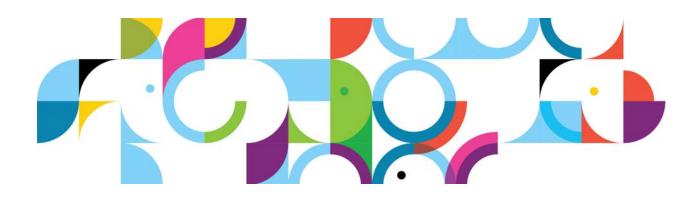
	• • • • •

IBM Connections 4 Public Deployment Scenarios

Deployment Scenarios ERC 1.0



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

# About the author

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

# Contents

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

# 1. Topology

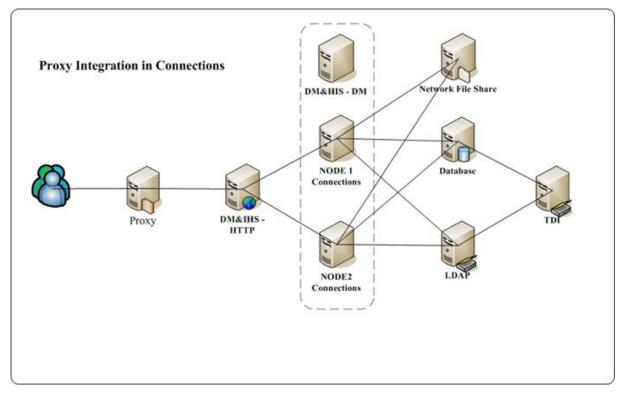


Figure 1. Topology: Proxy Integration in Connections

# 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



#### 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.

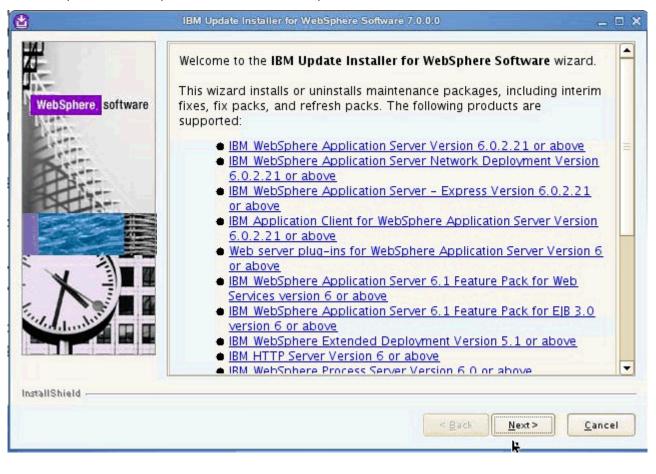


Figure 2. IBM Update Installer for WebSphere Software wizard: Welcome screen

\_\_\_\_2. Enter the installation location for the product you want to install and click **Next**.

Ĕ	Product Selection	
WebSphere, software	Enter the installation location of the product that you want to update.	
Mar.	You can select a different directory from the drop-down list, specify a different directory click <b>Browse</b> to select a directory.	tory, or
and the second s	Directory path:	
Part	/opt/IBM/WebSphere/AppServer	
		Browse.
HALLAN		
X		
addundt's I		
tallShield		

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**.

₫	IBM Update Installer for WebSphere Software 7.0.0.0 👝 🗖	×
WebSphere software	Maintenance Operation Selection         Install maintenance package.         Uninstall maintenance package.	]
InstallShield	< Back Next Cancel	

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

\_\_\_\_4. Select the package directory and click **Next**.

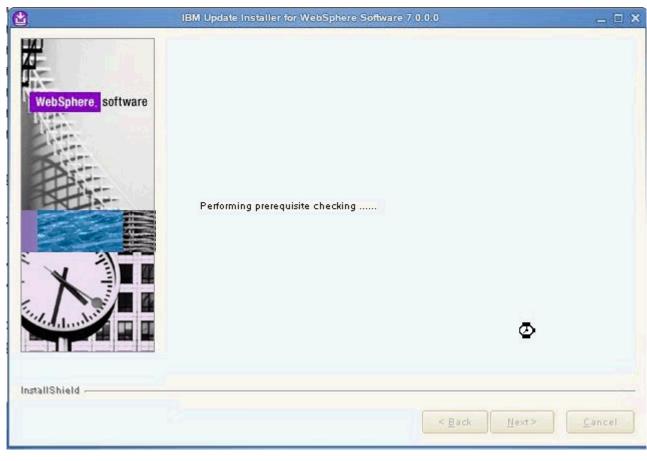
WebSphere, software	Maintenance Package Directory Selection Enter directory to list maintenance packages available for installation directory or click Browse to select a path to maintenance package.	
June -	Directory path: /opt/IBM/WebSphere/UpdateInstaller/maintenance	
Part	/op/non/webspire/c/opdatemstater/maintenance	B <u>r</u> owse.
	The latest maintenance packages are available online. packages for WebSphere Application Server and all We Server Feature Packs either by visiting the <u>Recommend</u> <u>WebSphere Application Server</u> webpage for a complete <u>WebSphere Maintenance Download wizard</u> to find spec	bSphere Application led fixes for e list or by using the
	packages. Additional information can be found online at the <u>WebS</u> <u>Server library</u> or <u>WebSphere Application Server informa</u> webpages.	

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

\_\_\_5. Select the packages to install and click Next.

WebSphere, software	Available Maintenance Package to Install         Select maintenance packages to install:         Select Recommended Updates         Deselect All Updates         7.0.0.21-WS-WAS-IFPM65486.pak         7.0.0.21-WS-WAS-IFPM56596.pak         7.0.0.19-WS-WAS-IFPM53930.pak
	<ul> <li>7.0.0.1-ws-was-ifpm60895.pak</li> <li>Each package selection might restrict remaining packages available for further selection.</li> <li>Multiple selections can be made for different products.</li> <li>Click Next to continue</li> </ul>
nstallShield -	< Back Next> Cancel

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**.

4	Installation Summary
WebSphere. software	Review the summary for correctness. Click <b>Back</b> to change values on previous panels. Click Next to perform the installation.
A Land	Verify my permissions to perform the installation.
Kin	The following maintenance packages will be installed:
	<ul> <li>7.0.0.21-WS-WAS-IFPM56596 - MESSAGES BUILD UP ON PUBLICATION POINT AND DO NOT FLOW TO SUBSCRIBER MESSAGING ENGINE</li> <li>7.0.0.1-WS-WAS-IFPM60895 - Messages not being processed in order would lead to piling up in case of consumer being non local to destination (Repackaged PM51310)</li> <li>7.0.0.21-WS-WAS-IFPM65486 - ADD OAUTH20 SUPPORT TO WEBSPHERE APPLICATION SERVER</li> <li>7.0.0.19-WS-WAS-IFPM53930 - Hash Table implementation vulnerability</li> </ul>
	to the following location:
InstallShield	
	< Back Next> Cancel

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

The installation starts.

1	IBM Update Installer for WebSphere Software 7.0.0.0 🔤 🗖	×
	Installing component sib.output.base	
WebSphere, software	100%	
	٢	
InstallShield -	S.Back Mext>	]

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

\_\_\_7. The installation completes. Click Finish.

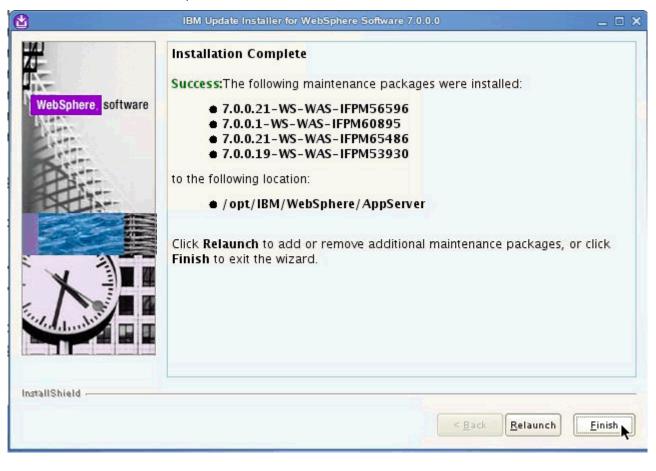


Figure 10. IBM Update Installer for WebSphere Software wizard: Installation completion screen

### Install IBM HTTP Server

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

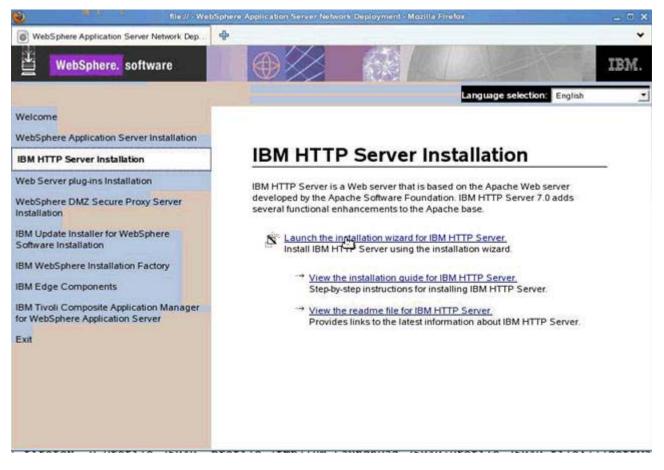


Figure 11. WebSphere Application Server Network Deployment

\_\_\_\_2. The installation wizard for IBM HTTP Server 7.0 opens. Click **Next**.

8	IBM HTTP Server 7.0	_ 🗆 🗙
	Welcome to IBM HTTP Server 7.0	
WebSphere, software	This wizard installs IBM HTTP Server 7.0 on your computer. See the <u>IBM HTTP Server 7.0 Installation Guide</u> to learn more about this installation.	
	Click Next to continue.	
M		
InstallShield		
	< Back Next Can	cel

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

\_\_\_\_3. Accept both the IBM and the non-IBM terms and click **Next**.

8	JBM HTTP Server 7.0	_ 🗆 🗙
<b>#</b>	Software License Agreement	
<b>H</b> -	Please read the following license agreement carefully.	
ATT INTERNAL	International Program License Agreement	
WebSphere, software	Part 1 – General Terms	=
	BY DOWNLOADING, INSTALLING, COPYING, ACCESSING, OR USING THE PROGRAM YOU AGREE TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF ANOTHER PERSON OR A COMP OR OTHER LEGAL ENTITY, YOU REPRESENT AND WARRANT THAT YOU H FULL AUTHORITY TO BIND THAT PERSON, COMPANY, OR LEGAL ENTITY THESE TERMS. IF YOU DO NOT AGREE TO THESE TERMS, - DO NOT DOWNLOAD, INSTALL, COPY, ACCESS, OR USE THE PROGRAM;	PANY IAVE TO
	Read non-IBM terms	
Sel	I accept both the IBM and the non-IBM terms	
	$\odot$ I do not accept the terms in the license agreement	
	Print	
InstallShield		
	< <u>Back Next</u> <u>C</u> an	cel

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

\_\_\_\_4. The prerequisites are checked. Click **Next** if passed.

"	IBM HTTP Server 7.0	_ 🗆 🗙
WebSphere software	System Prerequisites Check         Passed: Your operating system completed the prerequisites check successfully.         Your operating system meets or exceeds the requirements for this processe the WebSphere Application Server detailed system requirements. We pages for more information about supported operating systems. Go to product support Web pages to obtain the latest maintenance packages apply after installation.         Click Next to continue the installation.	eb the
InstallShield		
	<u> Rack Next &gt; C</u> an	cel

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

\_\_\_\_5. Select the product installation location and click **Next**.

`₩	IBM HTTP Server 7.0	_ = ×
	Enter the installation location	
WebSphere software	/opt/IBM/HTTPServer	B <u>r</u> owse
InstallShield	< <u>B</u> ack Next >	<u>C</u> ancel

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**.

8	IBM HTTP Ser	ver 7.0	_ 🗆 ×
WebSphere, software		ates using the port numbers listed below. If IBM HTTP Server or another application, the rom their default values.	
a burn	HTTP <u>P</u> ort:	80	
Sim	HTTP Administration Port:	8008	
InstallShield			
		< <u>Back Next &gt; C</u> an	cel

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**.

