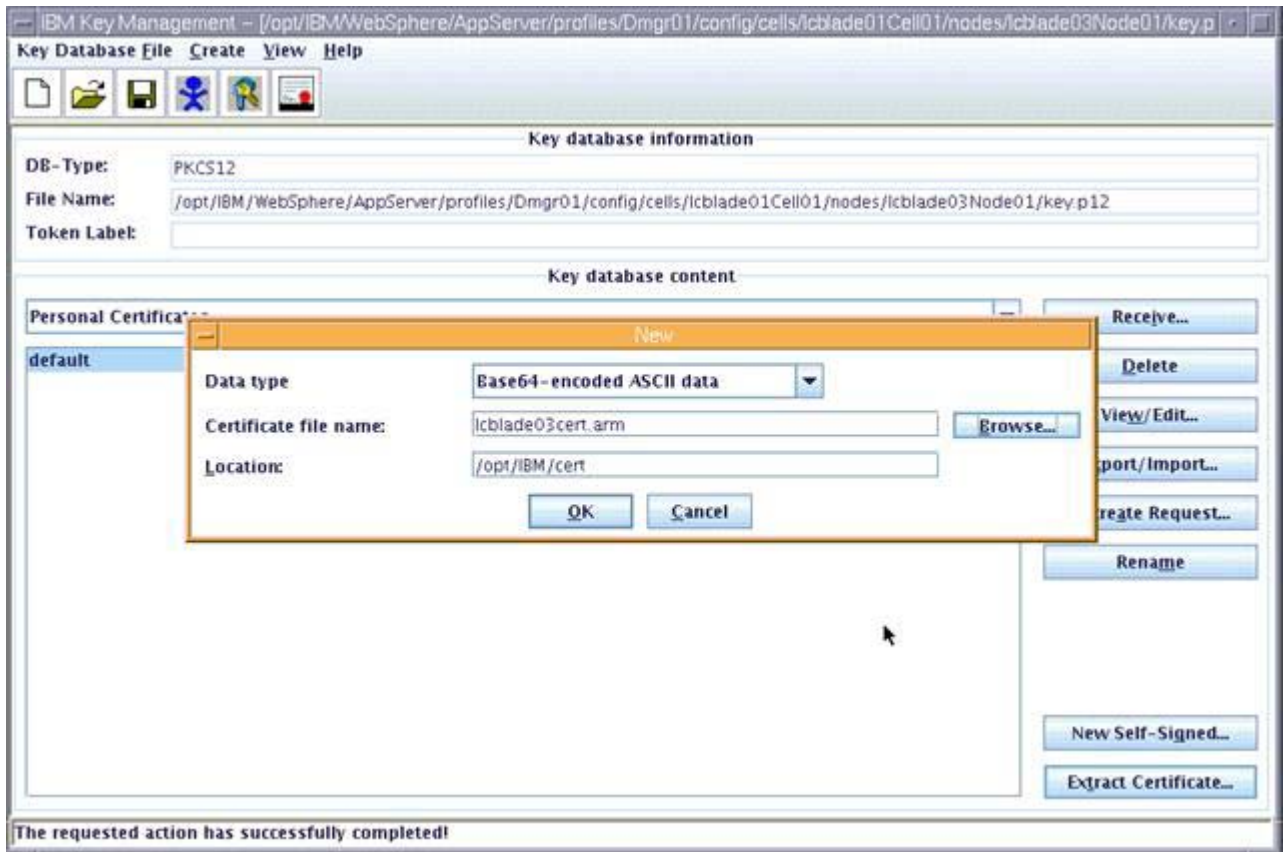


Figure 131. Extracting certificate

- ___ 11. Add WebSphere Application Server certificates to IBM HTTP Server Plug-in kdb. Open `plugin-key.kdb` under `/opt/IBM/Plugins_keydb/`. Click **OK**.

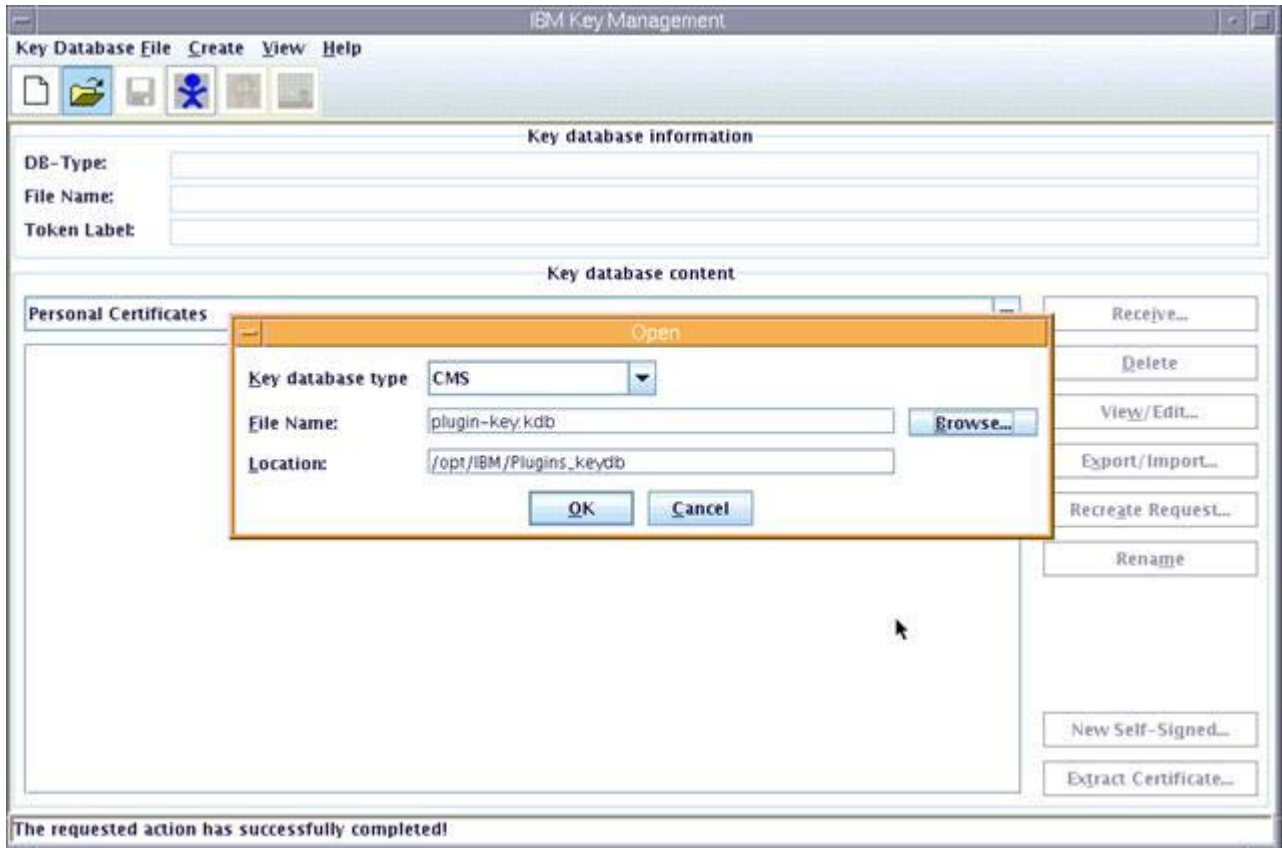


Figure 132. Adding WebSphere Application Server certificates to IBM HTTP Server Plug-in kdb

- ___ 12. Introduce the password when prompted.



Note

The password is `WebAS`.