<b>ử</b>	IBM HTTP Server 7.0 🔔 🗖
WebSphere software	HTTP Administration Server Authentication Create a user ID and password to authenticate to the IBM HTTP Server administration server using the WebSphere Application Server administrative console. The newly-created user ID and password is encrypted and stored in the conf/admin.passwd file. You can create additional user IDs after the installation by using the htpasswd utility.
	Create a user ID for IBM HTTP Server administration server authenticati User ID: ihsadmin Password: ••••••• Confirm Password: •••••••
InstallShield	< Back Next > Cancel

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

#### \_\_\_\_8. Setup IBM HTTP Server administration server and click Next.

۲	IBM HTTP Server 7.0
WebSphere. software	Setup HTTP Server Administration Server Perform steps to administer IBM HTTP Server using the IBM HTTP Server administration server on Linux and UNIX operating systems. When selected, the installation grants a user ID write access to the necessary IBM HTTP Server and plug-in configuration files. Optionally, you can complete this step after installation by running the setupadm script.
	<ul> <li>Setup IBM HTTP Server administration server to administer IBM HTTP Server.</li> <li>Create a unique user ID and group for IBM HTTP Server administration files.</li> </ul>
	User ID: ihsadmin The user ID for the administration server cannot be a root user.
	<u>G</u> roup: ihsadmin
InstallShield	< <u>Back Next &gt; Cancel</u>

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.

8	IBM HTTP Server 7.0
Ž.	IBM HTTP Server Plug-in for IBM WebSphere Application Server
WebSphere, software	Silently install the plug-in using the remote installation scenario. The host name and web server definition are used when creating the default plug-in configuration file. This file is used to route requests to the Application Server. If there are multiple Application Servers, then select one of the servers and specify the machine's host name.
Part	✓ Install the IBM HTTP Server Plug-in for IBM WebSphere Application Server
	Web server definition:
	webserver1
	Host name or IP address for the Application Server:
InstallShield	
	< <u>B</u> ack <u>Next</u> <u>C</u> ancel

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

The installation begins.

2	IBM HTTP Server 7.0	- 🗆 ×
	Creating the uninstaller	
WebSphere. software	4%	
InstallShield		
	< <u>B</u> ack <u>I</u> Ot > <u>C</u> anc	el

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

\_\_\_\_10. When the product is successfully installed click **Finish**.

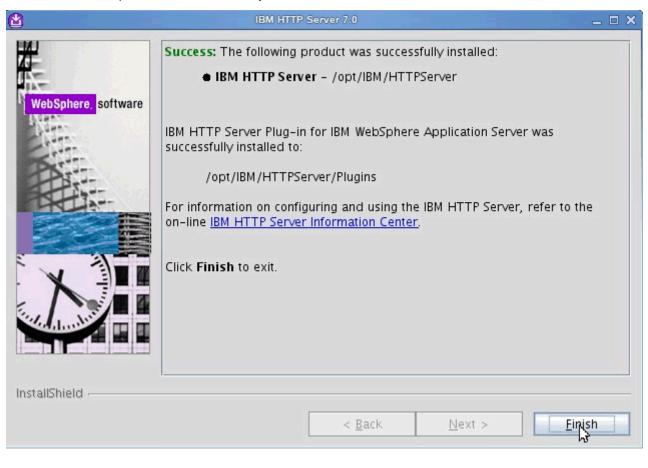


Figure 21. IBM HTTP Server 7.0 installation wizard: Installation completion screen

# 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.



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.

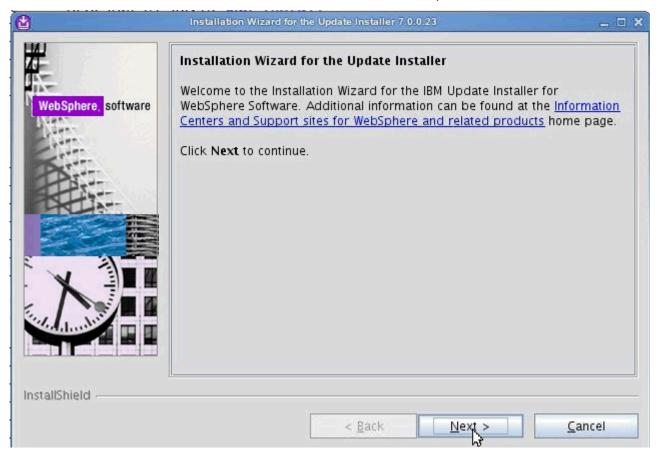


Figure 23. Installation Wizard for the Update Installer: Welcome screen

\_\_\_\_3. Accept both the IBM and non-IBM terms and click **Next**.

	Installation Wizard for the Update Installer 7.0.0.23	- • ×
144	Software License Agreement	
	Please read the following license agreement carefully.	New warman
WebSphere, software	International Program License Agreement	<b></b>
1/222	Part 1 – General Terms	
	BY DOWNLOADING, INSTALLING, COPYING, ACCESSING, OR USING THE PROGRAM YOU AGREE TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF ANOTHER PERSON OR A COMP. OR OTHER LEGAL ENTITY, YOU REPRESENT AND WARRANT THAT YOU H FULL AUTHORITY TO BIND THAT PERSON, COMPANY, OR LEGAL ENTITY T THESE TERMS. IF YOU DO NOT AGREE TO THESE TERMS, - DO NOT DOWNLOAD, INSTALL, COPY, ACCESS, OR USE THE PROGRAM;	AVE
	Read non-IBM terms	
ALL NE	I accept both the IBM and the non-IBM terms	
	$\bigcirc$ I do not accept the terms in the license agreement	
	Print	
InstallShield		
	< <u>Back Next</u>	el

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

\_\_\_\_4. The prerequisites are checked. Click **Next** if passed.

<b>2</b>	Installation Wizard for the Update Installer 7.0.0.23 📃 🗖 🗙
WebSphere, software	System Prerequisites Check         Passed: Your operating system completed the prerequisites check successfully.         Your operating system meets or exceeds the requirements for this product. See the WebSphere Application Server detailed system requirements Web pages for more information about supported operating systems. Go to the product support Web pages to obtain the latest maintenance packages to apply after installation.         Click Next to continue the installation.
InstallShield	< <u>B</u> ack <u>N</u> ext کے <u>C</u> ancel

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

\_\_\_\_5. Select the directory to install the product and click **Next**.

<b>&amp;</b>	Installation Wizard for the Update Installer 7.0.0.23	_ 🗆 🗙
WebSphere, software	Installation Directory IBM Update Installer for Websphere Software, Version 7.0.0.23 will be installed to the specified directory. You can specify a different directory or click <b>Browse</b> to select a direct Directory path:	
	/opt/IBM/WebSphere/UpdateInstaller Brow	wse
InstallShield	< <u>B</u> ack <u>Next</u>	ancel

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

\_\_\_6. Review the installation summary and click **Next**.

<b>2</b>	Installation Wizard for the Update Installer 7.0.0.23	_ 🗆 ×
WebSphere, software	Installation Summary         Review the summary for correctness. Click Back to change the values on previous panels. Click Next to begin the installation.         The following product will be installed:         • IBM Update Installer for WebSphere Software         Path: /opt/IBM/WebSphere/UpdateInstaller         for a total size:         • 336 MB	
InstallShield	< <u>B</u> ack <u>Next</u> > <u>C</u> anc	el

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

<b>(1)</b>	Installation Wizard for the Update Installer 7.0.0.23	_ 🗆 X
	Creating the uninstaller	
WebSphere, software	28%	
InstallShield	< <u>B</u> ack <u>N</u> ext⊙ <u>C</u> an	cel

The installation begins.

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

\_\_\_7. When the product is successfully installed click **Finish**.

<b>*</b>	Installation Wizard for the Update Installer 7.0.0.23 📃 🗆 🗙
WebSphere, software	Installation Complete         Success: The following product was successfully installed:         ● IBM Update Installer for WebSphere Software         Path: /opt/IBM/WebSphere/UpdateInstaller         Image: Complete Installer for WebSphere Software on exit.         You can also launch the Update Installer by running the update command in the installation directory.         Click Finish to exit the wizard.
InstallShield	< Back Next >

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**.

	Welcome to the IBM Update Installer for WebSphere Software wizard.
WebSphere, software	This wizard installs or uninstalls maintenance packages, including interim fixes, fix packs, and refresh packs. The following products are supported:
	<ul> <li>IBM WebSphere Application Server Version 6.1.0.0 or higher</li> <li>IBM WebSphere Application Server Network Deployment Version 6.1.0.0 or higher</li> </ul>
	<ul> <li>IBM_WebSphere Application Server – Express Version 6.1.0.0 or higher</li> </ul>
	<ul> <li>IBM Application Client for WebSphere Application Server Version</li> <li>6.1.0.0 or higher</li> <li>Web Server Plug-ins for WebSphere Application Server Version</li> </ul>
	6.1.0.0 or higher IBM WebSphere Application Server V6.1 Feature Pack for Web
	<ul> <li>Services</li> <li>IBM_WebSphere Application Server V6.1 Feature Pack for EIB 3.0</li> <li>IBM_WebSphere eXtreme Scale Version 7.0 or higher</li> </ul>
	<ul> <li>WebSphere Virtual Enterprise 6.1 or higher</li> <li>IBM HTTP Server Version 6 or higher</li> <li>IBM WebSphere Process Server Version 6.0 or higher</li> </ul>
	IBM WebSphere Enterprise Service Rus Version 6.0.1 or higher
tallShield	

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**.

	IBM Update Installer for WebSphere Software 7.0.0.23	- 🗆 🗙
WebSphere, software	Product Selection Enter the installation location of the product that you want to up You can select a different directory from the drop-down list, sp different directory, or click <b>Browse</b> to select a directory. Directory path:	
	/opt/IBM/HTTPServer	▼ B <u>r</u> owse
InstallShield	< <u>B</u> ack <u>N</u> ext >	<u>C</u> ancel

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

3. Select Install ma	intenance package and click <b>Next</b> .	
<b>2</b>	IBM Update Installer for WebSphere Software 7.0.0.23	- 🗆 X
WebSphere, software	Maintenance Operation Selection <ul> <li>Install maintenance package.</li> <li>Uninstall maintenance package.</li> </ul>	
InstallShield		
	< <u>Back</u> <u>Next</u> <u>C</u> ar	icel

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**.

	Maintenance Package Directory Selection Enter directory to list maintenance packages available for installation. You
VebSphere, <mark>software</mark>	can specify a directory or click <b>Browse</b> to select a path to maintenance package.
A STATE	Directory path:
Ser	/software/was_fp
Rei.	B <u>r</u> owse
ATTEN T	
	The latest maintenance packages are available online. Obtain maintenance packages for WebSphere Application Server and all WebSphere Application Server Feature Packs either by visiting the <u>Recommended fixes for</u> <u>WebSphere Application Server</u> webpage for a complete list or by using the <u>WebSphere Maintenance Download wizard</u> to find specific maintenance packages.
	packages for WebSphere Application Server and all WebSphere Application Server Feature Packs either by visiting the <u>Recommended fixes for</u> <u>WebSphere Application Server</u> webpage for a complete list or by using the <u>WebSphere Maintenance Download wizard</u> to find specific maintenance packages. Additional information can be found online at the <u>WebSphere Application</u>
allShield	packages for WebSphere Application Server and all WebSphere Application Server Feature Packs either by visiting the <u>Recommended fixes for</u> <u>WebSphere Application Server</u> webpage for a complete list or by using the <u>WebSphere Maintenance Download wizard</u> to find specific maintenance packages.

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**.

Available Maintenance Package to Select maintenance packages to insta	
Select <u>R</u> ecommended Updates	Clea <u>r</u> All Selections
☑ 7.0.0-WS-IHS-LinuxX64-FP0000	021.pak
7.0.0-WS-PLG-LinuxX64-FP0000	0021.pak - This p <u>r</u> oduct is not applic
7.0.0-WS-WAS-LinuxX64-FP0000	0021.pak - This p <u>r</u> oduct is not applic.
7.0.0-WS-WASSDK-LinuxX64-FPC	0000021.pak – Mismatched a <u>r</u> chitect
Each package selection might restrict further selection.	remaining packages available for
Multiple selections can be made for d	lifferent products.
Click Next to continue	
< <u>B</u> ack	<u>N</u> ext > <u>C</u> ancel

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

\_\_\_6. Review the installation summary and click **Next**.

<u>8</u>	IBM Update Installer for WebSphere Software 7.0.0.0 🔔 🗖 🗙
Æ.	Installation Summary
WebSphere, software	Review the summary for correctness. Click <b>Back</b> to change values on previous panels. Click <b>Next</b> to verify that I have sufficient privileges to perfom the installation.
Art	Verify my permissions to perform the installation.
	The following maintenance package will be installed:
	<ul> <li>7.0.0-WS-IHS-LinuxX64-FP0000021 - IBM HTTP Server</li> <li>7.0.0.21 FixPack</li> </ul>
	on the following product:
	IBM HTTP Server - V7.0.0.0     /opt/IBM/HTTPServer
	Click Next to begin the installation.
InstallShield	
	< <u>Back Next</u> > <u>Cancel</u>

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**.

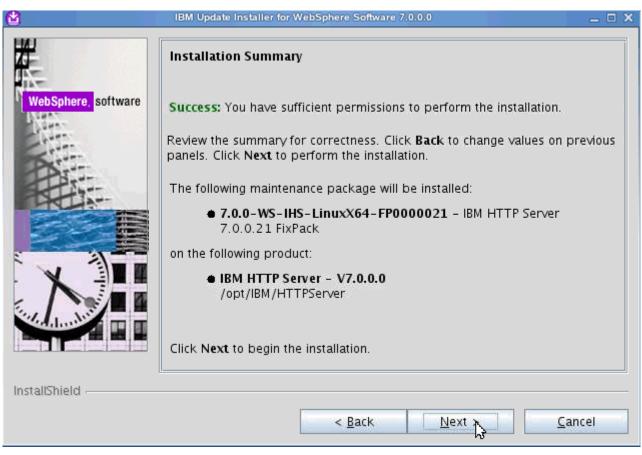


Figure 36. IBM Update Installer for WebSphere Software wizard: Installation Summary screen (2 of 2)

The installation components initialize.

۲	IBM Update Installer for WebSphere Software 7.0.0.0	- 🗆 🗙
	Initializing component: prereq.gskitlocal	
WebSphere software	50%	
InstallShield		cel

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.

2	IBM Update Installer for WebSphere Software 7.0.0.0	_ 🗆 🗙
WebSphere         software           WebSphere         software	Installation Complete Success: The following maintenance package was installed:	click
	< <u>Back</u> <u>Relaynch</u>	nish

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

\_\_\_\_9. Apply 70021 fix pack. On the Product Selection screen, click **Next**.

<b>(2)</b>	IBM Update Installer for WebSphere Software 7.0.0.0	_ 🗆 🗙
WebSphere, software	Product Selection Enter the installation location of the product that you want to upda You can select a different directory from the drop-down list, spec different directory, or click <b>Browse</b> to select a directory. Directory path:	
	/opt/IBM/HTTPServer/Plugins	▼ Browse
InstallShield	< Back Next	<u>C</u> ancel

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

10. Select Install ma	aintenance package and click Next.	
<u></u>	IBM Update Installer for WebSphere Software 7.0.0.0	_ 🗆 X
WebSphere, software	Maintenance Operation Selection <ul> <li>Install maintenance package.</li> <li>Uninstall maintenance package.</li> </ul>	
InstallShield		
	< <u>B</u> ack <u>N</u> ext S	Cancel

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**.

8	IBM Update Installer for WebSphere Software 7.0.0.0 🔔 🗆 🗙
H	Maintenance Package Directory Selection
WebSphere, software	Enter directory to list maintenance packages available for installation. You can specify a directory or click <b>Browse</b> to select a path to maintenance package.
Chittin .	Directory path:
S	/software/was_fp
	Browse
	The latest maintenance packages are available online. Obtain maintenance packages for WebSphere Application Server and all WebSphere Application Server Feature Packs either by visiting the <u>Recommended fixes for</u> <u>WebSphere Application Server</u> webpage for a complete list or by using the <u>WebSphere Maintenance Download wizard</u> to find specific maintenance packages.
	Additional information can be found online at the <u>WebSphere Application</u> Server library or <u>WebSphere Application Server information center</u> webpages.
InstallShield	
	< <u>Back Next</u> Cancel

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.

Ů	IBM Update Installer for WebSphere Software 7.0.0.0	- 🗆 🗙
WebSphere, software	Available Maintenance Package to Install Select maintenance packages to install:	
WHERE .	Select <u>R</u> ecommended Updates Deselect All Updates	
	✓ 7.0.0-WS-PLG-LinuxX64-FP0000021.pak	
PAR-	✓ 7.0.0-WS-WASSDK-LinuxX64-FP0000021.pak	
	7.0.0-WS-IHS-LinuxX64-FP0000021.pak - Not Applicable	
	7.0.0-WS-WAS-LinuxX64-FP0000021.pak - Not Applicable	
	Each package selection might restrict remaining packages available for further selection.	
	Multiple selections can be made for different products.	
	Click Next to continue	
InstallShield	<u> </u>	
installohield -	< <u>Back Next</u> <u>C</u> an	cel

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

\_\_\_\_13. Review the installation summary and click Next.

IBM Update Installer for WebSphere Software 7.0.0.0 👝 🗖 🗙
Installation Summary
Review the summary for correctness. Click <b>Back</b> to change values on previous panels. Click <b>Next</b> to perform the installation.
Verify my permissions to perform the installation.
The following maintenance packages will be installed:
<ul> <li>7.0.0-WS-PLG-LinuxX64-FP0000021 - WebSphere Plugin 7.0.0.21 FixPack</li> <li>7.0.0-WS-WASSDK-LinuxX64-FP0000021 - Software Developer Kit 7.0.0.21</li> </ul>
to the following location:
Click Next to begin the installation.
< Back Next > Cancel

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

<b>(2)</b>	IBM Update Installer for WebSphere Software 7.0.0.0	- • ×
	Initializing	
WebSphere, software	0%	
InstallShield		
	< <u>B</u> ack <u>N</u> > <u>C</u> an	cel

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

The installation begins.

\_\_\_\_14. The installation completes. Click Finish.

	IBM Update Installer for WebSphere Software 7.0.0.0	_ 🗆 🗙
WebSphere software	Installation Complete Success:The following maintenance packages were installed:	:lick
InstallShield	<u>ع</u> âck <u>R</u> elaunch آنیم	ish

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.

🖂 Se	curity	
	Global security	

Figure 46. Global security

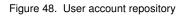
#### \_\_\_\_2. Select Enable application security.

Global security
Global security
Use this panel to configure administration all administrative functions and is used as customize the security policies for user ap
Security Configuration Wizard
Administrative security
Enable administrative security
1
Application security
🗹 Enable application security

Figure 47. Application security enablement

## \_\_\_\_ 3. Click Configure...

Current realm definition		γ	
Federated repositories		<u> </u>	
Available realm definitions			
Federated repositories	+	Configure	Set as current



\_\_\_\_4. In the Related Items section, click Manage repositories.

☑ Ignore case for authorization

Repositories in the realm: Add Base entry to Realm Use built-in repository Remove					
	Select	Base Entry	Repository Identifier	Repos	
	You can administer the following resources:				
o=defaultWIMFileBasedRealm		o=defaultWIMFileBasedRealm	InternalFileRepository	File	

Additional Properties	Related Items		
<ul> <li>Property extension repository</li> <li>Entry mapping repository</li> </ul>	<ul> <li>Manifige repositories</li> <li>Trusted authentication realms - int</li> </ul>		
Supported entity types			

Figure 49. Related items > Manage repositories

\_\_\_5. Click **Add**.

<u>Global security</u> > <u>Federated repositories</u> > Manage repositories					
Repositories that are configured in the system are listed in the following 1					
Preferences					
Jd Delete					
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 > <u>Federated repositories</u> > <u>Manage repositories</u> > New					
Specifies the configuration for secure access to a Lightweight Directory Access Protocol (LDAP) repository with optional failover					
eneral Properties					
Repository identifier					
eDir885					
LDAP server * Directory type	Security Bind distinguished name				
Novell Directory Services	cn=admin,o=ibm				
* Primary host name Port <primary host="" name=""> 389</primary>	Bind password				
Failover server used when primary is not available:	Login properties uid				
Delete Select Failover Host Name Port	LDAP attribute for Kerberos principal name				
None	Certificate mapping EXACT_DN				
Add	Certificate filter				
Support referrals to other LDAP servers	Require SSL communications				
	Centrally managed				
	Manage endpoint security configurations				
	O Use specific SSL alias				
	CellDefaultSSLSettings = <u>SSL configurations</u>				

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 vasadmin							
Server user identity							
Automatically generated server identity							
C Server identity that is stored in the repository							
Server user ID or administrative user on a Vers	sion 6.0.x node						
Password							
✓ Ignore case for authorization Repositories in the realm:							
Add Base entry to Realm Use built	in repository Remove						
Select Base Entry	Repository Identifier	Repository Type					
You can administer the following resources:							
I=eDir88,ou=Lotus,ou=Software           Group,o=ibm	eDir885	LDAP:NDS					
o=defaultWIMFileBasedRealm	InternalFileRepository	File					
Total 2							

Global security > Federated repositories > I=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 repositoriv 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 - Add Repository
* Distinguished name of a base entry that uniquely identifies this set of entries in the realm I=eDir88,ou=Lotus,ou=Softwa
Distinguished name of a base entry in this repository  =eDir88,ou=Lotus,ou=Softwa
Apply OK Reset Cancel

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

\_\_\_\_8. Restart all Deployment Manager and Nodes

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

# DBWizard

Assume that DB2 and Tivoli Directory Integrator are already installed.

## Preparing Icuser and Wizard

\_\_\_1. Log in to the DB2 server as the root user and type the following command to create a user.

# <sup>1</sup> 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.



Figure 55. Extracting wizard package and changing wizard directory permission

\_\_\_\_3. Check DISPLAY value.

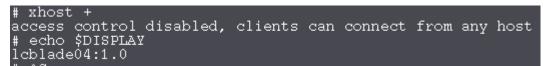


Figure 56. Checking display value

\_\_\_\_4. Switch to DB2 administration user, db2inst1, and export DISPLAY.



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_2	0120614-2200/Wizards
bash-3.2\$ whoami 👘	57
db2inst1	<u>ل</u>
bash-3.2\$ ./dbWizard.	sh

Figure 58. Running .dbWizard.sh

\_\_\_\_2. The database wizard for IBM Connections 4.0 opens. Click Next.

-	Database wizard for IBM Connections 4.0	
Da	atabase wizard for IBM Connections 4.0	
m	his wizard can create, delete or update the IBM Connections databases.	
Te	access information about this product, see the IBM Support Web site:	IBM.
h	tp://www-10.lotus.com/ldd/icbetawiki.nsf/xpViewCategories.xsp?lookupName=IBM Connections 4.0 beta documentation	
Т	o continue, click Next.	
L	censed Materials - Property of IBM. License L-CMAS-809PLG	
S f	Copyright IBM Corporation and its licensors 2007, 2011. All Rights Reserved. IBM, the IBM logo, brozom and Lokus are trademarks of IBM Corporation in the United ties, other countries, or both. Other company, product or service names may be trademarks or service marks of others. A current list of IBM hademarks is available on e Web at www.lom.com/legalicopytrade shtml. U.S. Government Users Restricted Rights: Use, d uplication or disclosure restricted by GSA ADP Schedule Contract with M Corp. Please see the About page for further information.	
-		
	*	
	Back Next	Gancel

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

\_\_\_\_3. In the database task selection screen, select **Create** and click **Next**.

	Database wizard for IBM (	Connections 4.0		
Database task selection				
Select the database task:				
⊙ Create				IBM.
O Delete				
O Update operation only for IBM Connec	tions database 3.0.1.x to 4.0			And the second second second
		Back	Next	Gancel

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**.

- Database wizard for IE	M Connections 4.0		· •
Database selection			
Select the database type, installation location, and database instance.			
DB2 Universal Database (TM)			IBM.
O Oracle Enterprise Edition			
Database installation location:			
/opt2/IBM/db2/V9.7		Browse	
Database instance:			
db2inst1		-	
•			
	Back	<u>N</u> ext	Cancel

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**.

	Database wizard for IE	BM Connections 4.0		
oplications selection				
	rver. You will need Cognos to use Metrics.			
Activities				
I Blogs				
Communities				
Bookmarks				
Profiles				
I Home page				
🖌 Wikis				
🖌 Files				
Forums				
Mobile				
Metrics				
Cognos				
Select All			-	
			_	
*				<u>.</u>
		Back	Next	<u>C</u> ancel

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

### \_\_\_\_6. Check the pre-configuration task summary and click **Create**.

E	Database wizard for IBM Connections 4.0	
Pre	e-configuration task summary	
Aci Da Da Da Da Da Da Da Da Da Da Da Da Da	A Connections is ready to create databases for the following applications.	
*	Back Create	Cancel

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

Creation of the database starts.