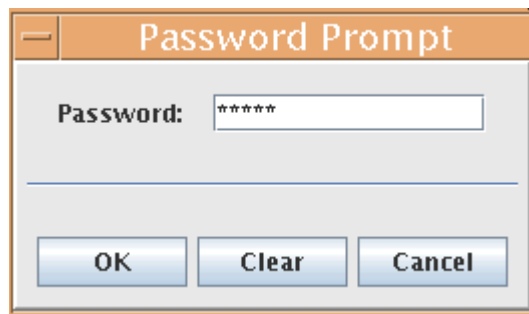


Figure 133. Password Prompt

13. Select **Signer Certificates**. Click **Add**. Open the Deployment Manager certificate. Click **OK**.

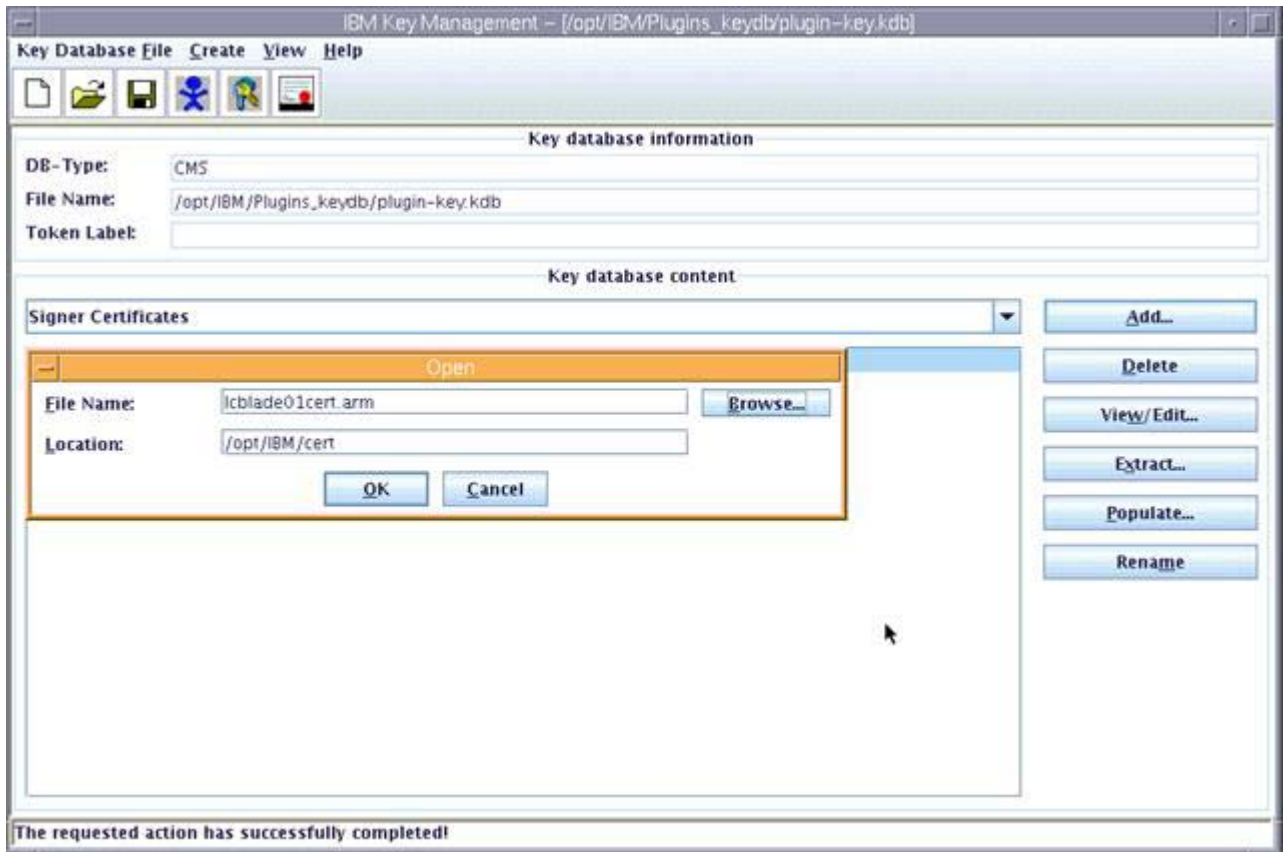


Figure 134. Signer certificates

14. Enter a label and click **OK**.

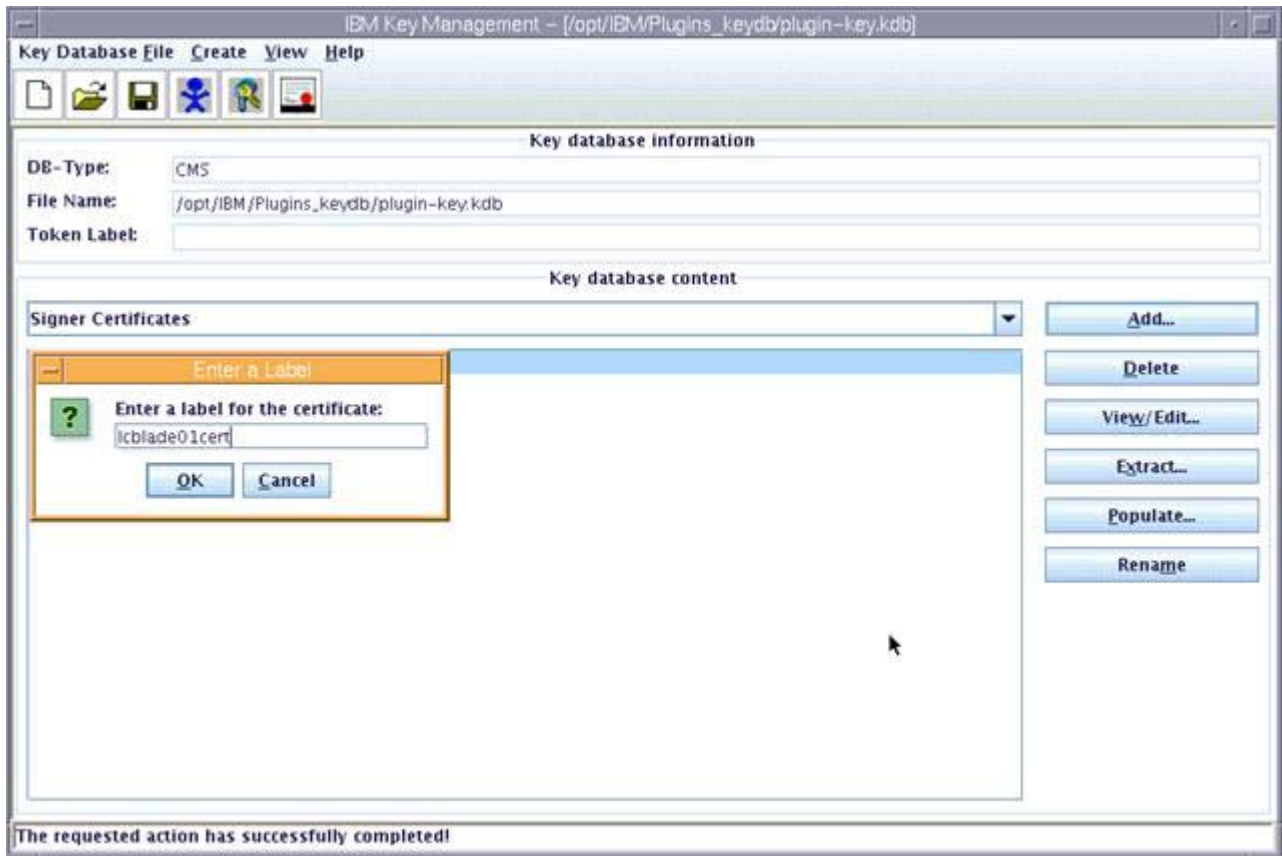


Figure 135. Entering a label for the certificate

- ___ 15. Add two nodes certificate by the same step. Then, the Signer Certificates list is as shown in the following figure.

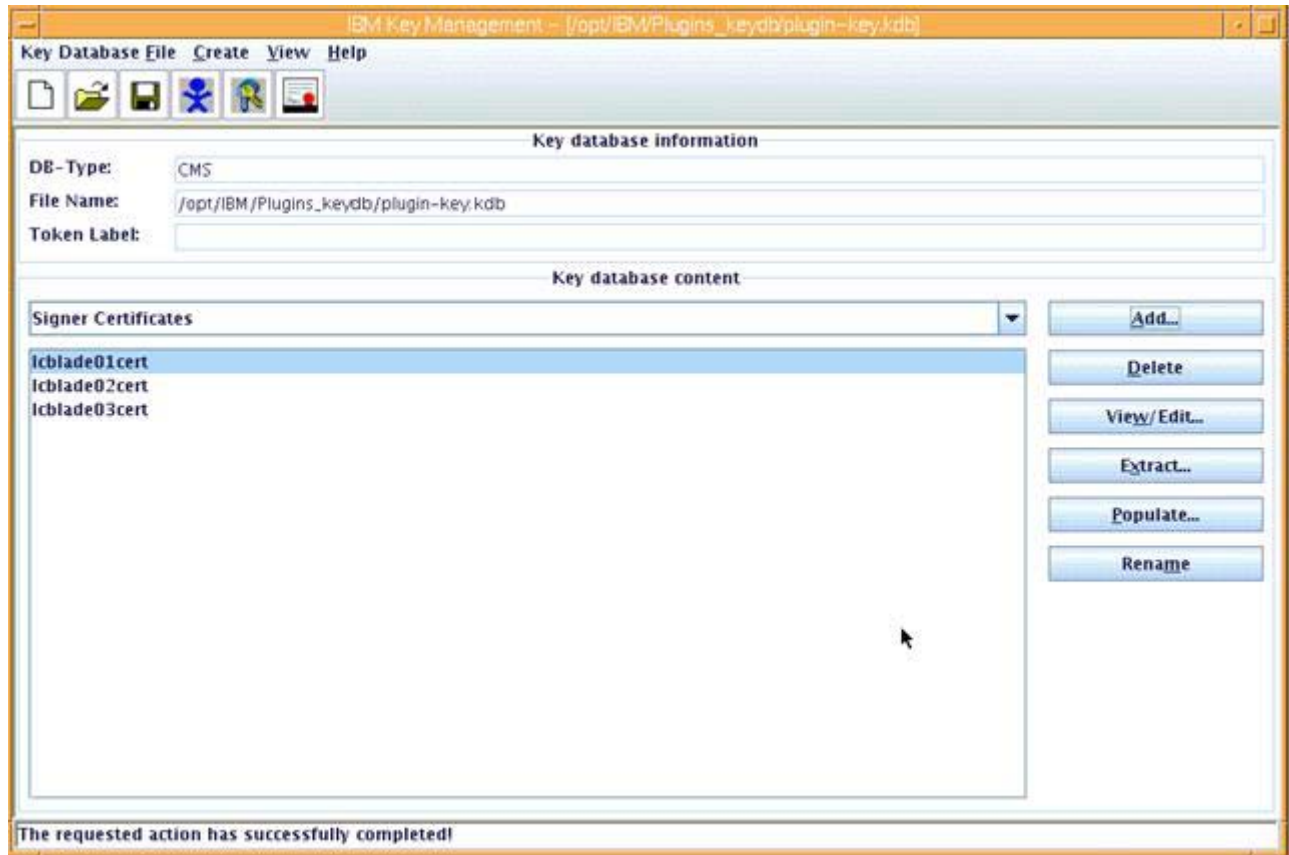


Figure 136. Adding two nodes certificate

- ___ 16. Restart IBM HTTP Server.

```
bash-3.2# cd /opt/IBM/HTTPServer/bin
bash-3.2# ./apachectl restart
```