Database wizard for IBM Connections 41	)	
Database creation task		
Creating databases		
Logging to /home/db2inst1/kWizard/bg/dbWizard/dbConfg_20120912_161812_mobile_createDb.bg.		IBN.
Rack	Next	Gancel

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.

Profiles population wizard for IBM Connections 4.0	
Welcome to Profiles population wizard for IBM Connections 4.0	
This wizard populates the Profiles database for IBM Connections with users from your LDAP directory.	723
To access information about this product, click the Launch Information Center.	╧╧╤╧╤╘╺
Launch Information Center	
click Next to continue.	
Licensed Materials - Property of IBM. License L-CMAS-8D9PLG	
©Copyright IBM Corporation and its licensors 2007, 2011. All Rights Reserved. IBM, the IBM logo, ibm.com and Lotus are trademarks of IBM Corporation in the United States, other countries, or both. Other company, product or service names may be trademarks or service marks of others. A current list of IBM trademarks is available on the Web at	
www.ibm.com/iegai/copytrade.shtml. U.S. Government Users Restricted Rights: Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp. Please see the About page for further information.	
Back	Next Cancel

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

\_\_\_\_2. Select the location to install the Tivoli Integrator and click **Next**.

Profiles population wizard for IBM Connections 4.0			_ 🗆 🗵
Tivoli Directory Integrator install location			
8 The wizard was unable to locate the Tivoli Directory Integrator in the default location.			
IBM Connections uses Tivoli Directory Integrator to populate the Profiles database. Specify the location of the Tivoli Dire Integrator program files. Tivoli Directory Integrator must be version 7.1, FixPack2.	ctory		
Select the location of the Tivoli Directory Integrator installation directory:			IW.
C:itBM\TDI\V7.1	Browse		
	Back	Next	⊆ancel

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**.

Profiles population wizard for IBM Connections 4.0			- O ×
Profiles database type			
Select the Profiles database type.			
DB2 Universal Database(TM)     Oracle Enterprise Edition			ЫV.
C SQL Server Enterprise Edition			
	Back	Next	<u>C</u> ancel

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

Profiles population wizard for IBM Connections 4.0			
Profiles database properties			1
Enter the Profiles database properties. The wizard uses this information to access the Profiles database. Host name: 			W.
Port:			
50000			
Database name:			
PEOPLEDB			
JDBC driver library path:			
C:\db2jdbc	Browse		
User ID (Account used to write to database):			
kuser			
Password:			
	Back	Next	Cancel

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**.

Profiles population wizard for IBM Connections 4.0			_ 🗆 🗙
LDAP server connection			
Specify the LDAP host name and port to enable the Profiles population wizard to connect to the LDAP server.			
LDAP server name:			
<ldap name="" server=""></ldap>			7 <u>7</u> 720
LDAP server port:			
389			
Select to use SSL communication for secured access			
Use SSL communication			
	Back	Next	⊆ancel
	Fact	- ūess	Zance.

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			- O ×
LDAP authentication properties			
Enter the bind distinguished name and password to to allow the wizard to access the LDAP directory.		_	
Bind distinguished name (DN): cn=wpsbind wpsbind,ou=Users,l=eDir88,ou=Lotus,ou=Software Group,o=ibm			
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.

Profiles population wizard for IBM Connections 4.0			- O ×
Base distinguished name and filter for searches			
			1
Enter the base distinguished name and filter for this wizard to begin searching for users in the LDAP directory tree.			
LDAP user search base:		TE	
ou=Users,I=eDir88,ou=Lotus,ou=Software Group,o=ibm	*		
LDAP user search filter:			
	Back	Next	Cancel
	Back	Next	Cancel

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**.

	e or a JavaScript function for each fi ns by selecting the column header, or	eld in the Profiles database. r select each row to add, remove, or edit th	e LDAP attribute or Javascr	
Database Fields	LDAP Attributes or JS Functions	Description		
alternateLastname		Alternate last name		
bidgId		Building		
blogUrl		Blog link		
calendarUrl		Calendar link		
countryCode	c	Country code		
courtesyTitle		Courtesy title		
deptNumber		Department number		
description	description	About me		
displayName	cn	Name		
distinguishedName	\$dn	LDAP distinguished name		
email	mail	Office email		
employeeNumber	employeenumber	Employee number		
employeeTypeCode	employeetype	Employee type		
experience		Background		
faxNumber	facsimiletelephonenumber	Fax number		
floor		Floor		
freeBusyUrl		Free/Busy time link		
givenName	givenName	default given name		
givenNames	givenName	Supported multiple given names		
groupwareEmail		Alternate email		*

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**.

Performation and database tasks  elect the check box for each type of optional information that you want to add. You must supply a CSV file with data for formation type.  Countries  D:\LCI4:0_20120817-2146\Wizards\TDIPopulation\win\TDI\isocc.csv  Departments	r each Browse		
formation type. Countries D:\LCI4.0_20120817-2146\Wizards\TDIPopulation\win\TDI\isocc.csv		IBI	1.
D:\LCI4.0_20120817-2146\Wizards\TDIPopulation\win\TDI\isocc.csv	Browse	191	= 0
	Browse		
Denartments	And the second line of the lin		
( ) populations			
D:\LCI4.0_20120817-2146\Wizards\TDIPopulation\win\TDI\deptinfo.csv	Browse		
C Organizations			
D:\LC14.0_20120817-2146\Wizards\TDIPopulation\win\TDI\orginfo.csv	Browse		
Employee types			
D:\LCI4.0_20120817-2146\Wizards\TDIPopulation\win\TDI\emptype.csv	Browse		
Work locations			
D:\LCI4.0_20120817-2146\Wizards\TDIPopulation\win\TDI\workloc.csv	Browse		
Do you want to run the task that marks the profiles of each manager?			
C No			

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

\_\_\_\_10. Check the population configuration summary and click **Configure**.

Profiles population configuration summary	
Profile population wizard is ready to run the population with the following configuration.	IBM
Configuration details: Database host name: <database host="" name=""> Database name: PEOPLEDB Database port: 50000 JDBC driver library path: C:\db2jdbc Database user ID: (cuser Database type: DB2 Universal Database(TM) LDAP host name: <ldaphost name=""> LDAP server port: 389 Bind distinguished name: cn=wpsbind wpsbind,ou=Users,l=eDir88,ou=Lotus,ou=Software Group,o=ibm LDAP user search filter: (8(uid=*)(objectclass=inetOrgPerson)) Tivol Directory Integrator installation location: C:\IBM(TDI\V7.1 Use SSL communication: No Optional task list: Mark managers To change any settings, click Back. To begin the configuration, click Configure</ldaphost></database>	

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

## \_\_\_\_11. The population task begins.

Profiles population wizard for IBM Connections 4.0	
Executing population task	
This task may take several minutes or hours, depending on the size of your LDAP directory.	
Populating	TRM
Logging into C:\Documents and Settings\Administrator\JcWizard\log\tdi\tdi_20120618_172552.log	=
Open Log	
<u>B</u> ack	Mext <u>C</u> ancel

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.

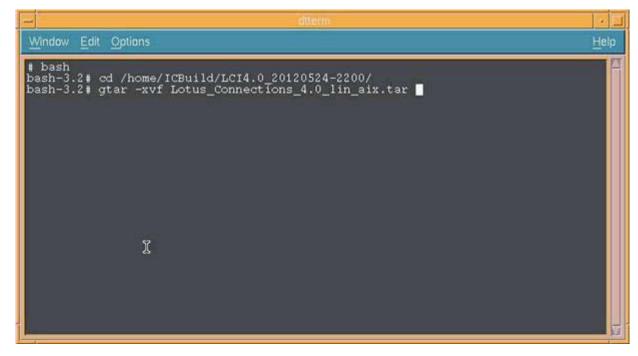


Figure 76. Install Connections

\_\_\_\_2. Start WebSphere Application Server Network Deployment Manager.

-	dilems	
Window Edit	Options	Help
bash-3.2#	cd /opt/IBM/WebSphere/AppServer/profiles/Dmgr01/bin ./startManager.sh Tool information is being logged in file /opt/IBM/WebSphere/AppServer/profiles/Dmgr01/logs/dmgr/startServe	r. 10
ADMU3100I: ADMU3200I:	Starting tool with the Dmgr01 profile Reading configuration for server: dmgr Server launched. Waiting for initialization status. Server dmgr open for e-business; process id is 246002	

Figure 77. Starting WebSphere Application Server Network Deployment Manager

3. Start IBM Installation Manager.

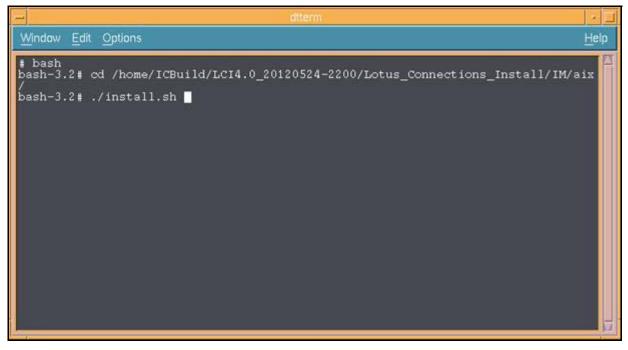


Figure 78. Starting IBM Installation Manager

\_\_\_\_4. In the Select packages to install window, select the packages that you want to install and click **Next** to continue.

	EM Installation Manager			
Install Packages Select packages to install:			-	2
Installation Package	Status	Vendor	License Key Type	
다고 🛿 IEM® Installation Magager 니고 🔍 Version 1.4.4	Will be installed	IBM	No key required	
□ IBM Connections □ I IBM Connections □ II III Version 4.0.0.0	Will be installed			
Show <u>all versions</u>		Check for Othe	er Versions, Fixes, and Extensio	ons
Show <u>all versions</u>		Check for Othe	er Versions, Fixes, and Extensio	ons
Details IBM® Installation Manager 1.4.4		Check for Othe	er Versions, Fixes, and Extensio	ons
Details IBM® Installation Manager 1.4.4 IBM® Installation Manager More inte.	Off store Conversions Installing data	Check for Othe	er Versions, Fixes, and Extensio	ons
Details IBM® Installation Manager 1.4.4	0/Lotus_Connections_Install/11Waix	Check for Othe	er Versions, Fixes, and Extensio	ons
Details IBM® Installation Manager 1.4.4 IBM® Installation Manager More inte.	Q/Lotus_Connections_Install/M/aix	Check for Othe	er Versions, Fixes, and Extensio	ons
Details IBM® Installation Manager 1.4.4 IBM® Installation Manager More inte.	Q/Lotus_Connections_Install/IM/aix	Check for Othe	er Versions, Fixes, and Extensio	ons

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**.

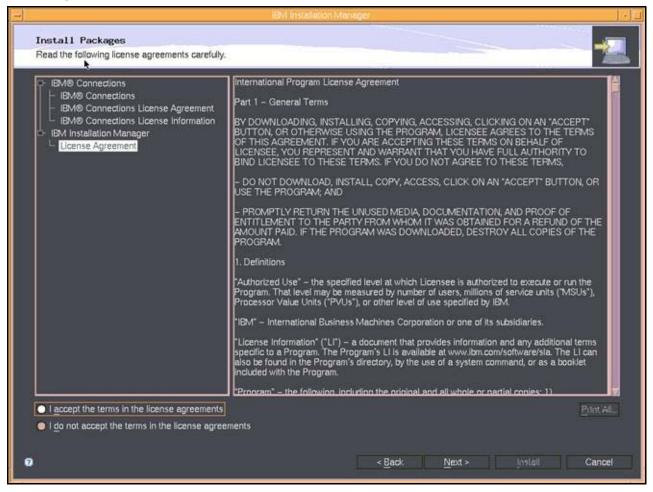


Figure 80. Accepting the terms in the license agreements

- \_\_\_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.

	IBM Installation Manager	
Install Packages Select a location for the share	d resources directory and a location for Installation Manager.	-2
The shared resources of 2) The installation director important: You can only set the state of the state	s, files are stored in two locations: directory – resources that can be shared by multiple packages. ry – any resources that are unique to the package that you are installing. elect the shared resources directory the first time you install a package with the IBM Installation Manage h the most available space because it must have adequate space for the shared resources of future pack	r. For best ages.
Shared Resources Directory.	/opt/IBM/SSPShared	Bro <u>w</u> se
Once installed, IBM Install	lation Manager will be used to install, update, modify, manage and uninstall your packages.	Browse
Disk Space Information Volume Available Space /opt 31.88 GB		

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

### \_\_\_\_7. Specify the location of the installation directory for IBM Connections.

1		IBM Installation Manager	
	Install Packages A package group is a location that or group and will share a common use	contains one or more packages. Some compatible packages can be installed into a commor r interface. Select an existing package group, or create a new one.	n package
	C brether exercic parkage group		
	O Create a new package grob		
	Package Group Name	Installation Directory	Architecture
	- 🐪 IBM® Connections	/apt/IBM/LatusCannections	
	Package Group Name: IBM® Con Installation <u>D</u> irectory: /opt/IB	nections M/LotusConnections	Browse
	Details	Disk Space Information	
	Shared Resources Directory: /opl/1	BM/SSPShared Volume Available Space /opt 31.88 GB	
0		< Back Next > ji)si	Lasi Cancel

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

\_\_\_\_8. Confirm the applications that you want to install:

				iBM in:	stallation Manu	ger			
	Packages								
Select the t	features to insta	ш.							
Features							1		4
	M® Installation		14						
	M Connections	4.0.0.0							
	Core Features								
-12	Search								
	News reposi Home page	,ory							
and the second	All Features								
⊢¤	Activities								
- 🖬	Blogs								
- 🖬	Communities								
- 🖬	Bookmarks								
-12	Files								
-12	Forums Metrics								
	Mobile								
	11000NC								
	dependencies						Expand	All Collapse	All Restore Default
ø - Selec	cted by Installati	on Manager I	because of de	pendencies					
Details									
Details									
IBM® Inst	tallation Mana	ger 1.4.4							
IBM® Insta	allation Manage	r							
-									
	ce Information								
Disk Spac									
Disk Spac		And and a second se		and the second s					
		Volume		Temporary		Available			
	lesources Area	Volume /not		Temporary 1019.39 MB		Available 31.88 GR < Back	Next >		istall Cance

Figure 83. Selecting the features to install

- \_a. Clear Metrics.
- \_b. Click Next.

			18W1.005	dalletion Mana					
Install	Packages								C
Select the	features to install.								
Retures								1	5
	M® Installation Manage	134							
	M Connections 4.0.0.0								
	Core Features								
I I-W	Search								
	News repository								
Lø	Home page								
0.00	All Features								
	Activities								
- 🖬	Blogs								
- 🖬	Communities								
-2	Bookmarks								
- 2	Files								
-2	Forums								
	Metrics								
	Mobile								
	Contraction Contraction								
	ienendencies					Expand All	Collaose All	Restore Default	
Show d	Jependencies	ner hecause of de	nondondos			Expand All	Collapse All	Restore Default	
Show d	dependencies cted by Installation Manai	ger because of de	pendencies			Expand All	Collapse All	Restore Default	
■ <u>S</u> how d ø – Selec		ger because of de	pendencies			Expand All	<u>C</u> ollapse All	Restore Default	
Show d		ger because of de	pendencies			Expand All	Collapse All	Restore Default	
Show d Show d - Selec Details Metrics		ger because of de	pendencies			Expand All	<u>C</u> ollapse All	Restore Default	
■ <u>S</u> how d ø – Selec		ger because of de	pendencies			Expand All	Collapse All	Restore Default	
Show d Show d - Selec Details Metrics		ger because of de	pendencies			Expand All	Collapse All	Restore Default	
Show d Show d - Selec Details Metrics		ger because of de	pendencies			Expand All	<u>C</u> ollapse All	Restore Default	
■ Show d		ger because of de	pendencies			Expand All	<u>C</u> ollapse All	Restore Default	
■ Show d	cted by Installation Manar			Total	Augilabla	Expand All	<u>C</u> ollapse All	Restore Default	
Show d S	ce Information Volume	Required	Temporary		Available	Expand All	<u>C</u> ollapse All	Restore Default	
Show d S	cted by Installation Manar	Required			Available 31.88 GB < Back	Expand All	Collapse All		

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.

Common Configurations     WebSphere	Common Configurations WebSphere		
Topology     Database     Content Store     Notification	WebSphere Application Server Selection         Installation location:         /opt/IBM/WebSphere/AppServer         Deployment manager profile         Dmgr01         Host name <host name<="" td=""> <host name<="" td="">         Oployment Manager Credentials         These credentials must exist for the selected Profile.         Administrator user ID:         wasadmin         Administrator password:         *******         SOAP port number.         B075         Validate</host></host>	Browse	

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.

-	i8M Installation Manager
Install Packages Fill in the configurations for the p	packages.
G Common Configurations     +      +      +      WebSphere     -      Topology	Common Configurations WebSphere
	WebSphere Application Server Selection
	Progress Information
i	Retrieving SSL certificate
	Cancel
	These credentials must exist for the selected Profile.
	Administrator user ID:
	wasadmin
	Administrator password:
	*****
	SOAP port number:
	Validate
0	< Back Next + Install Cancel

Figure 86. Verifying the Deployment Manager information



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

_d.	When the verification test is successful, click <b>Next</b> .
-----	---

8	IBM Installation Manager	· •
Install Packages Fill in the configurations for the	packages.	2
C- @ Common Configurations	Common Configurations WebSphere	
Content Store	WebSphere Application Server Selection	
	/opt/IBM/WebSphere/AppServer. Information Dialog	
i	Validation successful.	
	These credentials must exist for the selected Profile.	
	Administrator user ID: wasadmin Administrator password:	
	SOAP port number:	
	es79 Validate	
Q	< <u>B</u> ack <u>N</u> ext > <u>I</u> nsia∜ Cano	el

Figure 87. Validation successful message

10. Configure your topology and click Next.

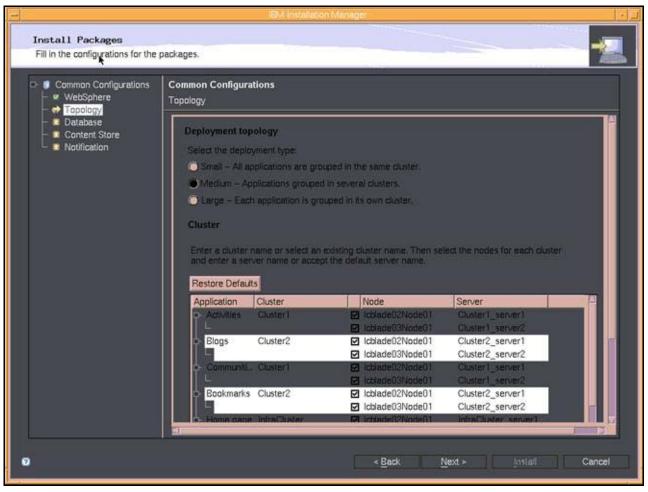


Figure 88. Configuring topology

\_\_\_\_11. Enter the database information.

	IBM Installation Manager	
Install Packages		-57
Fill in the configurations for the	packages.	
🕞 🦸 Common Configurations	Common Configurations	
- ♥ WebSphere - ♥ Topology	Database	
Database	Database Location	14
Notification	Are all IEM Connections applications using the same database instance?	
	Ves, the applications are on the same database instance.	
	No, the applications are not on the same database instance.	
	Database Type	
	Database type:	
	DB2 Universal Databas:	
	Database Server Information	
	Database server host name:	
	<database host="" name="" server=""></database>	
	Parc	
	50000	
	JDBC driver location:	
	/opt/jdbc Browse	
	Application Database Information	

Figure 89. Entering the database information

- \_\_\_a. Click Validate.
  - b. Click **OK** to close the validation message.

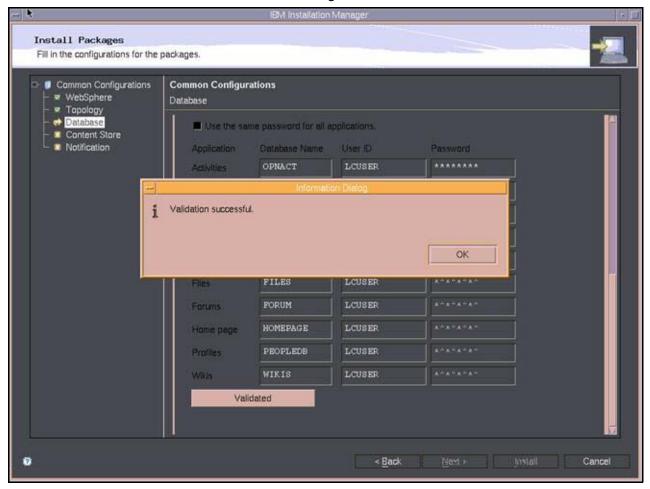


Figure 90. Validation successful message

\_\_\_\_12. Specify the locations of the content stores.

	IBM Installation Manager (*
Install Packages Please click the "Validate" bu	iton to continue.
Common Configurations     WebSphere     Topology     Database     Content Store     Notification	Common Configurations Content Store         Shared Content Store         Content that is shared among all nodes. Ensure each node in the duster can access the network location.         Select a network shared location:         /opt2/share/LCShareData         Local Content Store         Content is stored locally on each node. Ensure the path exists on each node.         Select a local location:         /opt2/LCLocalData
0	< Back Next > Install Cancel

Figure 91. Specifying the locations of the content stores

- \_\_\_a. Click Validate.
  - b. Click **OK** to close the validation message.

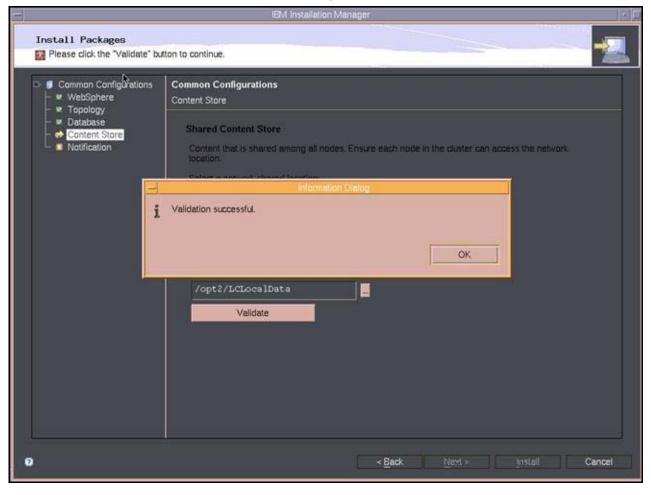


Figure 92. Validation successful message

\_\_\_\_13. Select a Notification solution and click **Next**.

	IBM installation Manager			
Install Packages Fill in the configurations for the packages.				
□-   Common Configurations  WebSphere  Topology	Common Configurations Notification			
	Notification         Mail server type:            WebSphere Java Mail Session – Use a single mail server for all notifications.             DINS MX Records – Use information from DNS to determine which mail servers to use.             SMTP Server Information             This server is used to send outgoing mail notifications.             Host name of SMTP messaging server:                 Host name of SMTP messaging server/>         Pont (default for non-SSL is 25, SSL is 465):             25             Encrypt outgoing mail traffic using SSL             Anmix_000_000             Password :			

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

	IBM Installation Manager
Install Packages Fill in the configurations for the	packages.
☐ Common Configurations     ☐ ▼ WgbSphere     ☐ ▼ Topology	Common Configurations Notification
<ul> <li>✓ Database</li> <li>✓ Content Store</li> <li>✓ Notification</li> </ul>	ReplyTo Email Address A unique email address is created for each Notification. Domain name: us.ibm.com
	None - Use a system generated unique ID for each ReplyTo email address.  Prefbt - Use a prefbt with the system generated unique ID. Suffty - Use a suffx with the system generated unique ID. Prefbt: (Example: toreplyto_syour_user_D>@usibm.com) Icreplyto_
	Mail file Information Mail file that receives all ReplyTo emails. Server: <server> User ID: ReplyTo</server>
Ø	< Back Next > Install Cancel

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**.