Figure 137. Restarting IBM HTTP Server

Updating web addresses in IBM HTTP Server

___ 1. Open LotusConnections-config.xml under
/opt/IBM/WebSphere/AppServer/profiles/Dmgr01/config/cells/lcblade01Cell01/LotusConnections-config with your favorite text editor.

___ 2. Find each URL with a port number postfixed. Replace such URL with any port, for example:

```
<sloc:serviceReference acf_config_file="acf-config-nf.xml" bootstrapHost=""
bootstrapPort="" clusterName="LCCluster" enabled="true"
person_card_service_name_js_eval="generalrs.label_personcard_activitieslink"
person_card_service_url_pattern="/service/html/mainpage#dashboard%2Cmyactivities%2C
userid%3D{userid}%2Cname%3D{displayName}" serviceName="activities"
ssl_enabled="true">

  <sloc:href>

    <sloc:hrefPathPrefix>/activities</sloc:hrefPathPrefix>

    <sloc:static href="http://serverhost.ibm.com"
ssl_href="https://serverhost.ibm.com"/>

    <sloc:interService href="https://serverhost.ibm.com"/>

  </sloc:href>

</sloc:serviceReference>
```

___ 3. After the modification, make sure you cannot find any URL with port number for any Connections application in LotusConnections-config.xml file. The exception is for Other third-party URLs which are covered in a later section.

Creating initial server index

Configure Search variable

- ___ 1. Add `"/opt2/shared/LCShareData/search/stellent/dcs/oiexport"` to your PATH variable in `.profile` for the root user.
- ___ 2. Either add `export`
`LIBPATH=$LIBPATH:/opt2/shared/LCShareData/search/stellent/dcs/oiexport` to
`/opt/IBM/WebSphere/AppServer/bin/setupCmdLine.sh` and run `./setupCmdLine.sh`
before you start the nodes or add `export`
`LIBPATH=/opt2/shared/LCShareData/search/stellent/dcs/oiexport` and add the
line to the PATH in `.profile`.

Creating initial server index



Note

From Connections 4.0, administrator does not need additional actions to create initial server index. After you make sure that the search directory in shared folder is equally accessible to each server computer, and you have enough space in local folder, the search index building task starts automatically each 15 minutes. The initial index is completed on one node and is copied automatically to any other node to finish the whole initial index building task.

- ___ 1. To verify initial index, go to each local folder and find `INDEX.READY` file under `/opt2/LCLocalData/search/index`.

Configuring ReplyTo feature



Note

Assume that Domino mail server is installed successfully.

Create a ReplyTo user on Domino mail server

- ___ 1. Open Domino administration, connect to Domino mail server you plan to use.
- ___ 2. On People & Group view, click the **People** tab on the right panel.
- ___ 3. Click **Register**, input the certifier password for Domino server.

4. Check advanced box and input information as in the following figure:

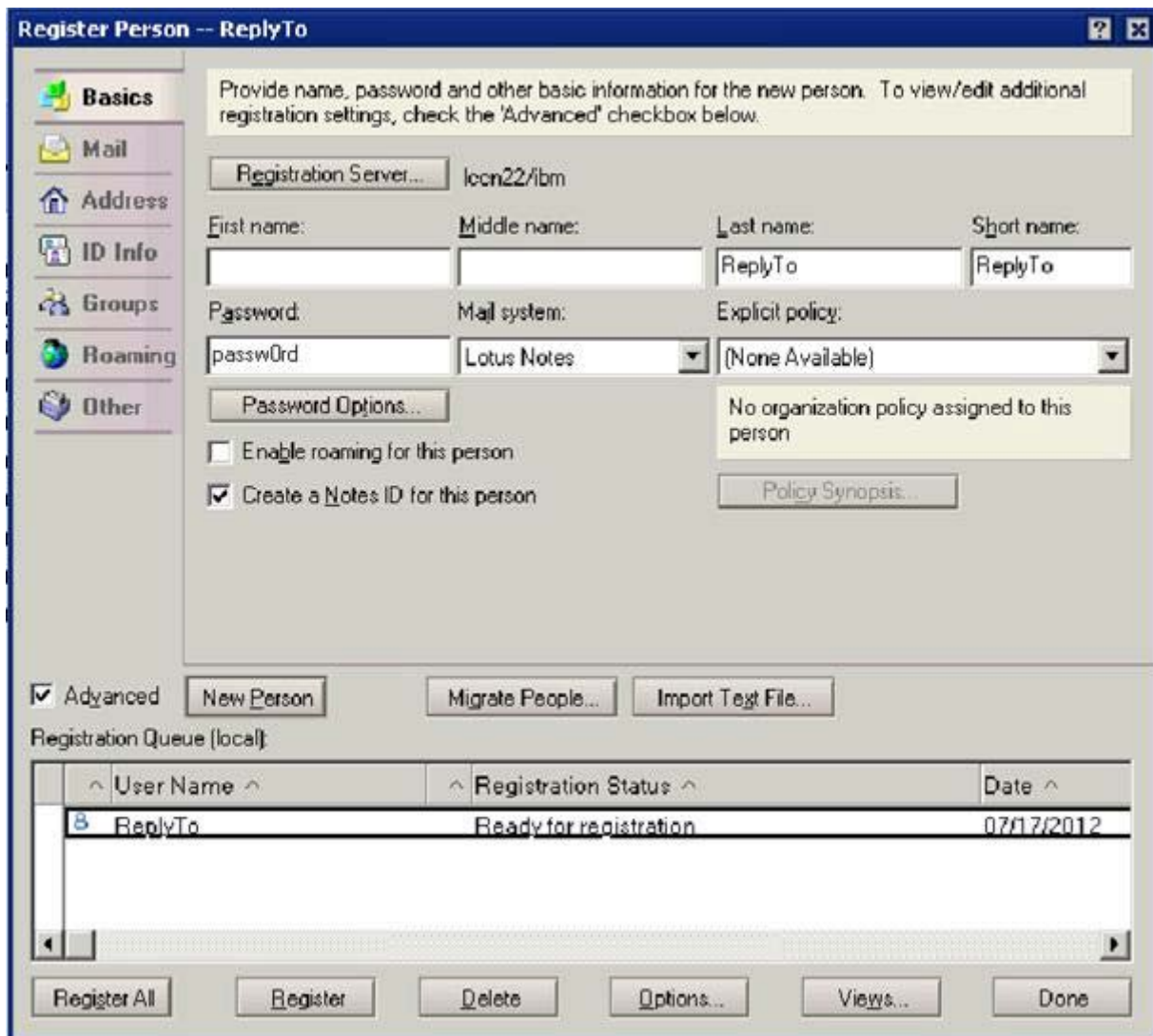


Figure 138. Register Person: ReplyTo

- ___ 5. The mail domain value can be set to the real domain you use.

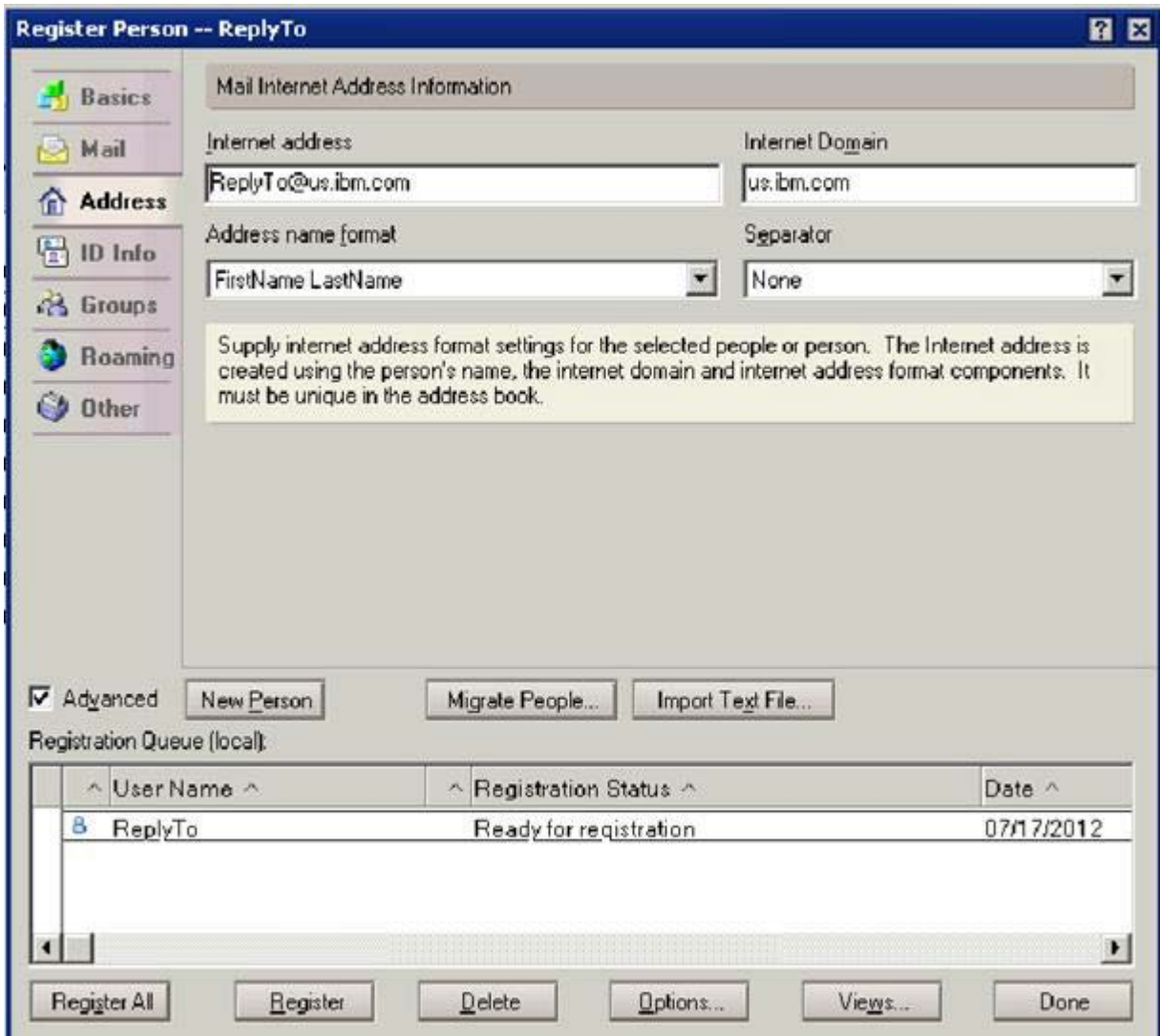


Figure 139. Register Person: ReplyTo: Mail domain value

- ___ 6. Click **Register** to complete the registration.

Configuring WebSphere Application Server for email notification replies

1. Open WebSphere Application Server console and go to **Resources > Mail > Mail Sessions**.

If you enabled mail-in during Connections installation, you see a mail session that is named lcreplyto. If not, select the cell scope and create a mail session as in the following figure:

The screenshot shows the 'General Properties' dialog box for a mail session. The fields are as follows:

- Scope:** cells:icblade01Cell01
- Provider:** Built-in Mail Provider
- Name:** lcreplyto
- JNDI name:** mail/replyto
- Description:** (Empty text area)
- Category:** (Empty text field)
- Enable debug mode
- Enable strict Internet address parsing

Figure 140. Resources > Mail > Mail Sessions: General Properties

The screenshot shows the 'Incoming Mail Properties' dialog box. The fields and controls are as follows:

- Server:** cn.ibm.com
- Protocol:** imap (dropdown menu)
- User:** ReplyTo
- Password:** (Masked with dots)
- Verify Password:** (Masked with dots)
- Buttons: Apply, OK, Reset, Cancel

Figure 141. Incoming Mail Properties

- __ 2. Click **OK** and **Save**.

Configuring Domino for email notification replies

- __ 1. Open Domino administration and click the **Configuration** tab.
 __ 2. Expand Messaging in the navigator, and then click **Configuration**.

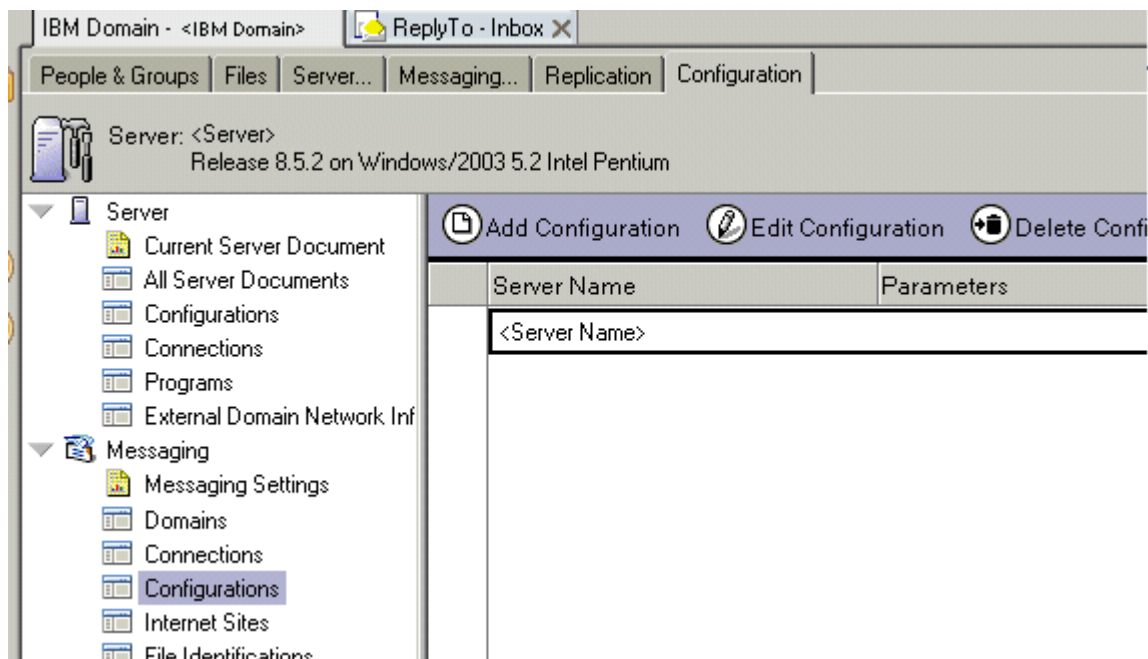


Figure 142. Domino administration: Configuration: Messaging navigator

- __ 3. Select the messaging server and click **Edit Configuration**.
 __ 4. Click the **Router/SMTP** tab, and then the **Restrictions** and **Controls** tab, and then the **Rules** tab.



Figure 143. Editing configuration

5. Click **New Rule** and create a rule that moves emails that contain `lcreplyto_` in the **To** field to the mailbox, for example:

This rule is: On Off

Specify Conditions

Create: Condition Exception

AND sender contains

When mail messages arrive that meet these conditions:

When:
To contains lcreplyto_

Specify Actions

journal this message

Perform the following actions:
move to Database mailreplyto.nsf

Buttons: Add, Remove, Remove All (for conditions); Add Action, Remove, Remove All (for actions); OK, Cancel

Figure 144. Creating a rule

6. Go back to **People & Groups** tab, expand **PeoplebyOrganization**. Edit the account of the user that is used to direct reply mail.