	Instaliation Manager	-
Install Packages Review the summary information.		
Target Location Package Group Name: IBM0 Connections Installation Directory: /opt/IBM/LotusConnection Shared Resources Directory: /opt/IBM/SSPShared Packages	ns	
Packages  I IBM® Installation Manager 1.4.4  III IBM Connections 4.0.0  IIIM Connections 4.0.0  IIIM Conrections 4.0.0  IIIM Conrections 4.0.0  IIIM Conrections 4.0.0  IIIM Connections 4.0.0  IIIM C		
Environment	Disk Space Information	
Environment English	Disk Space Information Total Available Space /opt 31.89 GB /home 34.06 GB Total Download Size: 1.12 GB Total Installation Size: 1.83 GB	

Figure 95. Summary information

### \_\_\_\_15. To start the installation, click **Install**.

1	iBM installation Manager	
	Install Packages Review the summary information.	
	Target Location         Package Group Name:       IBM® Connections         Installation Directory:       /opt/IBM/LotusConnections         Shared Resources Directory:       /opt/IBM/SSPShared         Packages	
	Packages BM® Installation Manager 1.4.4 BM® Installation Manager 1.4.4 BM Connections 4.0.0 Core Features Core Features Core Features	
	Environment Disk Space Information	
	English       Total Available Space         /opt       31.89 GB         /home       34.06 GB         Total Download Size:       1.12 GB         Total Installation Size:       1.83 GB	
	Repository Information	
+	stering (Tel. Islag Tel. 1951)(5 of 101120 (00%) sensitied	Pause Download Cancel

Figure 96. Installation in progress

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

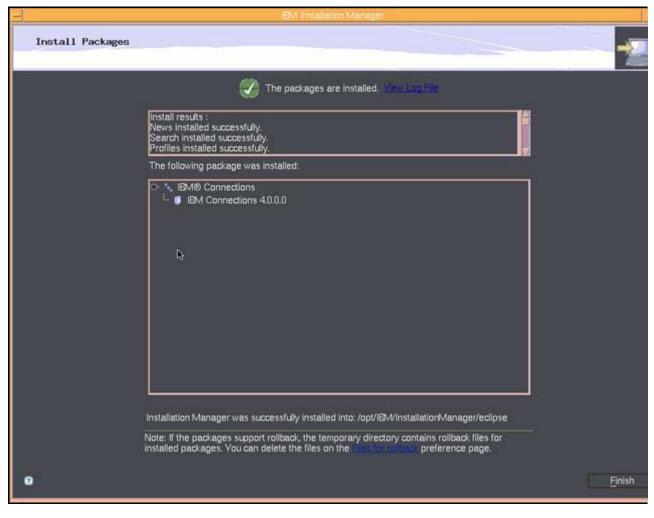


Figure 97. Installation completion

17. Restart the Deployment Manager.

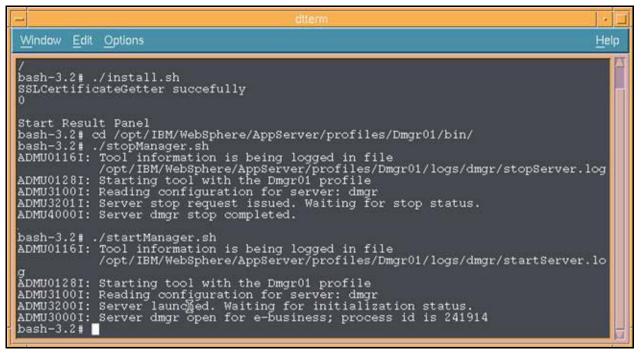


Figure 98. Restarting the Deployment Manager

\_\_\_\_18. Start all the federated nodes and enter the startNode command.

dtterm	· 🗆
Window Edit Options	lelp
<pre>* 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</pre>	

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**.

Add	Node Remove Node	Force Delete Synchronize	Full Resynchronize	Stop	
	6 # 9				
Select	Name 🐎	Host Name 💲	Version 🗘	Discovery Protocol 💲	Status 🙆
You c	an administer the following re	sourcest			
	Icblade01CellManager01	ibm.com	ND 7.0.0.21	тср	•
Г	Icblade02Node01	ibm.com	ND 7.0.0.21	TCP	•
Г	Icblade03Node01	ibm.com	ND 7.0.0.21	TCP	•

Figure 100. Adding a node from the system administration

#### \_\_\_\_2. Choose Unmanaged node.

Node	
e this (	page to add either a managed or an unmanaged node.
С. н	lanaged node
15	ecifies the creation of a managed node. A managed node contains an application server process that runs within the deployment manager cell. The managed node associated with a node agent process that maintains the configuration for the node and controls its operation. Choosing this option results in running the add node lifty to federate an existing standalone application server.
€u	inmanaged node
	ecifies the creation of an unmanaged node. An unmanaged node represents a node in the topology that does not have an application server process or a node ent process. Unmanaged nodes are for other server processes, such as Web servers that exist on their own node in the topology.

Figure 101. Selecting node type

\_\_\_3. Input node name and host name.

Nodes > New	
Use this page to view or change the confi does not have a node agent running to n	
Configuration	
General Properties	The additio
* Name	applied or s
ihs	Additional
* Host Name <host name=""></host>	■ Custa
* Platform Type AIX -	
Apply OK Reset Cancel	

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**.

e this page to create a ne Step 1: Select a	Select a node for the Web server and select the Web server type
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 that corresponds to the Web server you want to add. Select node ihs * Server name webserver1 * Type IBM HTTP Server

Figure 103. Inputting server name

#### \_\_\_7. Click **Next** and then **Next**.

	Step 1: Select a node for the Web	Select	Select a Web server template			
	server and select the Web server type	Select	the template that corre	sponds to the ser	rver that you want to create.	
•	Step 2: Select a Web server template Step 3: Enter the properties for the new Web server Step 4: Confirm new Web server	(14) (1) (1)	÷			
		Select	Template Name	Туре	Description	
		8	IHS	System	The IHS Web Server Template	

Figure 104. Selecting a web server template

\_\_\_\_8. Modify the HTTP server installation path and input username/password for IBM HTTP Server administration.

	Step 1: Select a node for the Web	Enter the properties for the new Web server	
	server and select the Web server type	Enter the Web server properties.	
		* Port	
	Step 2: Select a Web server	80	
	template	Web server installation location	
4	Step 3: Enter the	/opt/IBM/HTTPServer	
	properties for the	Plug-in installation location	
	new Web server	/opt/IBM/HTTPServer/Plugins	
	Step 4: Confirm new Web server	Application mapping to the Web server	
		Enter the IBM Administration Server properties.	
		* Administration Server Port 8008	
		+ Usemame	
		ihsadmin	
		+ Password	
		+ Confirm password	
		******	
		Use SSL	
		La Use ool	
-	Previous Next Cano		

Figure 105. Entering the properties for the new web server

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

Step 1: Select a node for the Web	Confirm new Web server
server and select the Web server type	The following is a summary of your selections. Click the Finish button to complete the Web server creation. If there are settings you wish to change, click on Previous button to review the server
Step 2: Select a Web server template	settings.
	Summary of actions:
Step 3: Enter the properties for the new Web server	New Web server entry "webserver2" will be created on node "ihs" Platform Type "AIX" Web server installation
Step 4: Confirm new Web server	root "/usr/IBM/HTTPServer" Plug-in installation root "/usr/IBM/HTTPServer/Plugins". 💌

Figure 106. Confirming new web server

\_\_\_\_10. Click Save.

	Generate Plug-in	Propagate Plug-in New Del	te Templates St	art Stop Terminate		
0	6 # 9					
Selec	t Name 📚 _	Web server Type 🗘	Node 🗘 _	Host Name 🛟 _	Version 🗘 _	Status ሷ
You	can administer the fo	llowing resources:				
Г	webserver1	IBM HTTP Server	ihs	ilian ibm.com	Not applicable	
Tota	il 1					

Figure 107. Saving the new web server

- \_\_\_\_11. Synchronize all the nodes.
- \_\_\_\_12. Start IBM HTTP Server and IBM HTTP Server administration.



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. Generate Plug-in Propagate Plug-in New Delete Templates... Start Stop Terminate 00 7 9 Select Name 🐎 Host Name 🗘\_ Web server Type 🔿 \_ Node O\_ Version 🗘 Status 🗘 You can administer the following resources: webserver1 IBM HTTP Server ihs .com Not applicable Total 1

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

\_\_\_\_15. Select the check box for your webserver1. Click Propagate Plug-in.

	Generate Plug-in	Propagate Plug-in New De	lete Templates	Start Stop Terminate		
0	•					
Selec	t Name 🐎	Web server Type 💲	Node 🐎	Host Name 🗘 _	Version 🐎	Status 😋
You	can administer the	following resources:				
ব	vebserver1	IBM HTTP Server	ihs	ibm.com	Not applicable	•
Tota	11					

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.



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**.

-		IBM Key Management		· [
Key Database <u>F</u> ile <u>C</u> i				
🗅 🥔 🖬 😫				
STORA - NAMENA (LL		Key database information		
DB-Type:				
File Name:				
Token Label:				
		Key database content		
Personal Certificates	·	New		Recejve
	Key database type	CMS		Delete
	Elle Name:	plugin-key kdb	Erowse	Vie <u>w</u> /Edit
	Location:	/opt/IBM/Plugins_keydb		Import
		<u>Q</u> K <u>C</u> ancel		Recreate Request
	-			Rename
				k
				New Self-Signed
				Extract Certificate

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**.

-	Password Prompt
<u>P</u> assword:	••••
Co <u>n</u> firm Password:	••••
■ Expiration time ✓ Stash password	60 <u>D</u> ays to a file
<u>0</u> K	<u>R</u> eset <u>C</u> ancel

Figure 114. Password Prompt

\_\_\_\_4. The new key database should display in the iKeyman utility with default signer certificates. Click **New Self-Signed...** 

	IBM Key Management – [/opt/IBM/Plugins_keydb/plugin=key.kdb]		
a second a second a second second second	e <u>C</u> reate <u>View</u> <u>H</u> elp		
l 🎽 🔒	😤 🚳 🗔		
And the second second	Key database information		
DB-Type:	CMS		
ile Name:	/opt/IBM/Plugins_keydb/plugin-key.kdb		
oken Labet			
	Key database content		
		_	
ersonal Certifi	cates	-	Receive
			Rece <u>i</u> ve Delete
			Delete
			<u>D</u> elete Vie <u>w</u> /Edit
			Delete
			<u>D</u> elete Vie <u>w</u> /Edit
Personal Certifi			Delete Vie <u>w</u> /Edit Export/Import
			Delete Vie <u>w</u> /Edit Export/Import Recre <u>a</u> te Request
			Delete Vie <u>w</u> /Edit Export/Import Recre <u>a</u> te Request Rena <u>m</u> e

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**.

DB-Type: CMS File Name: /opt/IBM/Plugins_k Token Labet		
Personal Certificates * WebSphere Plugin Key	Kgy Size     1024 •       Signature Algorithm     SHA1WithRSA •       Common Name     (optional) < Common Name (optional)>       Organization     (optional)       Organizational Unit (optional)	Receive

Figure 116. Creating New Self-Signed Certificate

\_\_\_6. You can set this key to be default key by clicking Yes.