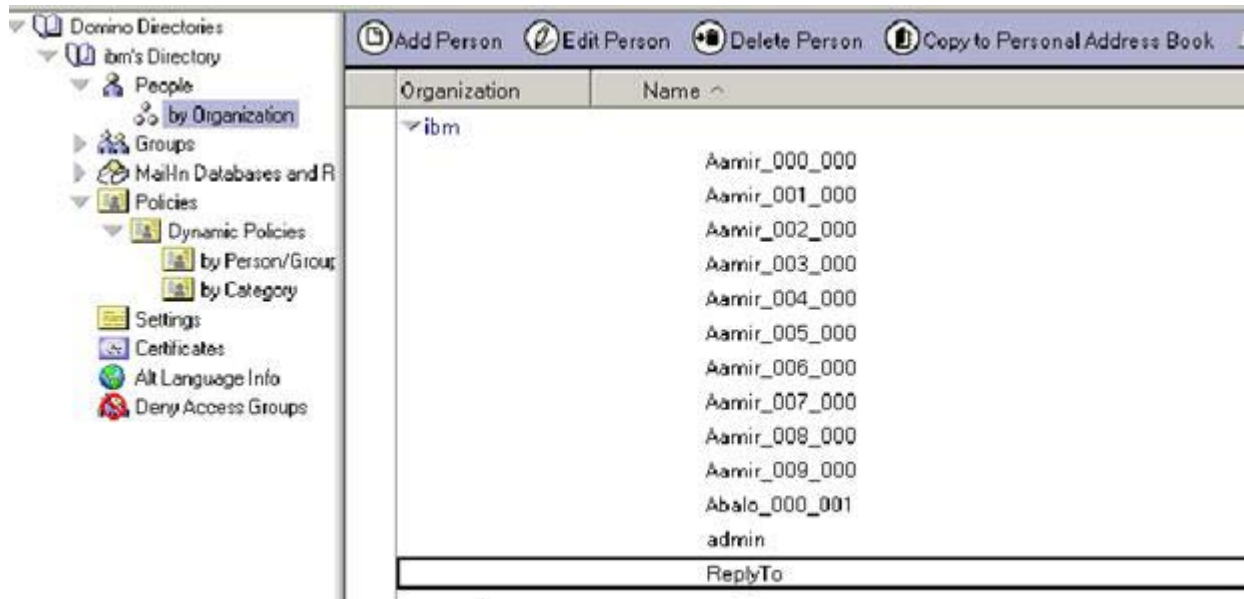


Figure 145. Editing the account of the user

7. Click **Open Mail File**. Select the **View > Agents** menu item.

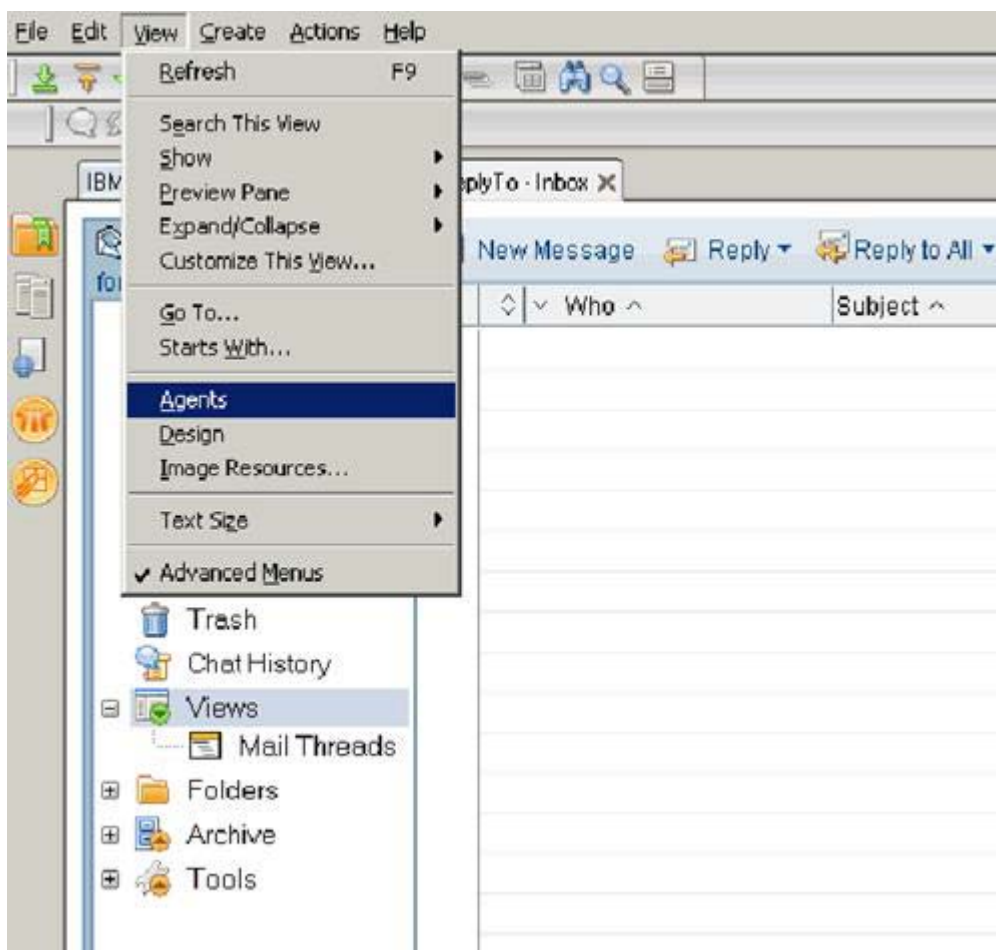


Figure 146. Selecting the View > Agents

___ 8. Click **New Agent**.

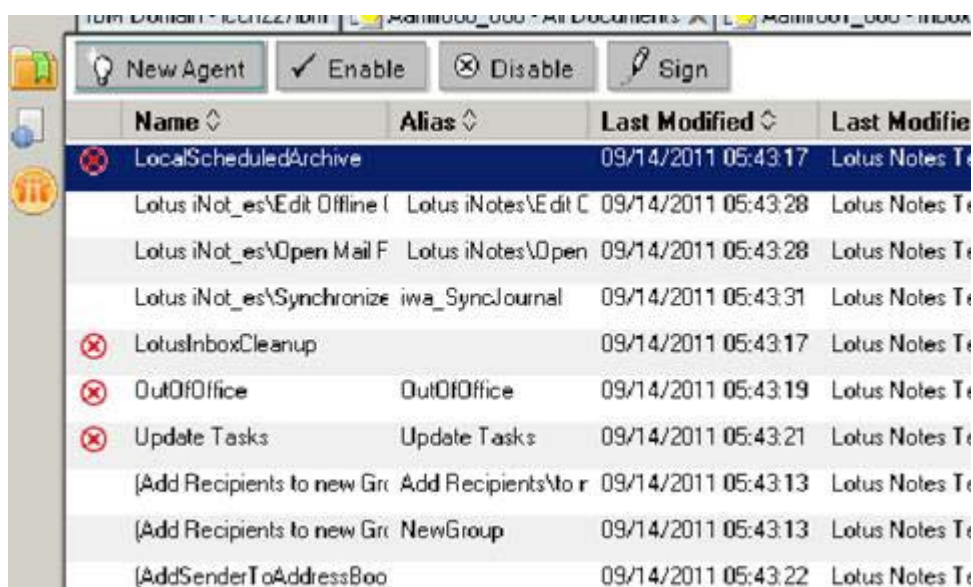


Figure 147. Select the View > Agents: New Agent

___ 9. Add the following LotusScript to the agent:

```
Sub Initialize
    Dim session As New NotesSession
    Dim db As NotesDatabase
    Dim view As NotesView
    Dim doc As NotesDocument

    Set db = session.CurrentDatabase
    Set view = db.getView("$Sent")

    Set doc = view.GetFirstDocument()
    While Not(doc Is Nothing)
        Call doc.PutInFolder("$inbox")
        Set doc = view.GetNextDocument(doc)
    Wend
End Sub
```

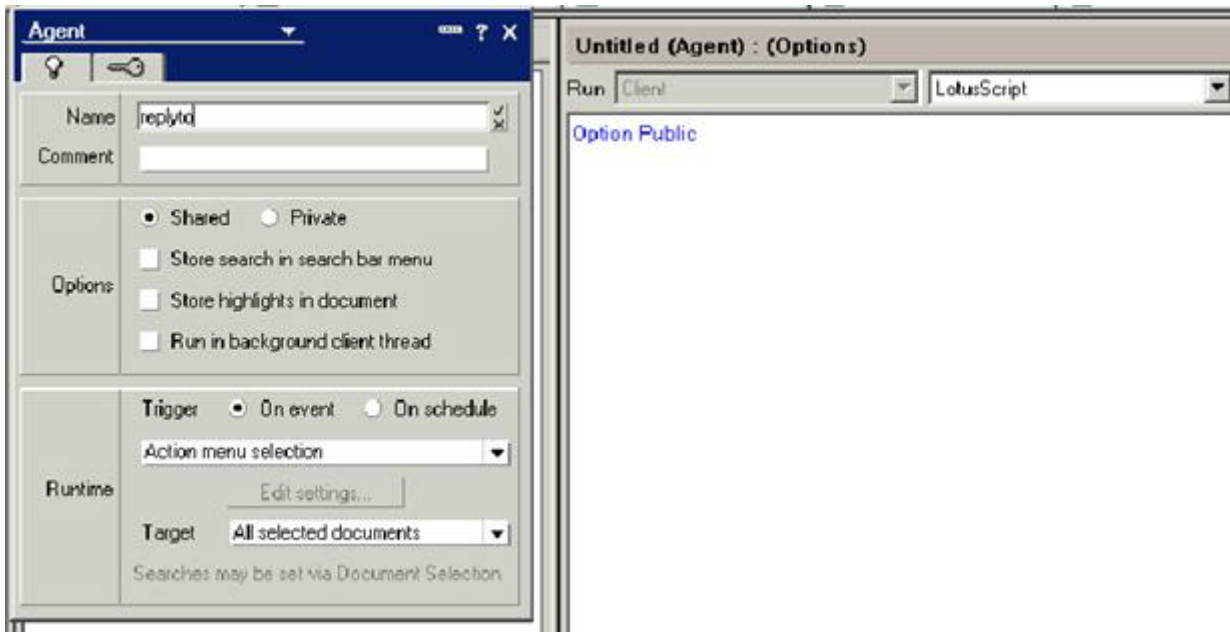


Figure 148. Adding the LotusScript

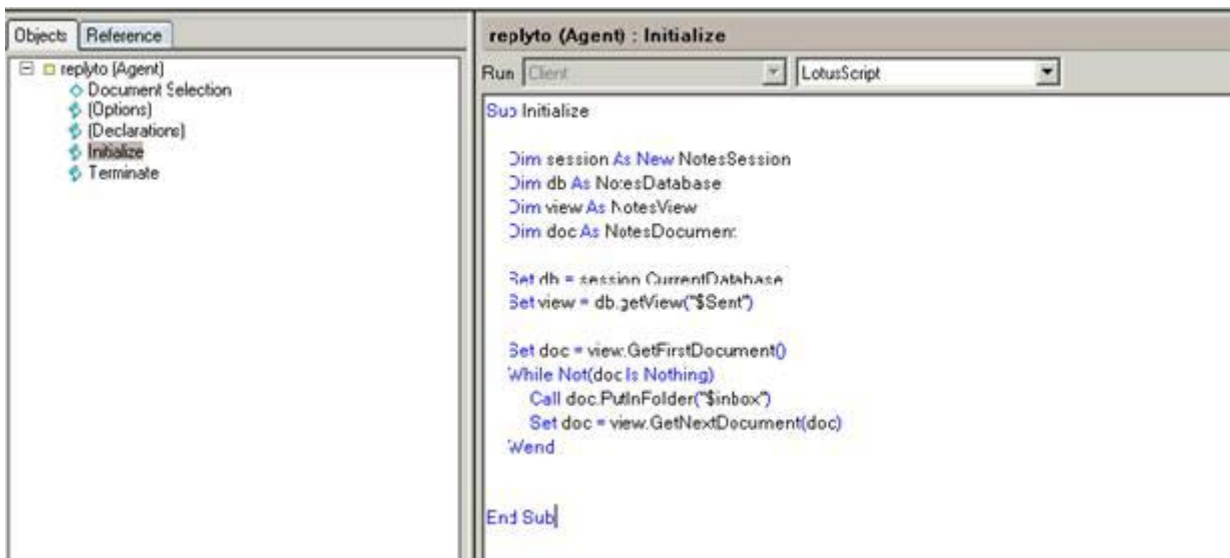


Figure 149. Ending Subinitialize

___ 10. Click **Yes** to save your changes.

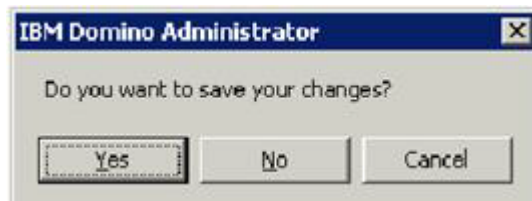


Figure 150. Saving changes to the agent

- ___ 11. Open the agent again to set properties:
- ___ a. In the Options section, select **Shared**.
 - ___ b. In the Runtime section, select **On schedule**, and then select **More than once a day**.
 - ___ c. In the Target field, select **All new & modified documents**.
 - ___ d. Set a schedule, for example have it run every 5 minutes, all day.

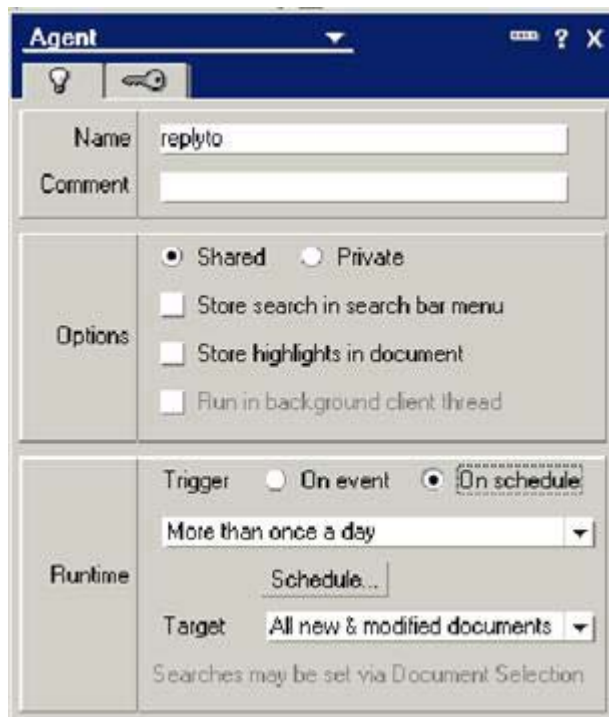


Figure 151. Setting the properties of the agent

- ___ 12. If you encounter the warning below, you must ensure that you have adequate permissions to run the agent:



Figure 152. Warning message

- ___ 13. To fix it, open the server configuration from **Configuration > Server > All server documents** and edit it.

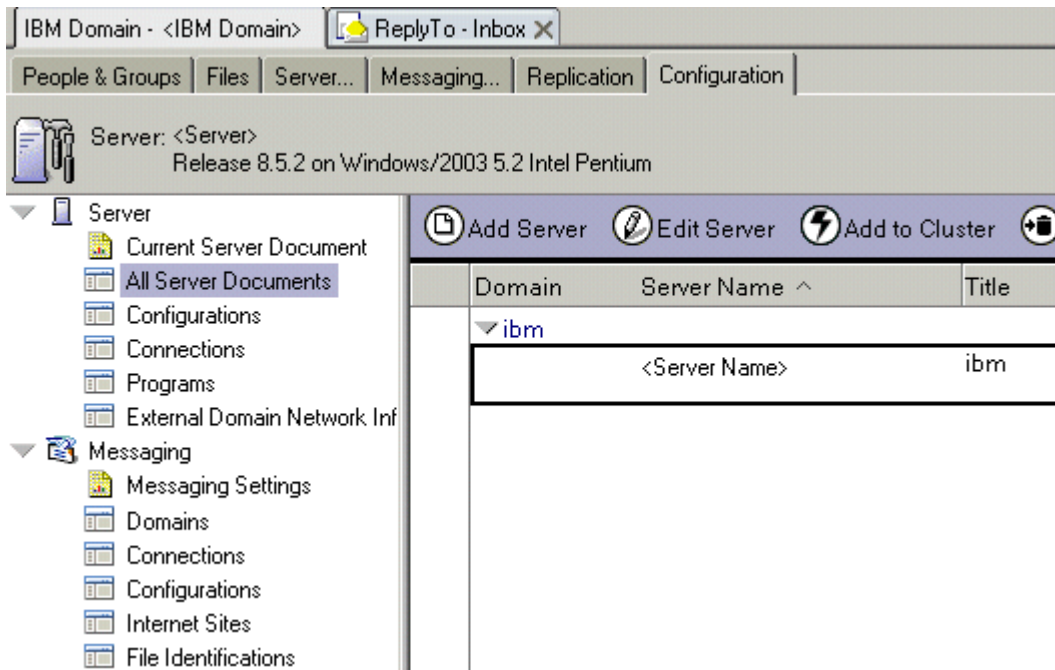


Figure 153. Fixing the privileges and permissions.

- ___ 14. On security tab, add administrator authorization for administration and mailserver/ibm as in the following figure:

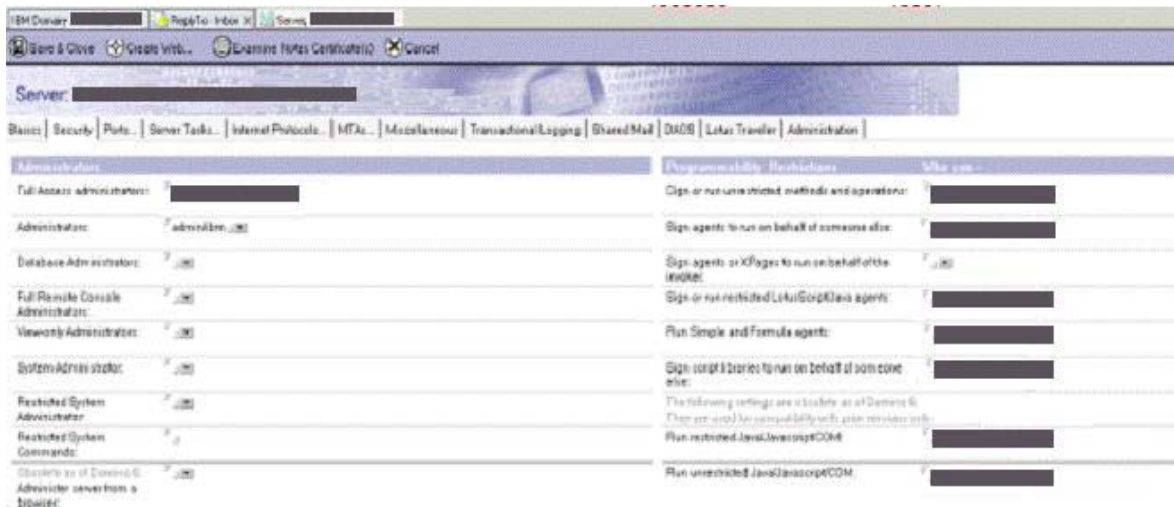


Figure 154. Adding administrator authorization for administration and mailserver/ibm

- ___ 15. **Save and Close.**

Enabling notification replies

__ 1. Open `news-config.xml` under
`/opt/IBM/WebSphere/AppServer/profiles/profile_name/config/cells/cell_name/LotusConnections-config/` with your favorite text editor.