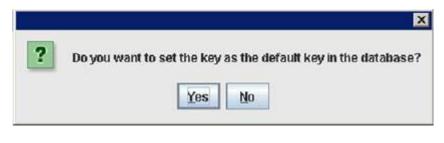


Figure 117. Setting the key as the default key

- \_\_\_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.
```



Figure 118. Restarting HTTP server

\_\_\_\_10. Verify you can access https://<your IHS host> and get IBM HTTP Server page successfully.

BM HTTP Server	+				ń	r 〒 Œ   <mark>M</mark> - Google
	I	WebSphere. softwar	e		1 12	IBM.
		IBM HTTP Se Administration	rver Version 7.0	l 💿 Support	1 D Release	1
		T	11		P	-

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.

Add	Delete Extrac	t Retrieve from port		
	1#4			
Select	Alias 👶	Issued to 🗘	Fingerprint (SHA Digest) 🗘	Expiration 🗘
You c	an administer th	e following resources:		
Г	datapower	OU=Root CA, O="DataPower Technology, Inc.", C=US	A9:BA:A4:85:BC:26:2F:5D:2A:80:93:CA:BA:F4:31:05:F2:54:14:17	Valid from Jun 12, 200 to Jun 7, 2023.
F	root	CN= OU=Root Certificate, OU=Icblade01Cell01, OU=Icblade01CellManager01, O=IBM, C=US	95:88:EC:86:57:87:C9:08:37:96:81:CF:1D:23:7C:39:24:94:D3:4A	Valid from Apr 12, 2012 to Apr 9, 2027.

Figure 120. Signer certificates

\_\_\_\_2. Input host name and port number.

General Properties
* Host <host></host>
* Port 443
SSL configuration for outbound connection CellDefaultSSLSettings
* Alias https
Retrieve signer information
Retrieved signer information
Serial number
1335323361
Issued to
CN=
Issued by
CN= cn.ibm.com
Fingerprint (SHA digest)
FC:21:E6:F1:BA:75:76:A5:31:A4:9E:3F:E5:8E:62:B8:1A:06:BC:E6
Validity period
Apr 23, 2022
Apply OK Reset Cancel

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

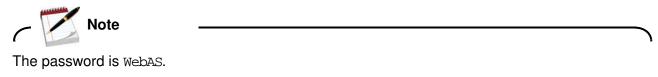
Figure 122. Starting iKeyman on IBM HTTP Server comouter

\_\_\_2. Export Deployment Manager root certificate. Open root-key.pl2 under /opt/IBM/Websphere/Appserver/profiles/Dmgr01/config/cells/cell\_name/nodes/DM manager\_name/. Key database type is PKCS12. Click OK.

Torrestant,	😤 🚯 💶	Key database information	
B-Type:	PKCS12	Key database information	
le Name:	/opt/IBM/WebSphere/AppServ	er/profiles/Dmgr01/config/cells/Icblade01Cell01/nodes/Icb	lade02Node01/key.p12
oken Label:			
		Key database content	
ersonal Certif	icates	Open	Receive
fault	Key database type	PKCS12	Delete
	File Name:	root-key.p12	Browse View/Edit
	Location:	p/cells/lcblade01Cell01/nodes/lcblade01CellManager01	Export/Import
	Location	OK Cancel	Recreate Request
		<u>Tr</u> Tencel	
			Rename
		*	S
			New Self-Signed
			Extract Certificate.

Figure 123. Export Deployment Manager root certificate

\_\_\_\_3. Introduce the password when prompted.



Password Prompt				
Password:	****			
ОК	Clear	Cancel		

Figure 124. Password prompt

\_\_\_\_4. Click Extract Certificate. Enter a name and location for the new certification file. Click OK.

1	😤 🖪 💶	Key database information		
DB-Type:	PKCS12	key uacabase mormation		
File Name:	/opt/IBM/WebSphere/AppServe	r/profiles/Dmgr01/config/cells/lcblade01Cell01/nodes/lcblade	e01CellManager01	1/root-key.p12
Token Label:				
		Key database content		
Personal Certifi	ia	New		Receive
root	Data type	Base64-encoded ASCII data		Delete
	Certificate file name:	Icblade01cert.arm	Erowse	Vie <u>w</u> /Edit
	Location:	/opt/IBM/cert	Regeneration	port/import
	Terrare and a second	OK Cancel		reate Request.
		Ziv Zancer		1
				Rena <u>m</u> e
		*		
		×.		
			1940	
			N	ew Self-Signed
				tract Certificate.

Figure 125. Extracting certificate

\_\_\_5. Export Node1 certificate. Open key.p12 under

/opt/IBM/Websphere/Appserver/profiles/Dmgr01/config/cells/cell\_name/nodes/no del\_name/. Key database type is PKCS12. Click OK.

		IBM Key Management	1 .
Cey Database File Cre	CONTRACTOR AND A CONTRACTOR		
🗅 🚅 🖬 🔀			ali na tixii na
DB-Type:		Key database information	
File Name:			
Token Label:			
		Key database content	
Personal Certificates	H	Open	Receive
	Key database type	PKCS12	Delete
	Eile Name:	key p12 Browse	Vie <u>w</u> /Edit
	Location:	1/config/cells/lcblade01Cell01/nodes/lcblade02Node01	Imgort
1.		<u>QK</u> <u>Cancel</u>	Recreate Request
			Rename
		×	
		s	
			New Self-Signed
-			Extract Certificate

#### Figure 126. Exporting Node1 certificate

\_\_\_6. Introduce the password when prompted.



The password is WebAS.

<ul> <li>Password Prompt</li> </ul>		
Password:	****	
ОК	Clear	Cancel

Figure 127. Password Prompt

¥ 🕅 💶		
	Key database information	
KCS12		
opt/IBM/WebSphere/AppServe	r/profiles/Dmgr01/config/cells/lcblade01Cell01/nodes/lcblade02Node01	l/key.p12
	Key database content	
2		Receive
	New	
Data type	Base64-encoded ASCII data	Delete
Certificate file name:	Icblade02cert.arm	ie Vie <u>w</u> /Edit
Location	/ont/IRM /cert	port/Import
Location		
	<u>OK</u> <u>Cancel</u>	reate Request.
		Rename
	*	
	2 <b>.</b> .	
		New Self-Signed.
	opt/IBM / WebSphere/AppServe	App//BM /WebSphere/AppServer/profiles/Dmgr01/config/cells/Icblade01Cell01/nodes/Icblade02Node01         Key database content         New         Data type       Base64-encoded ASCII data         Certificate file name:       Icblade02cert.arm

Figure 128. Extracting certificate

\_\_\_8. Export Node2 certificate. Open key.p12 under

/opt/IBM/Websphere/Appserver/profiles/Dmgr01/config/cells/cell\_name/nodes/no de2\_name/. Key database type is PKCS12.

		Key database information	
)B-Type: ile Name: 'oken Label:	PKCS12 /opt/IBM/WebSphere/AppServ	er/profiles/Dmgr01/config/cells/lcblade01Cell01/nodes/lcblade03Node	e01/key.p12
		Key database content	
ersonal Certif	icates	Open	Receive
lefault	Key database type	PKCS12	Delete
	Eile Name:	key.p12 Browse	. Vie <u>w</u> /Edit
	Location:	[/config/cells/lcblade01Cell01/nodes/lcblade03Node01/]	Export/Import
		<u>OK</u> <u>Cancel</u>	Recreate Request
			Rename
			New Self-Signed

#### Figure 129. Exporting Node2 certificate

\_\_\_\_9. Introduce the password when prompted.

Note	
The password is WebAS.	
ι.	ر

Password Prompt
Password: *****
OK Clear Cancel

Figure 130. Password Prompt

eceļve Qelete W/Edit
Delete
Delete
Delete
Delete
w/Edit
W/ Euron
rt/Import
te Request
ename
te

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**.

		IBM Key Management	0
ey Database <u>F</u> ile <u>C</u> r			
ב 🚘 🖬 א			
		Key database information	
B-Type:			
ile Name:			
oken Labet			
		Key database content	
Personal Certificates		145 Martin and Anno 1990 Anno 19	Receive
		Open	Delete
	Key database type	CMS 💌	Detece
	Eile Name:	plugin-key kdb Brow	vse View/Edit
	Location:	/opt/IBM/Plugins_keydb	Export/Import
	Carlson and the	OK Cancel	Recreate Request
		Quitter	netreate nequest
			Rename
		*	
			9 - 4441 - CARCES - 10
			New Self-Signed
			Extract Certificate

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.	

- Password Prompt	
Password: *****	
OK Clear Cancel	21

Figure 133. Password Prompt

	IBM Key Management – [/opt/IBM/Plugins_keydb/plugin-key	y.kdb]	
y Database <u>F</u> il	e <u>C</u> reate <u>V</u> iew <u>H</u> elp		
) 🥔 🔒	😤 🙉 💶		
DB-Type:	CMS Key database information		
File Name:	/opt/IBM/Plugins_keydb/plugin-key.kdb		
Token Label:			
	Key database content		
Signer Certifica	tes	-	<u>A</u> dd
-	Open		Delete
Eile Name:	Icblade01cert.arm		View/Edit
	/opt/IBM/cert		
	OK Cancel		Extract
			Populate
			Rename
		3 <b>m</b>	
		*	
	tion has successfully completed!		

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

Figure 134. Signer certificates

\_\_\_\_14. Enter a label and click **OK**.

-	IBM Key Management – [/opt/IBM/Plugins_keydb/plugin-key.kdb]		
	le <u>C</u> reate <u>V</u> lew <u>H</u> elp		
🗅 🧭 日	😤 🚯 💶		
	Key database information		
DB-Type:	СМ5		
File Name:	/opt/IBM/Plugins_keydb/plugin-key.kdb		
Token Label:			
	Key database content		
Signer Certifica	ites	-	<u>A</u> dd
-	Enter a Label		Delete
a second s	a label for the certificate:		Vie <u>w</u> /Edit
	OK Cancel		Extract
			Populate
			Rena <u>m</u> e
	*		
		-	
	tion has successfully completed!		

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.

	IBM Key Management – (/opt/IBM/Plugins_keydb/plugin-key.kdb)		
	e <u>C</u> reate <u>View</u> <u>Help</u>		
🗅 🎽 🔒	😤 🚯 🗔		
Sector Marcola	Key database information		
DB-Type:	CMS		
File Name:	/opt/IBM/Plugins_keydb/plugin-key.kdb		
Token Label:			
	Key database content		
Signer Certificat	les	-	Add
Icblade01cert Icblade02cert			Delete
Icblade03cert			Vie <u>w</u> /Edit
			Extract
			Populate
			Rena <u>m</u> e
	*		
	· · · · · · · · · · · · · · · · · · ·		
		-	
he requested ac	tion has successfully completed!		

Figure 136. Adding two nodes certificate

\_\_\_\_16. Restart IBM HTTP Server.



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/Lo tusConnections-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"</pre>
```

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



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**



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:

🛃 Basics		word and other basic infor check the 'Advanced' ch		w person. To	view/edit additional
🛁 Mail 🏠 Address	Registration Serve		Lastina	100 <i>0</i> 1	Short name:
D Info			ReplyT		ReplyTo
Groups	Password	Majl system:	Explicit	policy:	
3 Roaming	passw0rd	Lotus Notes	(None	Available)	2
🔮 Other	Password Options	<u></u>	Delso		cy assigned to this
Advanced [ legistration Queu	Ena <u>b</u> le roaming fo ↓ Create a <u>N</u> otes ID New <u>Person</u> te (local):			oli <u>cy</u> Synopsis. I <b>e</b>	
- 1	Create a <u>N</u> otes ID New <u>Person</u> e (local):	for this person	Import Tegt Fi		Date ^

Figure 138. Register Person: ReplyTo

\_\_\_5. The mail domain value can be set to the real domain you use.

Mail       Internet address       Internet Domain         Address       ReplyTo@us.ibm.com       us.ibm.com         ID Info       Address name format       Separator         ID Info       FirstName LastName       None         Supply internet address format settings for the selected people or person. The Internet address format component us ib using the person's name, the internet domain and internet address format component us be unique in the address book.	
Address       Address         ID Info       Address name format         Separator       FirstName LastName         Supply internet address format settings for the selected people or person. The Internet address format component of the using the person's name, the internet domain and internet address format component of the using in the using the person's name.	
Address name format       Separator         Broups       FirstName LastName       None         Supply internet address format settings for the selected people or person. The Internet address format component or person in the address format component or person. The Internet address format component or person.       The Internet address format component or person.	
FirstName LastName         Image: None           Boaming         Supply internet address format settings for the selected people or person. The Internet address format component of the people or person is name, the internet domain and internet address format component of the people or person.	
Supply internet address format settings for the selected people or person. The Internet address format component of the unique in the person's name, the internet domain and internet address format component of the unique in the orderes have been address.	
created using the person's name, the internet domain and internet address format compone	nents, It
Other	
Registration Queue (local):	te ^

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:

General Properties	
Scope	
cells:lcblade01Cell01	
Provider	
Built-in Mail Provider	
Name	
Icreplyto	
· JNDI name	
mail/replyto	
in any reply to	
Description	
Category	
Enable debug mode	
Enable strict Internet address parsing	

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

Incoming Mail Properties	
Server	
cn.ibm.com	
* Protocol	
imap 💟	
User	
ReplyTo	
Password	
•••••	
Verify Password	
••••••	
•••••	
Apply OK Reset Cancel	
Incoming Mail Departure	

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**.

📕 IBM Domain - <ibm domain=""> 🛛 🚺 🔄 Re</ibm>	plyTo - Inbox 🗙		
People & Groups Files Server Me Server: <server> Release 8.5.2 on Window</server>	essaging Replication C	ionfiguration	
<ul> <li>Server</li> <li>Current Server Document</li> <li>All Server Documents</li> <li>Configurations</li> <li>Connections</li> <li>Programs</li> <li>External Domain Network Inf</li> <li>Messaging</li> <li>Messaging Settings</li> <li>Domains</li> <li>Connections</li> <li>Connections</li> <li>Connections</li> <li>Internet Sites</li> <li>File Identifications</li> </ul>	BAdd Configuration Server Name <server name=""></server>	Edit Configuration     Param	-

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.