__ 2. Set mail-in section as follows:

```
<mailin enabled="true">
<replyto enabled="true">
  <!-- A special ReplyTo address is added to notifications where
the user can reply to the notification to respond/comment.
The domain may be a dedicated domain for connections bound
mails. Or it could be existing domain, in which case a prefix
of suffix should be provided also. -->
  <replytoAddressFormat>
  <domain>us.ibm.com</domain>
  <!-- A prefix OR suffix (not both) may also be provided.
This is necessary if an existing domain (with other
email addresses) is being used.
There is a 28 character limit for the affix. -->
  <!--
  <affix type="suffix">_lcreplyto</affix>
  <affix type="prefix">lcreplyto_</affix>
  -->
  <affix type="prefix">lcreplyto_</affix>
  </replytoAddressFormat>
</replyto>
</mailin>
```

__ 3. Save it.

__ 4. Sync to nodes and restart servers.

Configuring a reverse caching proxy



Note

Assume that WebSphere edge proxy is installed successfully.

- ___ 1. Open the `ibmpoxy.conf` configuration file on Proxy server from `C:\Program Files\IBM\edge\cp\etc\en_US\` in a text editor. Make the following edits to the file:
 - ___ a. In the `SendRevProxyName` Directive section, add or enable the following rule:
`SendRevProxyName yes`
 - ___ b. In the `PureProxy` Directive section, add or enable the following rule:
`PureProxy off`
 - ___ c. In the `SSL Directives` section, add or enable the following rules:
`SSLEnable On`
`SSLCaching On`
 - ___ d. In the `Keyring` Directive section, add or enable the following rules:
`KeyRing C:\ProxyKey\proxykey.kdb`
`KeyRingStash C:\ProxyKey\proxykey.sth`
 - ___ e. In the `URL Rewriting rules` section, add the following reverse pass rules:
`ReversePass http://httpserver/* http://proxyserver/*`
`ReversePass https://httpserver/* https://proxyserver/*`
 - ___ f. Also, in the `Mapping Rules` section, add the following proxy rules:
`Proxy /* http://<httpserver>/* :80`
`Proxy /* https://<httpserver>/* :443`
 - ___ g. Set the `CacheTimeMargin` rule to zero seconds.
`CacheTimeMargin 0 seconds`
 - ___ h. Prevent the validation of a cache object from sending multiple requests for the same resource to the back-end server by setting the `KeepExpired` rule to on.
`KeepExpired On`
 - ___ i. In the `Method Directives` section, add the following methods:
`Enable CONNECT`
`Enable PUT`
`Enable DELETE`
 - ___ j. Add the following rule to the `CacheQueries` Directives section:


```
CacheQueries PUBLIC
```

- ___ k. Configure the proxy to allow large file uploads by editing and uncommenting the `LimitRequestBody` directive:

```
LimitRequestBody 10 M
```

- ___ l. Save and close the `ibmproxy.conf` file.

- ___ 2. Update the `dynamicHosts` attribute in the `LotusConnections-config.xml` file on Deployment Manager server

```
/opt/IBM/WebSphere/AppServer/profiles/profile_name/config/cells/cell_name/LotusConnections-config.xml.
```

```
<dynamicHosts enabled="true">
```

```
  <host href="http://proxy.example.com"
```

```
    ssl_href="https://proxy.example.com"/>
```

```
</dynamicHosts>
```

- ___ 3. Using iKeyman, extract certificates from IBM Connections and add them to the proxy server key database.

- ___ a. Start iKeyman on the IBM HTTP Server computer:



```
/opt/IBM/HTTPServer/bin  
bash-3.2# ./ikeyman
```

Figure 155. Starting iKeyman

__ b. Open plugin-key.kdb under /opt/IBM/Plugins_keydb/.

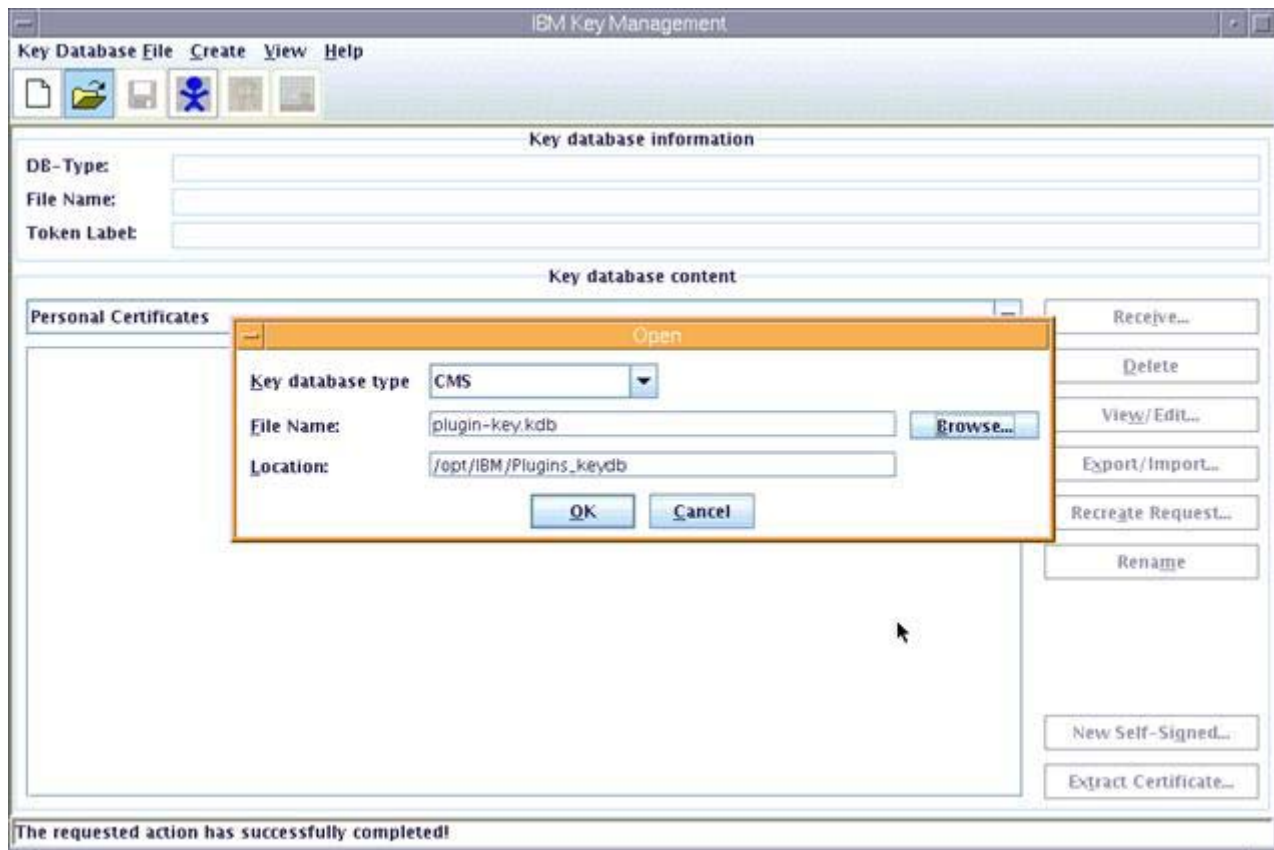


Figure 156. IBM Key Management

__ 4. Introduce the password when prompted.



Note

The password is webAS.



Figure 157. Password Prompt

5. Click **Extract Certificate**. Enter a name and location for the new certification file. Click **OK**.

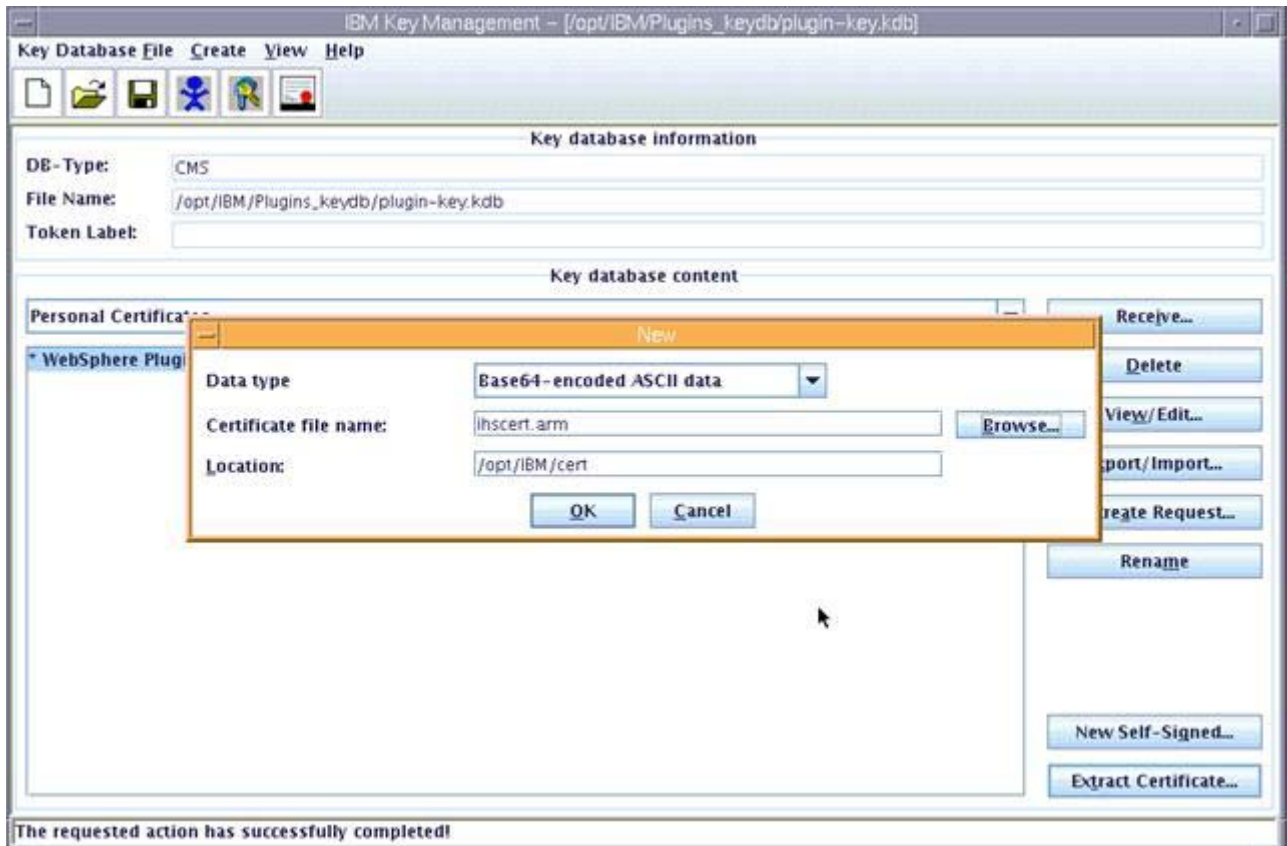


Figure 158. Extracting certificate

6. Add the certificate `ihscert.arm` that you extracted from IBM Connections.
7. Copy the Proxy `kdb` file from Proxy computer `C:\ProxyKey\proxykey.kdb` to IBM HTTP Server server.

8. Open the Proxy kdb file proxykey.kdb by using the iKeyman.



Figure 159. Opening kdb file with IBM Key Management

9. Introduce the password when prompted.



Note

The password is WebAS.



Figure 160. Password Prompt

10. Select **Signer Certificates**.

11. Click **Add**.

12. Open the IBM HTTP Server certificate.

13. Click **OK**.

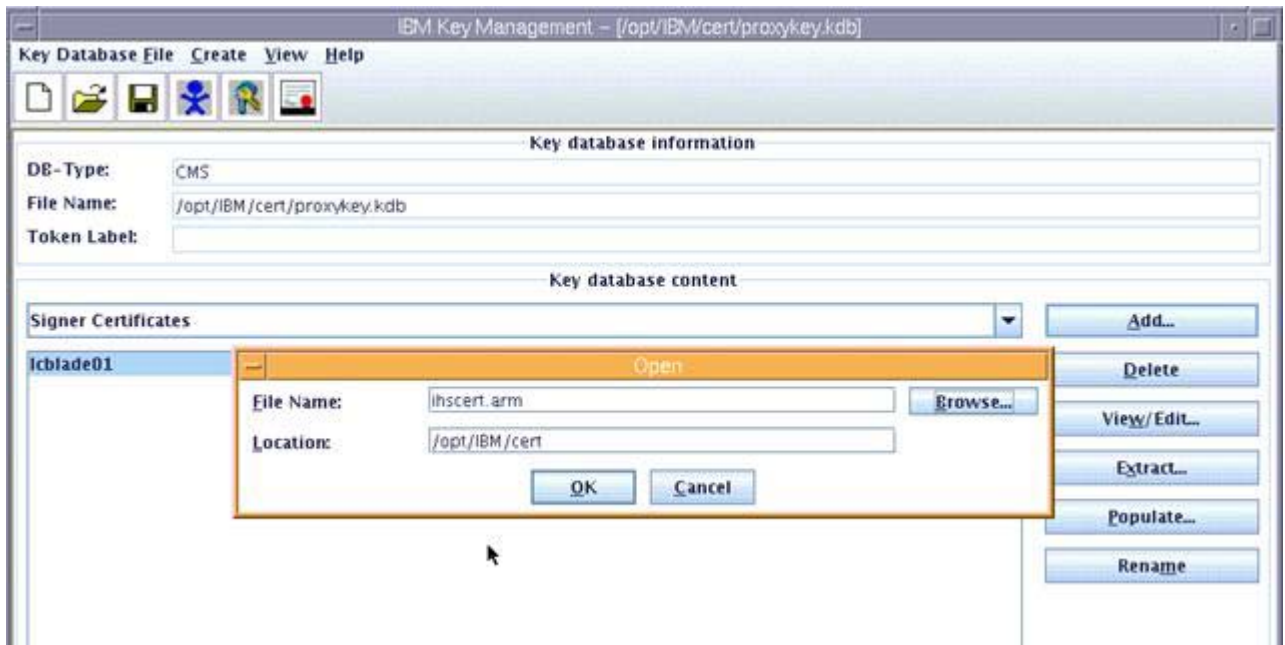


Figure 161. Opening the certificate with the IBM Key Management

14. Enter a label.

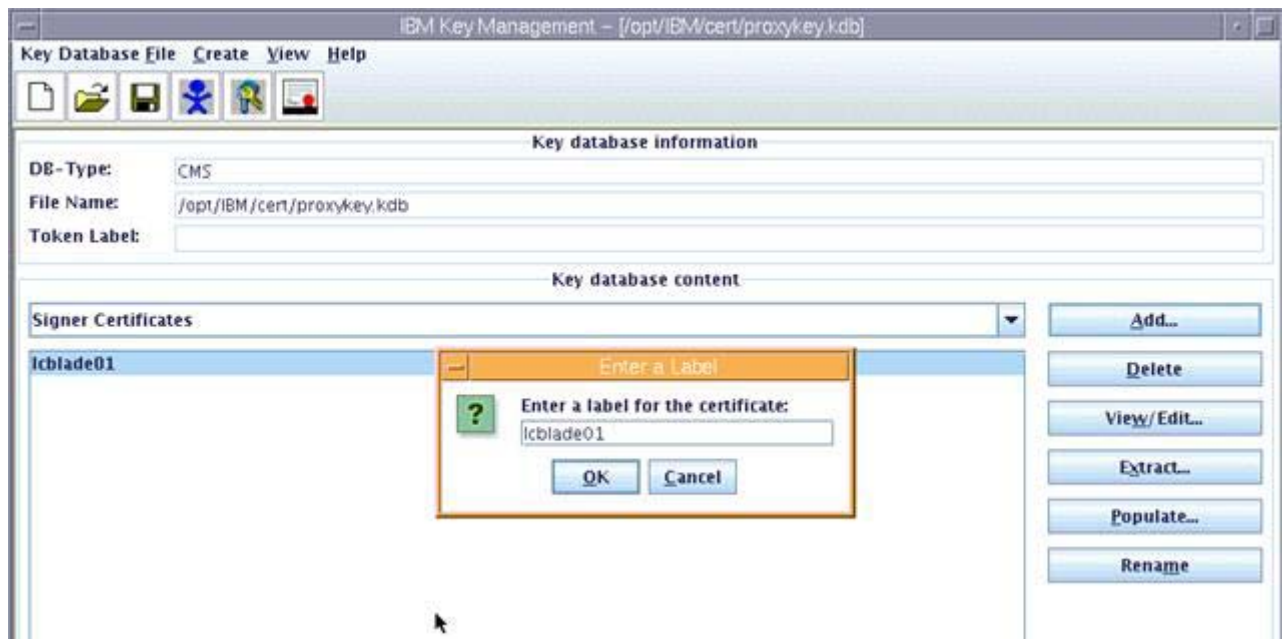


Figure 162. Entering a label for the certificate

15. Copy the Proxy kdb file from IBM HTTP Server server back to the Proxy computer
C:\ProxyKey\proxykey.kdb.

Restart the Proxy Edge server in Windows service



The screenshot shows the Windows Services console with three services listed. The 'IBM Caching Proxy' service is selected and highlighted in blue. The 'IBM Cisco Controller' service is also visible below it.

Service Name	Service Name	Status	Startup Type	Log On As
Human Interface Device Access	Enables ge...	Disabled		Local System
IBM Caching Proxy	IBM Cachin...	Started	Automatic	Local System
IBM Cisco Controller		Manual		Local System

Figure 163. Restarting the Proxy Edge server

After finishing all post installation steps, you will be able to use Connections 4.0 freely with HTTPS enabled.