Bas c: Securt	y Cliert Upgrade	Router/SMTP	M ME NCTES	IN Settings Lo	u: Note: IVAP	SNMP Activity Logging Diagnostics Administration
as cal Result	tions and Controls	Message Dist	laimers   Mess	age Tracking   Ma	assaga Raca I   Ari	vancer
testrictums   Sh	MTP Inbound Cunt	ruls   SMTP Outbo	unic Cuntrols	De ivery Curtruls	Transfer Curizols	Rules
		~	~	~	BEnable Rule	

Figure 143. Editing configuration

\_\_\_\_5. Click **New Rule** and create a rule that moves emails that contain <code>lcreplyto\_</code> in the **To** field to the mailbox, for example:

This rule is	: • On • Off				
Specify C	onditions				
Create: 🕫	Condition C Exception				
AND	sender	-	contains	•	
/hen mai	I messages arrive that meet t	nese conditions:			
When: To conta	ins Icreplyto_				Add
					Remove
					Remove All
	ctions is message	-			 
ournal thi 'erform th	is message e following actions:	3			 
journal thi Perform th	is message	-			Add Action
Perform th	is message e following actions:	-			Add Action Remove
journal thi Perform th	is message e following actions:	-			

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.

v U iom's Directory	OAdd Person OE	dit Person 🐽 Delete Person 🕕 Copy to Personal Address Book
V & People	Organization	Name 🔿
<ul> <li>by Organization</li> <li>A Groups</li> <li>MaiHn Databases and R</li> <li>Policies</li> <li>Policies</li> <li>Dynamic Policies</li> <li>by Person/Group</li> <li>by Category</li> <li>Settings</li> <li>Certificates</li> <li>Alt Language Info</li> <li>Deny Access Groups</li> </ul>	<b>∀i</b> bm	Aamir_000_000 Aamir_001_000 Aamir_002_000 Aamir_003_000 Aamir_004_000 Aamir_005_000 Aamir_006_000 Aamir_008_000 Aamir_009_000 Abalo_000_001 admin
I		ReptyTo

Figure 145. Editing the account of the user

\_\_\_7. Click **Open Mail File**. Select the **View > Agents** menu item.

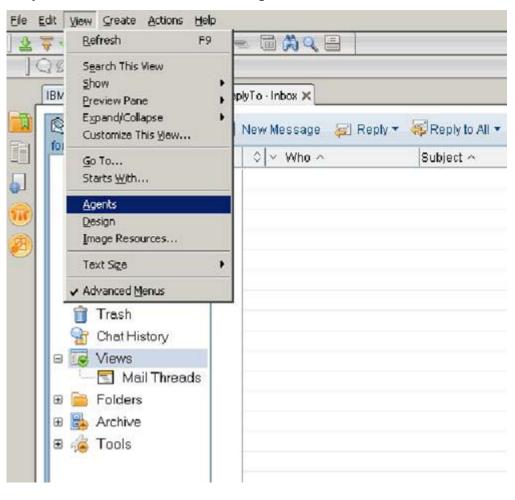


Figure 146. Selecting the View > Agents

\_\_\_\_8. Click New Agent.

8	New Agent	🖌 Enabl	e 🛞 Disable	9 Sign	
	Name 🗘		Alias 🗘	Last Modified 🗘	Last Modifie
۲	LocalSchedul	edArchive		09/14/2011 05:43:17	Lotus Notes Te
	Lotus iNot_es	Edit Offline (	Lotus iNotes\Edit 0	09/14/2011 05:43:28	Lotus Notes Te
	Lotus iNot_es	Open Mail F	Lotus iNotes\Open	09/14/2011 05:43:28	Lotus Notes To
	Lotus iNot_es	Synchronize	iwa_SyncJournal	09/14/2011 05:43:31	Lotus Notes Te
۲	LotusInboxCle	anup		09/14/2011 05:43:17	Lotus Notes Te
8	OutOfOffice		OutOf0ffice	09/14/2011 05:43:19	Lotus Notes Te
8	Update Tasks	0	Update Tasks	09/14/2011 05:43:21	Lotus Notes Te
	(Add Recipien	ts to new Gra	Add Recipients\to r	09/14/2011 05:43:13	Lotus Notes To
	(Add Recipien	ts to new Gra	NewGroup	09/14/2011 05:43:13	Lotus Notes To
	(AddSenderTo	AddressBoo		09/14/2011 05:43:22	Lotus Notes To

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
```

gent			• ? X	Untitled (Agent) : (0	Options)	
Name Comment			XK	Run Client Option Public	LotusScript	2
Options	Store I	d OPrivate search in search bar menu highlights in document background client thread				
ĺ	Trigger Action me	<ul> <li>On event O On sch enu selection</li> </ul>	edule •			
Runtime		Edit settings				
	Target	All selected documents nay be set via Document Set				

Figure 148. Adding the LotusScript

Objects Reference	replyto (Agent) :	Initialize	
replyto (Agent)     Ocument Selection	Run Client	LotusScript	-
<ul> <li>Document Selection</li> <li>(Options)</li> <li>(Declarations)</li> <li>Initialize</li> <li>Terminate</li> </ul>	Dim db As Notes Dim view As Note Dim doc As Note Bet db = session Bet view = db.ge Bet doc = view.G While Not(doc Is Call doc.Putin	esView isDocumen: CurrentDatabase tView("\$Sent") ietFirstDocument()	

Figure 149. Ending Subinitialize

\_\_\_\_10. Click **Yes** to save your changes.

IBM Domino Admi	nistrator		X
Do you want to sa	ive your chan	nges?	
<u>[ Y</u> es	No	Cancel	1

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.

Name Comment	replyto
	Shared      Private     Store search in search bar menu
Options	Store highlights in document  Run in background client thread
Options	Contraction of the second s

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.

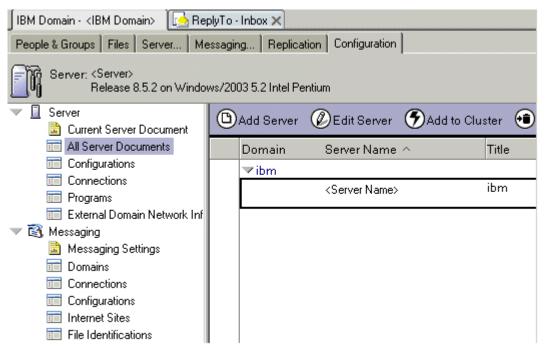


Figure 153. Fixing the privileges and permissiones.

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

IBM Donver	Peptro Hoter X 25 Serves Barres		
🕽 Sans & Chine 🛞 Creat	web OEvensne Notes Certificatelijo 🛞 Cancel		
Server:	Store of C		
laiici   Becurby   Plata .   S	ener Taska   Internet Phylocola    MTXa   Macallaneous    Transactional &a	pging   Bhared Mail   DADS   Letus Traveler   Administration	
Advenue ou brachaire.		Programmability Hushielians	1.00
Full Annans administrations:		Cips or nut units stricted, mattends and against one "	
Administrators	<sup>7</sup> administre. (B)	Sign agents to sur on bolicalit of accessors allow.	
Defabace Administrations	7.m	Signiagentos: XPages konun se behalt of the "	
Full Remote Consele Administrators	<sup>2</sup> .81	Sign or nancestricted Lotui Script Dava agente	
Verw-only Administrators	<sup>2</sup> .00	Plut Simple and Formula agents	
Eysfern Adrian stellar.	'.m	Gign script is transes to run on behalf al som cove	
Fashidad System Advisionator	1.m	The Vallowing terforge are industries at all Deriving St. They are used by compatibility with path remote some	
Featurted System Commands:	**	Plus restricted JavaStreeurop#COM	
Obsystem an of Dowleto E Administer server from a bipaster:	7.m	Ren unerhichet Jans/JanscrptCOM	

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/Lo tusConnections-config/ with you 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



Assume that WebSphere edge proxy is installed successfully.

- \_\_1. Open the ibmproxy.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

- \_\_\_\_I. 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/Lo
tusConnections-config.xml.

<dynamicHosts enabled="true">

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

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:



Figure 155. Starting iKeyman

\_\_\_b. Open plugin-key.kdb under /opt/IBM/Plugins\_keydb/.

נ 🚘 🖬 🎇	Net Link		
		Key database information	
B-Type: le Name:			
oken Labet			
		Key database content	
ersonal Certificates	-	Open	Receive
	Key database type	CMS	Defete
	Eile Name:	plugin-key.kdb	rowse View/Edit
	Location:	/opt/IBM/Plugins_keydb	Export/Import
		<u>QK</u> <u>Cancel</u>	Recreate Request
			Rename
		*	New Self-Signed.
			Extract Certificate

\_\_\_\_4. Introduce the password when prompted.

✓ Note		
The password is WebAS.		
	Password Prompt         Password:       ******         OK       Clear       Cancel	

Figure 157. Password Prompt

Figure 156. IBM Key Management

5. Click Extract Certificate. Enter a name and location for the new certification file. Click OK. Key Database File Create View Help 🗅 🚅 🔒 🌺 💽 Key database information DB-Type: CMS File Name: /opt/IBM/Plugins\_keydb/plugin-key.kdb Token Label: Key database content Personal Certifica Receive... \* WebSphere Plug Delete Data type Base64-encoded ASCII data • View/Edit... ihscert.arm Certificate file name: Erowse .... /opt/IBM/cert port/Import... Location: Cancel 0K reate Request... Rename k New Self-Signed... Extract Certificate... The requested action has successfully completed!

Figure 158. Extracting certificate

- \_\_\_6. Add the certificate inscert.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.

		IBM Key Management		4
ey Database <u>F</u> ile <u>C</u> i	reate <u>V</u> iew <u>H</u> elp			
🗅 🚅 🖬 😫				
	a new man	Key database information		
DB-Type:		Key uttabase information		
ile Name:				
oken Label:				
		Key database content		
Signer Certificates	18-07			Add
signer certaincates	-	Open		77 as deline
	Key database type	CMS		Delete
	Eile Name:	proxykey.kdb	Erowse	Vie <u>w</u> /Edit
	Location:	/opt/IBM/cert		Extract
		QK Cancel		Populate
	L.			Rename

Figure 159. Opening kdb file with IBM Key Management

\_\_\_\_9. Introduce the password when prompted.

Note	
The password is WebAS.	

– Pass	sword Pi	rompt
Password:	****	
ОК	Clear	Cancel

Figure 160. Password Prompt

- \_\_\_\_10. Select Signer Certificates.
- \_\_\_\_11. Click Add.
- \_\_\_\_12. Open the IBM HTTP Server certificate.

#### \_\_\_ 13. Click **OK**.

	le <u>C</u> reate <u>V</u> iew <u>H</u> elp	IBM Key Management – [/opt/IBW/cert/proxykey.kdb		
🗅 🎏 日	😤 🚯 💶			
		Key database information		
DB-Type:	CMS			
File Name:	/opt/IBM/cert/proxykey.kdb			
Token Label:				
		Key database content		
Signer Certifica	ates		-	<u>A</u> dd
lcblade01	2	Open -		Delete
	Eile Name:	ihscert.arm	Erowse	View/Edit
	Location:	/opt/IBM/cert		view/Euro
		<u>OK</u> Cancel		Extract
				Populate
		*		Rename

Figure 161. Opening the certificate with the IBM Key Management

\_\_\_14. Enter a label.

		IBM Key Management. – [/opt/IBM/cert/proxykey.kdb]	
Key Database <u>F</u> i	ile <u>C</u> reate ⊻iew <u>H</u> elp		
🗅 🥔 日	R 🛃		
		Key database information	
DB-Type:	CMS		
File Name:	/opt/IBM/cert/proxykey	kdb	
Token Label:			
		Key database content	
Signer Certific	ates		▼ <u>A</u> dd
lcblade01		Enter a Label	Delete
		Enter a label for the certificate:      Icblade01	Vie <u>w</u> /Edit
		QK Cancel	Extract
		Populate	
			Rename
		*	
			1

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**

" Human Inten ale Device Access	chables ge		DISADIEU	LOCAI 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.

# IIV.